+GF+

Product range

PROGEF

Polypropylene welded system



PROGEF Standard – System specification

Material	Material	Beta PP-H 100 (Beta Polypropylene Homopolymer)
	Colour	RAL 7032 pebble grey
	Density	~0.90 g / cm³ (ISO 1183 / ASTM D 792)
	Thermal expansion coefficient	0.16-0.18 mm / mK (DIN 53752)
	E-modulus	1300 N / mm² (ISO 527 / ASTM D 790) 900 N / mm² (ISO 527 / ASTM D 790)
	Thermal conductivity	0.23 W / mK (EN 12664)
	Surface resistivity	› 10^{16} Ω (IEC 60093)
Dimension	d16-d500 in accordance to EN ISO 15494	
Pressure rating	Pipes / fittings / diaphragm and ball valves	d16-d500 SDR11, PN10, c = 2.0
		d50-d315 SDR17.6, PN6, c = 2.0
	Butterfly valves	d63-d225 PN10, d280-d315 PN 8
Temperature rating	From 0 °C to 80 °C (32 °F – 176 °F)	
Production	Fittings	Injection moulded or segment welded
	Pipes	Extruded
	Valves	Injection moulded
Product marking	All components are embossed with a permanent identification during the production process to ensure full traceability.	Lot No
		Material
		Dimension
		Pressure rating
Testing and inspection (EN ISO 15494)	Visual inspection	
	Surface finish	
	Dimension tolerance	
	Pressure testing	
	Full product range passed the Initial Type Test (ITT)	
Material- and product approvals / conformance [1]	FDA CFR 21 177.1520	
	USP 25 class VI (physiological non-toxic)	
	DIBt (Z-40.23-4, Z-40.34-264, Z – 40.23-265)	
	DNV (K-2630, K – 2636)	
	Loyd's register (01 / 20030(E1))	
Fusion technology	Socket fusion (DVS 2207-11)	d16-d110
	IR Plus, infrared fusion (DVS 2207-6)	d20-d315
	Butt fusion (DVS 2207-11)	d20-d500
Documentation[2]	EN 10204 2.2 / EN 10204 3.1	
Packaging	Pipes, fittings and valves bulk bagged	
Labeling	Brand name	
	Product description	
	Article number	
	Material	
	Dimension	
	Standards and approvals	
Main applications	PROGEF has been relied to be highly resistant to impact, abrasion and many chemicals. Suitable for industrial applications in chemical production, chemical distribution, galvanisation and power stations.	

[1] For the thermoplastic material only
[2] On request

PROGEF Plus – System specification

Material	Material	Beta PP-H 100 (Beta Polypropylene Homopolymer)
	Colour	RAL 7032 pebble grey
	Density	~0.90 g / cm³ (ISO 1183 / ASTM D 792)
	Thermal expansion coefficient	0.16-0.18 mm / mK (DIN 53752)
	E-modulus	1300 N / mm² (ISO 527 / ASTM D 790) 900 N / mm² (ISO 527 / ASTM D 790)
	Thermal conductivity	0.23 W / mK (EN 12664)
	Surface resistivity	› 10^{16} Ω (IEC 60093)
Dimension	d20-d315 in accordance to EN ISO 15494	
Pressure rating	Pipes / fittings / diaphragm and ball valves	d20-d315 SDR11, PN10, c = 2.0
		d50-d315 SDR17.6, PN6, c = 2.0
	Butterfly valves	d63-d225, PN10
Temperature rating	From 0 °C to 80 °C (32 °F – 176 °F)	
Production	Fittings / valves	Injection moulded
	Pipes	Extruded
	Treatment	Every component is specially cleaned according to a process defined by GF. Pipes and fittings are silicon-, oil- and dustfree. Additional specifications for valves. Products especially suitable for the paint and microelectronics industry.
Surface condition	Inner surface Ra m 1.0 µm (39 µin) for components d20-d110 Inner surface Ra m 1.5 µm (59 µin) for components d125-d 315	
Product marking	All components are embossed with a permanent identification during the production process to ensure full traceability.	Lot No
		Material
		Dimension
		Pressure rating
Testing and inspection (EN ISO 15494)	Visual inspection	
	Surface finish	
	Dimension tolerance	
	Pressure testing	
	Full product range passed the Initial Type Test (ITT)	
Material- and product approvals / conformance [1]	FDA CFR 21 177.1520	
	USP 25 class VI (physiological non-toxic)	
Fusion technology	IR Plus, infrared fusion (DVS 2207-6)	d20-d225
	Butt fusion (DVS 2207-11)	d20-d315
Documentation[2]	EN 10204 2.2 / EN 10204 3.1	
Packaging	Pipes, fittings and valves, each component double bagged	
Labeling	Brand name	
	Product description	
	Article number	
	Material	
	Dimension	
	Standards and approvals	
Main applications	Due to the special treatment, PROGEF Plus piping systems are suitable for economical delivery of ultrapure water in semiconductor and TFT / FPD applications and ensure high qualitiy in the paint industry. Highly resistant to impact, abrasion and many chemicals.	

[1] For the thermoplastic material only
[2] On request

PROGEF Natural – System specification

Material	Material	Polypropylene random copolymer
	Colour	pigment-free, transparent
	Density	~0.90 g / cm^3 (ISO 1183 / ASTM D 792)
	Thermal expansion coefficient	0.15 mm / mK (DIN 53752)
	E-modulus	900 N / mm^2 (ISO 527 / ASTM D 790)
	Thermal conductivity	0.23 W / mK (EN 12664)
	Surface resistivity	› 10^{16} Ω (IEC 60093)
Dimension	d20-d110 in accordance with EN ISO 15494	
Pressure rating	Pipes / fittings / diaphragm valves:	d20-d63 SDR11, PN10, c = 2.0
		d75-d110 SDR17.6, PN6, c = 2.0
Temperature rating	From 0 °C to 80 °C	
Production	Fittings / valves: injection moulded	Pipes: extruded
Surface condition	Inner surface Ra < 1 µm (39 µin)	
Product marking	Fittings, pipes and valves are embossed with a permanent identification during the production process to ensure full traceability.	
	Process to ensure full traceability	Lot No
		Material
		Dimension
		Pressure rating
Testing and inspection (EN ISO 15494)	Inclusions	
	Visual inspection	
	Surface finish	
	Dimension tolerance	
	Pressure testing	
	Full product range passed the Initial Type Test (ITT)	
Material- and product approvals [1]	FDA CFR 21 177.1520	
	USP 25 class VI (physiological non-toxic)	
Fusion technology	BCF Plus, bead and crevice free fusion	
	IR Plus, infrared fusion (DVS 2207-6)	
	Butt fusion (DVS 2207-11)	
Documentation[2]	Certificate of conformance with FDA, USP	
	EN 10204 2.2	
	EN 10204 3.1	
	ASME BPE	
Packaging	Pipes	Capped & single bagged
	Fittings / valves	Single bagged
Labeling	Brand name	
	Product description	
	Code number	
	Material	
	Dimension	
	Approvals	
Main applications	Uses include cost effective, pure distribution of DI-water and critical biological fluids where chemical sanitisation is needed. **B**ead and **C**revice **F**ree jointing and minimal metallic leachout ensure the highest product quality. Highly resistant to impact, abrasion and many chemicals make it ideal for slurries transportation in the semiconductor industry.	

[1] For the thermoplastic material only
[2] On request

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PROGEF Standard metric



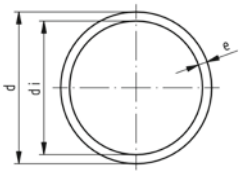
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Pipes





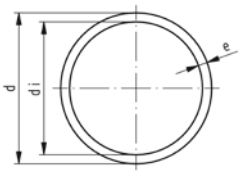
PROGEF Standard pipe SDR7,4/PN16/S3,2

Model:

- Material: PP-H - homopolymer
- Dimension: acc. to DIN 8077/78
- Colour: light grey RAL 7032
- Pipe length: 5000mm, with plain ends
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

d (mm)	PN (bar)	Code	Weight (kg/m)	e (mm)
16	16	**167 481 027**	0.095	2.2
20	16	**167 481 028**	0.148	2.8
25	16	**167 481 029**	0.230	3.5





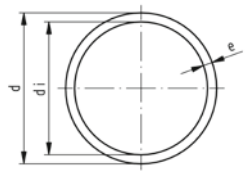
PROGEF Standard pipe SDR11/PN10/S5

Model:

- Material: PP-H - homopolymer
- Dimension: acc. to DIN 8077/78 and DIN EN 15494
- Colour: light grey RAL 7032
- Pipe length: 5000mm, with plain ends

d (mm)	PN (bar)	Code	Weight (kg/m)	di (mm)	closest inch (inch)	e (mm)
16	10	**167 480 710**	0.080	12.4	⅜	1.8
20	10	**167 480 711**	0.107	16.2	½	1.9
25	10	**167 480 712**	0.164	20.4	¾	2.3
32	10	**167 480 713**	0.261	26.2	1	2.9
40	10	**167 480 714**	0.412	32.6	1 ¼	3.7
50	10	**167 480 715**	0.638	40.8	1 ½	4.6
63	10	**167 480 716**	1.010	51.4	2	5.8
75	10	**167 480 717**	1.410	61.4	2 ½	6.8
90	10	**167 480 718**	2.030	73.6	3	8.2
110	10	**167 480 719**	3.010	90.0	4	10.0
125	10	**167 480 720**	3.910	102.2	4 ½	11.4
140	10	**167 480 721**	4.870	114.6	5	12.7
160	10	**167 480 722**	6.380	130.8	6	14.6
180	10	**167 480 723**	8.070	147.2	7	16.4
200	10	**167 480 724**	9.950	163.6	8	18.2
225	10	**167 480 725**	12.600	184.0	9	20.5
250	10	**167 480 726**	15.500	204.6	10	22.7
280	10	**167 480 727**	19.400	229.2	11	25.4
315	10	**167 480 728**	24.600	257.8	12	28.6
355	10	**167 480 729**	31.200	290.6	14	32.2
400	10	**167 480 730**	39.600	327.4	16	36.3
450	10	**167 480 731**	50.200	368.2	18	40.9
500	10	**167 480 732**	63.300	409.2	20	45.4





PROGEF Standard pipe
SDR17,6/PN6/S8,3

Model:

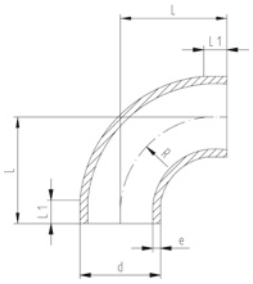
- Material: PP-H - homopolymer
- Dimension: acc. to DIN 8077/78 and DIN EN 15494
- Colour: light grey RAL 7032
- Pipe length: 5000mm, with plain ends

d (mm)	PN (bar)	Code	Weight (kg/m)	e (mm)
25	6	**167 480 676**	0.132	1.8
32	6	**167 480 678**	0.172	1.9
40	6	**167 480 679**	0.273	2.3
50	6	**167 480 680**	0.422	2.9
63	6	**167 480 681**	0.659	3.6
75	6	**167 480 682**	0.935	4.3
90	6	**167 480 683**	1.330	5.1
110	6	**167 480 684**	1.990	6.3
125	6	**167 480 685**	2.550	7.1
140	6	**167 480 686**	3.200	8.0
160	6	**167 480 687**	4.170	9.1
180	6	**167 480 688**	5.250	10.2
200	6	**167 480 689**	6.500	11.4
225	6	**167 480 690**	8.190	12.8
250	6	**167 480 691**	10.100	14.2
280	6	**167 480 692**	12.600	15.9
315	6	**167 480 693**	16.000	17.9
355	6	**167 480 694**	20.300	20.1
400	6	**167 480 695**	25.700	22.7
450	6	**167 480 696**	32.500	25.5
500	6	**167 480 697**	40.200	28.4

Butt fusion fittings SDR 11







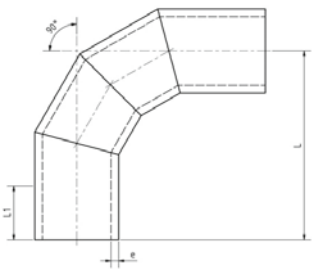
PROGEF Standard Bend 90°
SDR11/PN10

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

* Material:PP-R

	d (mm)	PN (bar)	FM	Type	Code	Weight (kg)	L (mm)	L1 (mm)	R (mm)	e (mm)
	20	10	IR	1	**727 018 606**	0.008	38	23	15.00	1.90
	25	10	IR	1	**727 018 607**	0.013	42	23	19.00	2.30
	32	10	IR	1	**727 018 608**	0.022	46	22	24.00	2.90
	40	10	IR	1	**727 018 609**	0.040	51	21	30.00	3.70
	50	10	IR	1	**727 018 610**	0.067	58	21	37.00	4.60
	63	10	IR	1	**727 018 611**	0.117	66	21	45.00	5.80
	75	10	IR	2	**727 018 622**	0.178	75	21	71.25	7.25
	90	10	IR	2	**727 018 623**	0.308	90	22	85.50	8.75
	110	10	IR	2	**727 018 624**	0.556	110	25	104.50	10.60
	125	10	IR	2	**727 018 315**	0.952	145	34	127.00	11.40
	140	10	IR	2	**727 018 316**	1.319	162	38	142.00	12.70
	160	10	IR	2	**727 018 317**	1.933	183	40	162.00	14.60
	180	10	IR	2	**727 018 318**	2.621	200	38	182.00	16.40
	200	10	IR	2	**727 018 319**	3.552	220	40	202.00	18.20
	225	10	IR	2	**727 018 320**	5.003	245	41	228.00	20.50
	250	10	IR	2	**727 018 321**	7.080	280	51	253.00	22.70
	280	10	IR	2	**727 018 322**	9.823	310	52	283.00	25.40
	315	10	IR	2	**727 018 323**	14.024	350	61	318.00	28.60
*	355	10		2	**727 018 524**	16.400	345	70	330.00	32.20
*	400	10		2	**727 018 525**	22.220	365	70	350.00	36.30
*	450	10		2	**727 018 526**	32.560	425	70	400.00	40.90
*	500	10		2	**727 018 527**	44.840	470	90	445.00	45.40

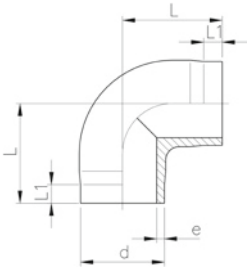


Bend 90°, PP-H S5/SDR11

- big dimensions on request
- For butt- and electro fusion
- Reduction factor = 0,8

d (mm)	Code	L (mm)	L1 (mm)	e (mm)
110	**700 649 384**	315	150	10.0
125	**700 649 385**	338	150	11.4
140	**700 649 386**	360	150	12.8
160	**700 649 387**	390	150	14.6
180	**700 649 388**	420	150	16.4
200	**700 649 389**	450	150	18.2
225	**700 649 390**	488	150	20.5
250	**700 649 391**	625	250	22.8
280	**700 649 392**	670	250	25.5
315	**700 649 393**	773	300	28.7
355	**700 649 394**	833	300	32.3
400	**700 649 395**	900	300	36.4





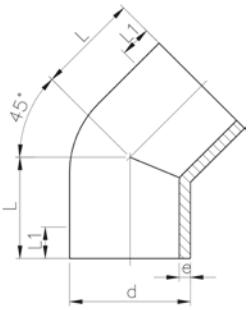
PROGEF Standard Elbow 90°
SDR11/PN10

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

d (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
20	10	IR	**727 108 506**	0.008	38	25	1.9
25	10	IR	**727 108 507**	0.012	42	26	2.3
32	10	IR	**727 108 508**	0.022	46	27	3.0
40	10	IR	**727 108 509**	0.045	51	22	3.7
50	10	IR	**727 108 510**	0.080	58	23	4.6
63	10	IR	**727 108 511**	0.138	66	21	5.8





PROGEF Standard Elbow 45°
SDR11/PN10

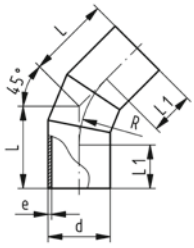
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible
- Long version for d250, d280 and d315

1) Material:PP-R

	d (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
	20	10	IR	**727 158 506**	0.006	32	24.0	2.1
	25	10	IR	**727 158 507**	0.010	34	25.0	2.3
	32	10	IR	**727 158 508**	0.021	36	25.0	3.0
	40	10	IR	**727 158 509**	0.033	39	25.0	3.7
	50	10	IR	**727 158 510**	0.054	42	26.0	4.6
	63	10	IR	**727 158 511**	0.097	47	29.0	5.8
	75	10	IR	**727 158 512**	0.137	49	29.0	6.8
	90	10	IR	**727 158 513**	0.222	57	34.0	8.2
	110	10	IR	**727 158 514**	0.412	70	43.0	10.0
	125	10	IR	**727 158 515**	0.570	79	48.0	11.4
	140	10	IR	**727 158 516**	0.854	88	55.0	12.7
	160	10	IR	**727 158 517**	1.256	100	60.0	14.6
	200	10	IR	**727 158 519**	2.448	124	75.0	18.2
	225	10	IR	**727 158 520**	3.495	140	85.0	20.5
1	250	10	IR	**727 158 521**	7.890	225	133.0	22.7
1	280	10	IR	**727 158 522**	10.170	235	143.0	25.4
1	315	10	IR	**727 158 523**	11.690	255	154.0	28.6



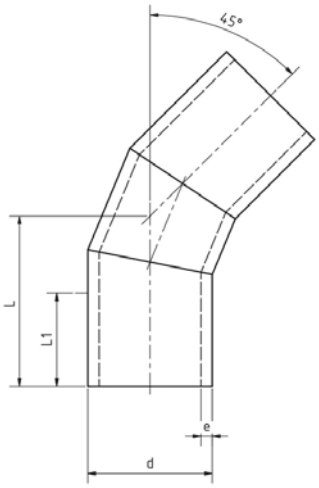


PROGEF Standard Bend 45° SDR11/PN10

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- Production process: segment welded
- Segment-welded fittings have a pressure reduction factor of 0.8

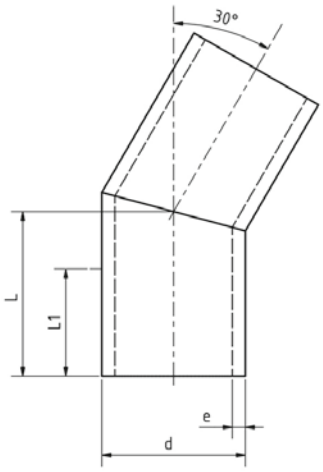
d (mm)	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	R (mm)	e (mm)
355	8	**727 158 524**	32.300	520	300	532.5	32.2
400	8	**727 158 525**	43.200	548	300	600.0	36.3
450	8	**727 158 526**	57.700	580	300	675.0	40.9
500	8	**727 158 527**	87.200	665	350	750.0	45.4



PROGEF Elbow 45°, PP-H S5/SDR11

- big dimensions on request
- For butt- and electro fusion
- Reduction factor = 0,8

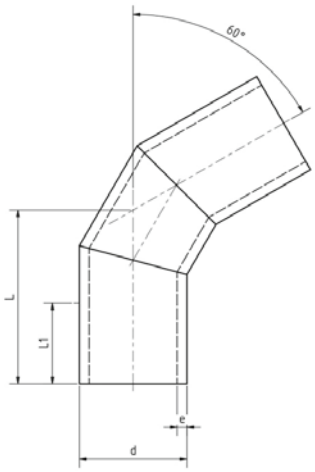
d (mm)	Code	L (mm)	L1 (mm)	e (mm)
110	**700 649 444**	218	150	10.0
125	**700 649 445**	228	150	11.4
140	**700 649 446**	237	150	12.8
160	**700 649 447**	249	150	14.6
180	**700 649 448**	262	150	16.4
200	**700 649 449**	274	150	18.2
225	**700 649 450**	290	150	20.5
250	**700 649 451**	412	250	22.8
280	**700 649 452**	424	250	25.5
315	**700 649 453**	498	300	28.7



PROGEF Elbow 30°, PP-H S5/SDR11

- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

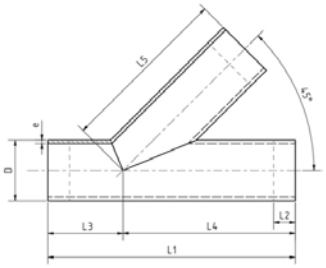
d (mm)	Code	SP	L (mm)	L1 (mm)	e (mm)
110	**700 649 469**	0	194	150	10.0
125	**700 649 470**	0	200	150	11.4
140	**700 649 471**	0	206	150	12.8
160	**700 649 472**	0	214	150	14.6
180	**700 649 473**	0	222	150	16.4
200	**700 649 474**	0	230	150	18.2
225	**700 649 475**	0	241	150	20.5
250	**700 649 476**	0	350	250	22.8
280	**700 649 477**	0	362	250	25.5
315	**700 649 478**	0	428	300	28.7
355	**700 649 479**	0	443	300	32.3
400	**700 649 480**	0	461	300	36.4



PROGEF Elbow 60°, PP-H S5/SDR11

- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

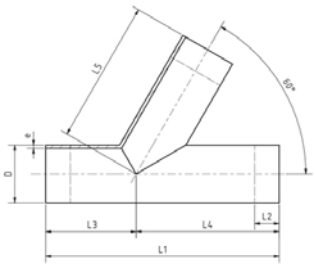
d (mm)	Code	L (mm)	L1 (mm)	e (mm)
110	**700 649 420**	245	150	10.0
125	**700 649 421**	258	150	11.4
140	**700 649 422**	271	150	12.8
160	**700 649 423**	288	150	14.6
180	**700 649 424**	305	150	16.4
200	**700 649 425**	323	150	18.2
225	**700 649 426**	345	150	20.5
250	**700 649 427**	466	250	22.8
280	**700 649 428**	492	250	25.5
315	**700 649 429**	576	300	28.7
355	**700 649 430**	608	300	32.3
400	**700 649 431**	646	300	36.4



PROGEF Branch 45° PP-H S5/SDR11

- For butt- and electro fusion
- Reduction factor = 0,5

d (mm)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	e (mm)
110	**700 649 636**	0	2.6	520	150	179.2	340.7	340.7	10.0
125	**700 649 637**	0	3.4	520	150	161.1	358.8	358.8	11.4
140	**700 649 638**	0	4.7	570	150	173.0	397.0	397.0	12.8
160	**700 649 639**	0	6.9	640	150	190.8	449.1	449.1	14.6
180	**700 649 640**	0	9.7	700	150	202.7	497.2	497.2	16.4
200	**700 649 641**	0	13.5	800	150	238.5	561.4	561.4	18.2
225	**700 649 642**	0	17.5	800	150	208.4	591.6	591.6	20.5
250	**700 649 643**	0	26.4	1000	250	298.2	701.7	701.7	22.8
280	**700 649 644**	0	33.7	1000	250	262.0	738.0	738.0	25.5
315	**700 649 645**	0	54.1	1300	300	399.7	900.2	900.2	28.7
355	**700 649 646**	0	78.9	1500	300	471.4	1028.5	1028.5	32.3
400	**700 649 647**	0	102.3	1500	300	417.1	1082.8	7082.8	36.4

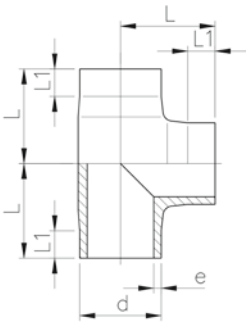


PROGEF Branch 60° PP-H S5/SDR11

- For butt- and electro fusion
- Reduction factor = 0,5

d (mm)	Code	SP	L1 (mm)	L2 (mm)	e (mm)
110	**700 649 660**	0	150	520	10.0
125	**700 649 661**	0	150	520	11.4
140	**700 649 662**	0	150	570	12.8
160	**700 649 663**	0	150	640	14.6
180	**700 649 664**	0	150	700	16.4
200	**700 649 665**	0	150	800	18.2
225	**700 649 666**	0	150	800	20.5
250	**700 649 667**	0	250	1000	22.8
280	**700 649 668**	0	250	1000	25.5
315	**700 649 669**	0	300	1300	28.7
355	**700 649 670**	0	300	1500	32.3
400	**700 649 671**	0	300	1500	36.4





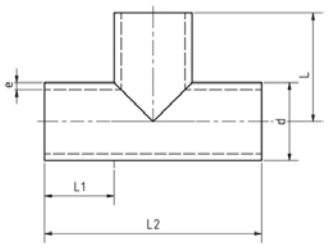
PROGEF Standard Tee 90° equal SDR11/PN10

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

[1] Material: PP-R

	d (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
	20	10	IR	**727 208 506**	0.011	38	21	2.10
	25	10	IR	**727 208 507**	0.018	42	21	2.55
	32	10	IR	**727 208 508**	0.032	46	21	3.15
	40	10	IR	**727 208 509**	0.062	51	23	3.70
	50	10	IR	**727 208 510**	0.105	58	22	4.60
	63	10	IR	**727 208 511**	0.186	66	20	5.80
	75	10	IR	**727 208 512**	0.293	75	20	6.90
	90	10	IR	**727 208 513**	0.521	90	20	8.20
	110	10	IR	**727 208 514**	0.928	110	20	10.00
	125	10	IR	**727 208 515**	1.347	125	25	11.40
	140	10	IR	**727 208 516**	1.923	140	28	12.70
	160	10	IR	**727 208 517**	2.844	160	28	14.60
	180	10	IR	**727 208 518**	5.475	215	94	16.40
	200	10	IR	**727 208 519**	5.579	200	35	18.20
	225	10	IR	**727 208 520**	7.812	220	35	20.50
	250	10	IR	**727 208 521**	10.400	227	68	22.70
	280	10	IR	**727 208 522**	15.170	267	87	25.40
	315	10	IR	**727 208 523**	20.330	283	86	28.60
1	355	10		**727 208 524**	31.100	345	105	33.90
1	400	10		**727 208 525**	40.900	365	105	38.20
1	450	10		**727 208 526**	60.300	425	135	43.00
1	500	10		**727 208 527**	81.900	470	155	47.80

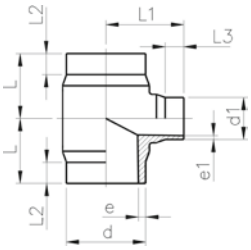


PROGEF Tee 90°, equal, PP-H S5/SDR11

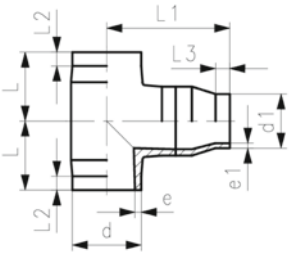
- For butt- and electro fusion
- Reduction factor = 0,6
- big dimensions on request

d (mm)	Code	L (mm)	L1 (mm)	L2 (mm)	e (mm)
225	**700 649 481**	265	150	530	20.5
250	**700 649 482**	375	250	750	22.8
280	**700 649 483**	390	250	780	25.5
315	**700 649 484**	460	300	920	28.7
355	**700 649 485**	480	300	960	32.3
400	**700 649 486**	500	300	1000	36.4





1



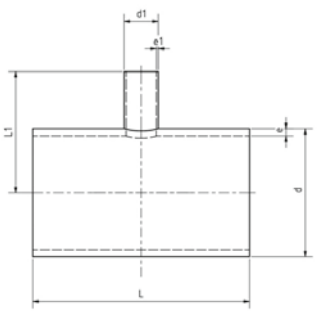
PROGEF Standard Tee 90° reduced
SDR11/PN10

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

[1]with IR welded reducer

	d (mm)	d1 (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	e (mm)	e1 (mm)
	63	32	10	IR	**727 208 351**	0.161	65	70	25	25.0	5.8	2.9
	63	40	10	IR	**727 208 350**	0.165	65	70	25	25.0	5.8	3.7
	63	50	10	IR	**727 208 352**	0.170	65	70	25	25.0	5.8	4.6
	75	32	10	IR	**727 208 353**	0.238	70	75	25	25.0	6.8	2.9
	75	50	10	IR	**727 208 354**	0.249	70	75	25	25.0	6.8	4.6
	75	63	10	IR	**727 208 355**	0.258	70	75	25	25.0	6.8	5.8
	90	50	10	IR	**727 208 357**	0.420	80	85	25	25.0	8.2	4.6
	90	63	10	IR	**727 208 358**	0.428	80	85	25	25.0	8.2	5.8
	90	75	10	IR	**727 208 359**	0.430	80	85	25	25.0	8.2	6.8
	110	32	10	IR	**727 208 360**	0.652	90	95	30	25.0	10.0	2.9
	110	50	10	IR	**727 208 361**	0.659	90	95	30	25.0	10.0	4.6
	110	63	10	IR	**727 208 362**	0.665	90	95	30	25.0	10.0	5.8
	110	75	10	IR	**727 208 363**	0.681	90	95	30	25.0	10.0	6.8
	110	90	10	IR	**727 208 364**	0.701	90	95	30	25.0	10.0	8.2
	125	63	10	IR	**727 208 665**	1.680	125	230	25	16.0	11.4	5.8
1	125	90	10	IR	**727 208 066**	1.700	125	225	25	40.0	11.4	8.2
1	125	110	10	IR	**727 208 367**	1.700	125	217	25	30.0	11.4	10.0
1	140	75	10	IR	**727 208 068**	2.400	140	245	28	41.0	12.7	6.8
1	140	90	10	IR	**727 208 069**	2.358	140	240	28	40.0	12.7	8.2
	160	63	10	IR	**727 208 371**	2.130	142	135	50	30.0	14.6	5.8
	160	75	10	IR	**727 208 372**	2.143	142	135	50	30.0	14.6	6.8
	160	90	10	IR	**727 208 373**	2.148	142	135	50	30.0	14.6	8.2
1	140	110	10	IR	**727 208 370**	2.380	140	242	28	33.0	12.7	10.0
	160	110	10	IR	**727 208 374**	2.186	142	135	50	30.0	14.6	10.0
	160	125	10	IR	**727 208 075**	3.600	160	272	28	32.0	14.6	11.4
1	200	160	10	IR	**727 208 385**	6.632	200	332	35	40.0	18.2	14.6
	200	180	10	IR	**727 208 086**	6.900	200	335	35	45.0	18.2	16.4
	225	90	10	IR	**727 208 388**	4.576	155	165	40	30.0	20.5	8.2
	225	110	10	IR	**727 208 389**	4.624	155	165	40	30.0	20.5	10.0
	225	160	10	IR	**727 208 391**	4.685	155	165	40	30.0	20.5	14.6
	250	160	10	IR	**727 208 093**	12.500	227	387	68	53.0	22.7	14.6
1	90	32	10	IR	**727 208 071**	0.470	80	142	25	20.0	8.2	2.9
1	180	63	10	IR	**727 208 077**	6.640	215	299	97	28.0	16.4	6.2
1	180	110	10	IR	**727 208 078**	6.490	215	355	97	40.0	16.4	10.0
1	315	160	10	IR	**727 208 080**	26.950	283	421	86	37.5	28.6	15.4
1	63	25	10	IR	**727 208 356**	0.190	65	112	25	20.0	5.8	2.3
1	315	110	10	IR	**727 208 079**	26.460	283	416	86	29.5	28.6	10.6
1	315	225	10	IR	**727 208 081**	25.440	283	508	86	60.0	28.6	20.5
1	315	250	10	IR	**727 208 082**	25.440	283	502	86	63.0	28.6	22.7

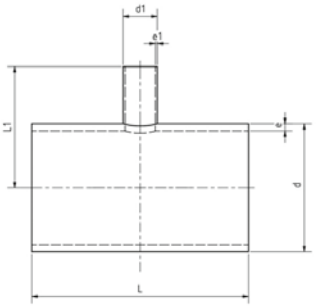


PROGEF Tee 90°, reduced, PP-H S5/SDR11

- For butt- and electro fusion
- Reduction factor = 0,6
- big dimensions on request

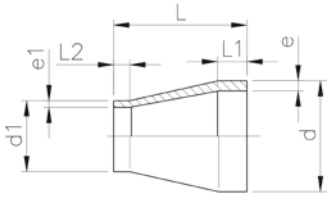
d (mm)	d1 (mm)	Code	SP	L (mm)	L1 (mm)	e (mm)	e1 (mm)
225	63	**700 649 493**	0	363	238	20.5	5.8
225	75	**700 649 494**	0	375	238	20.5	6.9
225	90	**700 649 495**	0	390	238	20.5	8.2
225	110	**700 649 496**	0	410	238	20.5	10.0

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d (mm)	d1 (mm)	Code	SP	L (mm)	L1 (mm)	e (mm)	e1 (mm)
225	125	**700 649 497**	0	425	238	20.5	11.4
225	140	**700 649 498**	0	440	238	20.5	12.8
225	160	**700 649 499**	0	460	238	20.5	14.6
250	75	**700 649 500**	0	475	250	22.8	6.9
250	90	**700 649 501**	0	490	250	22.8	8.2
250	110	**700 649 502**	0	510	250	22.8	10.0
250	125	**700 649 503**	0	525	250	22.8	11.4
250	140	**700 649 504**	0	540	250	22.8	12.8
250	160	**700 649 505**	0	560	250	22.8	14.6
250	180	**700 649 506**	0	580	275	22.8	16.4
280	75	**700 649 507**	0	475	265	25.5	6.9
280	90	**700 649 508**	0	490	265	25.5	8.2
280	110	**700 649 509**	0	510	265	25.5	10.0
280	125	**700 649 510**	0	525	265	25.5	11.4
280	140	**700 649 511**	0	540	265	25.5	12.8
280	160	**700 649 512**	0	560	265	25.5	14.6
280	180	**700 649 513**	0	580	290	25.5	16.4
280	200	**700 649 514**	0	600	290	25.5	18.2
315	90	**700 649 515**	0	490	283	28.7	8.2
315	110	**700 649 516**	0	510	283	28.7	10.0
315	125	**700 649 517**	0	525	283	28.7	11.4
315	140	**700 649 518**	0	540	283	28.7	12.8
315	160	**700 649 519**	0	560	283	28.7	14.6
315	180	**700 649 520**	0	580	308	28.7	16.4
315	200	**700 649 521**	0	600	308	28.7	18.2
315	225	**700 649 523**	0	625	308	28.7	20.5
355	110	**700 649 524**	0	510	303	32.3	10.0
355	125	**700 649 525**	0	525	303	32.3	11.4
355	140	**700 649 526**	0	540	303	32.3	12.8
355	160	**700 649 527**	0	560	303	32.3	14.6
355	180	**700 649 528**	0	580	328	32.3	16.4
355	200	**700 649 529**	0	600	328	32.3	18.2
355	225	**700 649 530**	0	625	328	32.3	20.5
355	250	**700 649 531**	0	650	378	32.3	22.8
400	110	**700 649 532**	0	510	325	36.4	10.0
400	125	**700 649 533**	0	525	325	36.4	11.4
400	140	**700 649 534**	0	540	325	36.4	12.8
400	160	**700 649 535**	0	560	325	36.4	14.6
400	180	**700 649 536**	0	580	350	36.4	16.4
400	200	**700 649 537**	0	600	350	36.4	18.2
400	225	**700 649 538**	0	625	350	36.4	20.5
400	250	**700 649 539**	0	650	400	36.4	22.8
400	280	**700 649 540**	0	680	400	36.4	25.5





PROGEF Standard reducer SDR11/PN10

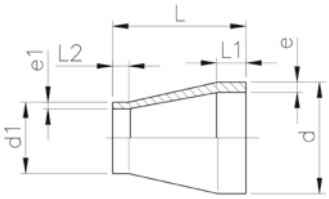
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

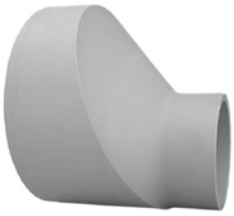
Material:PP-R

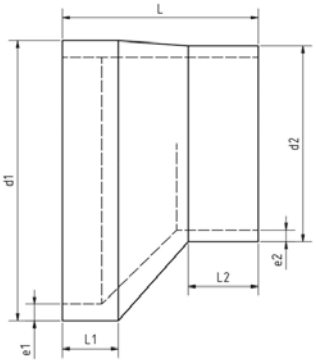
d (mm)	d1 (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	e1 (mm)
25	20	10	IR	**727 908 537**	0.007	50	20	20	2.3	1.9
32	20	10	IR	**727 908 542**	0.010	50	20	20	2.9	1.9
32	25	10	IR	**727 908 541**	0.010	50	20	20	2.9	2.3
40	20	10	IR	**727 908 548**	0.016	58	20	23	3.7	1.9
40	25	10	IR	**727 908 547**	0.016	55	20	20	3.7	2.3
40	32	10	IR	**727 908 546**	0.018	55	20	20	3.7	2.9

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	d (mm)	d1 (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	e1 (mm)
	50	25	10	IR	**727 908 554**	0.024	60	20	20	4.6	2.3
	50	32	10	IR	**727 908 553**	0.027	60	20	20	4.6	2.9
	50	40	10	IR	**727 908 552**	0.030	60	20	20	4.6	3.7
	63	32	10	IR	**727 908 560**	0.043	65	20	20	5.8	2.9
	63	40	10	IR	**727 908 559**	0.047	65	20	20	5.8	3.7
	63	50	10	IR	**727 908 558**	0.051	65	20	20	5.8	4.6
	75	40	10	IR	**727 908 566**	0.062	68	20	20	6.8	3.7
	75	50	10	IR	**727 908 565**	0.071	65	20	20	6.8	4.6
	90	63	10	IR	**727 908 571**	0.115	75	22	19	8.2	5.8
	75	63	10	IR	**727 908 564**	0.075	65	20	20	6.8	5.8
	90	75	10	IR	**727 908 570**	0.130	75	22	19	8.2	6.8
	110	63	10	IR	**727 908 572**	0.201	90	28	28	10.6	6.2
	110	75	10	IR	**727 908 577**	0.215	90	28	18	10.0	6.8
	110	90	10	IR	**727 908 576**	0.225	90	28	30	10.0	8.2
	125	110	10	IR	**727 908 580**	0.335	100	32	30	11.4	10.0
	140	110	10	IR	**727 908 585**	0.423	110	33	29	12.7	10.0
	140	125	10	IR	**727 908 584**	0.462	110	34	30	12.7	11.4
	160	110	10	IR	**727 908 590**	0.586	120	39	27	14.6	10.0
	160	140	10	IR	**727 908 588**	0.647	120	40	35	14.6	12.7
	180	90	10	IR	**727 908 149**	0.800	145	50	40	16.4	8.8
	180	110	10	IR	**727 908 150**	1.010	150	50	40	16.4	10.0
	180	125	10	IR	**727 908 151**	0.985	145	52	40	16.4	11.4
	180	140	10	IR	**727 908 152**	0.995	135	51	47	16.4	12.7
	180	160	10	IR	**727 908 153**	1.020	135	55	52	16.4	14.6
	200	160	10	IR	**727 908 592**	1.149	145	50	40	18.2	14.6
	200	180	10	IR	**727 908 158**	1.300	130	50	45	18.2	16.4
	225	110	10	IR	**727 908 595**	1.485	160	55	35	20.5	10.0
	225	160	10	IR	**727 908 596**	1.590	160	55	40	20.5	14.6
	225	180	10	IR	**727 908 162**	1.770	163	60	58	20.5	16.4
	225	200	10	IR	**727 908 597**	1.723	160	55	50	20.5	18.2
	250	160	10	IR	**727 908 165**	2.140	180	70	50	22.7	14.6
	250	225	10	IR	**727 908 168**	2.750	190	65	65	22.7	20.5
	280	225	10	IR	**727 908 172**	3.425	203	72	57	25.4	20.5
	280	250	10	IR	**727 908 173**	1.980	206	75	60	25.4	22.7
	315	225	10	IR	**727 908 176**	5.110	237	84	60	28.6	20.5
	315	250	10	IR	**727 908 177**	5.105	231	86	63	28.6	22.7
	315	280	10	IR	**727 908 178**	5.130	222	80	70	28.6	25.4
1	355	250	10		**727 908 963**	5.490	190	90	60	32.3	22.7
1	355	280	10		**727 908 962**	5.462	190	90	70	32.2	25.4
1	355	315	10		**727 908 961**	3.700	190	90	80	32.2	28.6
1	400	315	10		**727 908 966**	5.300	210	95	80	36.3	28.6
1	400	355	10		**727 908 965**	4.800	205	95	90	36.3	32.2
	450	280	10		**727 908 960**	9.000	160	65	40	40.9	25.4
	450	315	10		**727 908 948**	8.000	180	60	80	40.9	28.6
	450	355	10		**727 908 950**	7.400	180	60	90	40.9	32.2
	450	400	10		**727 908 951**	6.000	230	60	95	40.9	36.3
	500	315	10		**727 908 953**	12.000	200	60	80	45.4	28.6
	500	355	10		**727 908 954**	10.800	200	60	90	45.4	32.2
	500	400	10		**727 908 956**	10.000	230	60	95	45.4	36.3
	500	450	10		**727 908 964**	8.300	120	60	40	45.4	40.9





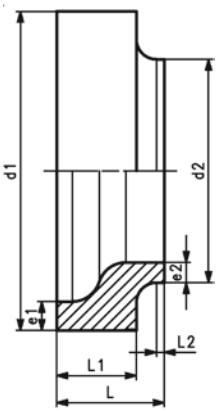
PROGEF Reducing Bushes excentric, PP-H SDR11

Model:

- Machined
- Conventional butt-welding according to DVS 2207

d (mm)	d1 (mm)	d2 (mm)	PN (bar)	SDR	Code	L2 (mm)	L (mm)	e2 (mm)	L1 (mm)	e1 (mm)
63	63	50	10	11	**700 647 700**	35	120	4.6	35	5.8
75	75	50	10	11	**700 647 701**	35	120	4.6	40	6.8
75	75	63	10	11	**700 647 702**	35	120	5.8	40	6.8
90	90	63	10	11	**700 647 703**	50	140	5.8	50	8.2
90	90	75	10	11	**700 647 704**	50	140	6.8	50	8.2
110	110	75	10	11	**700 647 705**	50	140	6.8	50	10.0
110	110	90	10	11	**700 647 706**	50	140	8.2	50	10.0
125	125	90	10	11	**700 647 707**	50	140	5.1	50	11.4
125	125	110	10	11	**700 647 708**	50	140	10.0	50	11.4
140	140	90	10	11	**700 647 709**	50	140	8.2	50	12.7
140	140	110	10	11	**700 647 710**	50	140	10.0	50	12.7
160	160	90	10	11	**700 647 711**	54	140	8.2	50	14.6
160	160	110	10	11	**700 647 712**	45	120	10.0	40	14.6
160	160	125	10	11	**700 647 713**	44	110	11.4	40	14.6
160	160	140	10	11	**700 647 714**	33	90	12.7	40	14.6
180	180	125	10	11	**700 647 715**	52	130	11.4	40	16.4
180	180	140	10	11	**700 647 716**	41	110	12.7	40	16.4
180	180	160	10	11	**700 647 717**	33	90	16.4	40	16.4
200	200	140	10	11	**700 647 718**	50	140	12.7	40	18.2
200	200	160	10	11	**700 647 719**	41	120	14.6	40	18.2
200	200	180	10	11	**700 647 720**	43	100	16.4	40	18.2
225	225	160	10	11	**700 647 721**	57	140	14.6	40	20.5
225	225	180	10	11	**700 647 722**	48	120	16.4	40	20.5
225	225	200	10	11	**700 647 723**	40	100	18.2	40	20.5
250	250	180	10	11	**700 647 724**	54	150	16.4	40	22.7
250	250	200	10	11	**700 647 725**	55	130	18.2	40	22.7
250	250	225	10	11	**700 647 726**	40	110	20.5	40	22.7
280	280	200	10	11	**700 647 727**	58	160	18.2	40	25.4
280	280	225	10	11	**700 647 728**	52	130	20.5	40	25.4
280	280	250	10	11	**700 647 729**	47	110	22.7	40	25.4
315	315	225	10	11	**700 647 730**	62	160	20.5	40	28.6
315	315	250	10	11	**700 647 731**	57	140	22.7	40	28.6
315	315	280	10	11	**700 647 732**	54	120	25.4	40	28.6
355	355	250	10	11	**700 647 733**	74	180	22.7	40	32.2
355	355	280	10	11	**700 647 734**	61	150	25.4	40	32.2
355	355	315	10	11	**700 647 735**	51	120	28.6	40	32.2
400	400	280	10	11	**700 647 736**	85	200	25.4	40	36.3
400	400	315	10	11	**700 647 737**	75	170	28.6	40	36.3
400	400	355	10	11	**700 647 738**	58	130	32.2	40	36.3
450	450	315	10	11	**700 647 739**	86	210	28.6	40	40.9
450	450	355	10	11	**700 647 740**	79	180	32.2	40	40.9
450	450	400	10	11	**700 647 741**	65	140	36.3	40	40.9
500	500	315	10	11	**700 647 742**	107	260	28.6	40	45.4
500	500	355	10	11	**700 647 743**	91	220	32.2	40	45.4
500	500	400	10	11	**700 647 744**	86	190	36.3	40	45.4
500	500	450	10	11	**700 647 745**	65	140	40.9	40	45.4
560	560	450	10	11	**700 647 746**	91	200	40.9	40	50.8
560	560	500	10	11	**700 647 747**	70	150	45.4	40	50.8
630	630	500	10	11	**700 647 748**	99	220	45.4	40	57.2
630	630	560	10	11	**700 647 749**	84	170	50.8	40	57.2



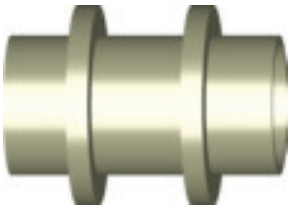


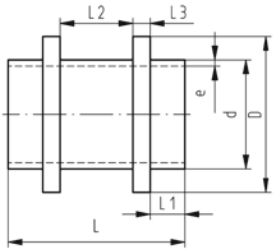
PROGEF Standard Flush style reducer SDR11/PN10

Model:

- Material: PP-H
- Flush style design
- Conventional butt-welding according to DVS 2207
- Clamping on welding machine needs to be done always on the bigger diameter (d1)
- The butt fusion machine must be suitable to weld both dimensions (d1 and d2)

d1 (mm)	d2 (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e1 (mm)	e2 (mm)
355	225	350	10	**727 909 809**	4.983	130	95	10	32.2	20.5
355	250		10	**727 909 810**	3.574	115	80	10	32.2	22.7
355	280		10	**727 909 811**	3.856	115	80	10	32.2	25.4
355	315		10	**727 909 812**	3.952	115	80	15	32.2	28.6
400	225	400	10	**727 909 816**	7.587	145	110	10	36.3	20.5
400	250	400	10	**727 909 817**	6.955	140	105	10	36.3	22.7
400	280	400	10	**727 909 818**	6.363	135	100	10	36.3	25.4
400	315		10	**727 909 819**	6.149	135	100	10	36.3	28.6
400	355		10	**727 909 820**	5.811	135	100	13	36.3	32.2
450	225		10	**727 909 822**	11.398	165	125	10	40.9	20.5
450	250		10	**727 909 823**	10.561	160	120	10	40.9	22.7
450	280		10	**727 909 824**	9.149	150	110	15	40.9	25.4
450	315		10	**727 909 825**	8.660	150	110	15	40.9	28.6
450	355		10	**727 909 826**	8.246	150	110	15	40.9	32.2
450	400		10	**727 909 827**	7.973	150	110	15	40.9	36.3
500	225		10	**727 909 829**	15.293	180	130	10	45.4	20.5
500	250		10	**727 909 830**	15.037	180	130	10	45.4	22.7
500	280		10	**727 909 831**	13.995	175	125	10	45.4	25.4
500	315		10	**727 909 832**	10.404	165	115	10	45.4	28.6
500	355		10	**727 909 833**	10.785	165	115	10	45.4	32.2
500	400		10	**727 909 834**	11.863	165	115	10	45.4	36.3
500	450		10	**727 909 835**	12.042	165	115	25	45.4	40.9





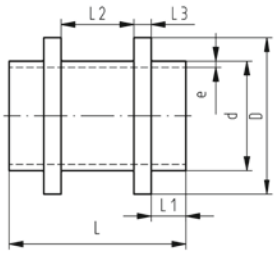
PROGEF Standard Fixpoint fitting SDR11/PN10

Model:

- Material: PP-H
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207
- Machined

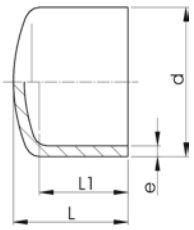
d (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D (mm)	e (mm)
63	10	IR	**727 665 520**	0.175	122	30	42	10	90	5.8
75	10	IR	**727 665 521**	0.254	122	30	42	10	110	6.8
90	10	IR	**727 665 522**	0.342	122	30	42	10	125	8.2
110	10	IR	**727 665 523**	0.567	142	30	52	15	140	10.0
125	10	IR	**727 665 524**	0.777	152	35	52	15	160	11.4
140	10	IR	**727 665 525**	1.023	162	40	52	15	180	12.7
160	10	IR	**727 665 526**	1.292	162	40	52	15	200	14.6
180	10	IR	**727 665 527**	1.917	182	45	52	20	225	16.4
200	10	IR	**727 665 528**	2.365	182	45	52	20	250	18.2
225	10	IR	**727 665 529**	3.294	192	45	52	25	280	20.5
250	10	IR	**727 665 530**	3.695	212	50	62	25	280	22.7
280	10	IR	**727 665 531**	4.997	222	50	62	30	315	25.4
315	10	IR	**727 665 532**	6.348	222	50	62	30	355	28.6

table continued on the next page



d (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D (mm)	e (mm)
355	10		**727 665 533**	7.405	192	30	62	35	400	32.2
400	10		**727 665 534**	10.432	212	30	72	40	450	36.3
450	10		**727 665 535**	14.153	232	35	72	45	500	40.9
500	10		**727 665 536**	19.414	252	40	72	50	560	45.4





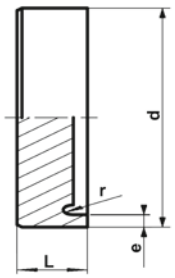
PROGEF Standard End cap SDR11/PN10

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

d (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
20	10	IR	**727 968 106**	0.005	49	42	1.9
25	10	IR	**727 968 107**	0.007	52	42	2.3
32	10	IR	**727 968 108**	0.016	57	47	2.9
40	10	IR	**727 968 109**	0.023	64	51	3.7
50	10	IR	**727 968 110**	0.048	72	59	4.6
63	10	IR	**727 968 111**	0.087	86	67	5.8
75	10	IR	**727 968 112**	0.138	94	73	6.8
90	10	IR	**727 968 113**	0.222	112	83	8.2
110	10	IR	**727 968 114**	0.375	124	90	10.0
125	10	IR	**727 968 115**	0.520	130	94	11.4
140	10	IR	**727 968 116**	0.695	142	99	12.7
160	10	IR	**727 968 117**	1.040	162	109	14.6
180	10	IR	**727 968 118**	1.375	170	113	16.4
200	10	IR	**727 968 119**	1.860	179	117	18.2
225	10	IR	**727 968 120**	2.625	203	127	20.5





PROGEF Standard End cap short SDR11/PN10

Model:

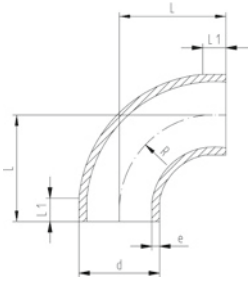
- Material: PP-R
- Machined
- Conventional butt-welding according to DVS 2207

d (mm)	PN (bar)	Code	Weight (kg)	L (mm)	e (mm)
250	10	**727 968 846**	1.900	60	22.7
280	10	**727 968 847**	2.600	65	25.4
315	10	**727 968 848**	3.600	70	28.6
355	10	**727 968 849**	5.100	80	32.2
400	10	**727 968 850**	7.200	85	36.3
450	10	**727 968 851**	10.200	95	40.9
500	10	**727 968 852**	14.000	105	74.5

Butt fusion fittings SDR 17.6







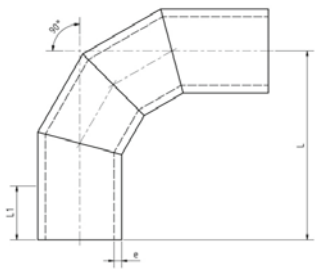
PROGEF Standard Bend 90° SDR17.6/PN6

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

* Material:PP-R

	d (mm)	PN (bar)	FM	Type	Code	Weight (kg)	L (mm)	L1 (mm)	R (mm)	e (mm)
	50	6	IR	1	**727 018 635**	0.050	58	21	37.00	3.0
	63	6	IR	1	**727 018 636**	0.081	66	21	45.00	3.8
	75	6	IR	2	**727 018 412**	0.128	75	21	71.25	4.8
	90	6	IR	2	**727 018 413**	0.222	90	22	85.50	5.7
	110	6	IR	2	**727 018 414**	0.396	110	25	104.50	6.9
	125	6	IR	2	**727 018 215**	0.625	145	34	126.00	7.1
	140	6	IR	2	**727 018 216**	0.880	162	38	142.00	8.0
	160	6	IR	2	**727 018 217**	1.273	183	40	162.00	9.1
	180	6	IR	2	**727 018 218**	1.720	200	38	182.00	10.2
	200	6	IR	2	**727 018 219**	2.329	220	40	202.00	11.4
	225	6	IR	2	**727 018 220**	3.270	245	41	227.00	12.8
	250	6	IR	2	**727 018 221**	4.629	280	51	252.00	14.2
	280	6	IR	2	**727 018 222**	6.410	310	52	282.00	15.9
	315	6	IR	2	**727 018 223**	9.173	350	61	318.00	17.9
*	355	6		2	**727 018 424**	11.640	345	70	330.00	21.2
*	400	6		2	**727 018 425**	15.200	365	70	350.00	23.9
*	450	6		2	**727 018 426**	22.240	425	70	400.00	26.9
*	500	6		2	**727 018 427**	31.020	470	90	445.00	29.8

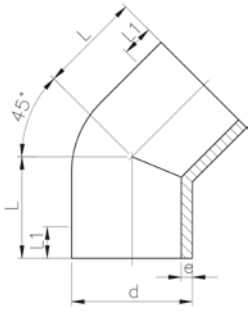


PROGEF Elbow 90°, PP-H S8/SDR17.6

- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

d (mm)	Code	L (mm)	L1 (mm)	e (mm)
110	**700 649 396**	315	150	6.3
125	**700 649 397**	338	150	7.1
140	**700 649 398**	360	150	8.0
160	**700 649 399**	390	150	9.1
180	**700 649 400**	420	150	10.2
200	**700 649 401**	450	150	11.4
225	**700 649 402**	488	150	12.8
250	**700 649 403**	625	250	14.2
280	**700 649 404**	670	250	15.9
315	**700 649 405**	773	300	17.9
355	**700 649 406**	833	300	20.1
400	**700 649 407**	900	300	22.7





PROGEF Standard Elbow 45°
SDR17.6/PN6

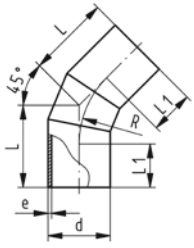
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

1) Material:PP-R
*Machined from S5/SDR11

	d (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
*	50	6	IR	**727 158 535**	0.042	42	26	2.9
*	63	6	IR	**727 158 536**	0.081	47	29	3.6
	75	6	IR	**727 158 412**	0.099	49	29	4.3
	90	6	IR	**727 158 413**	0.165	57	34	5.1
	110	6	IR	**727 158 414**	0.286	70	43	6.3
*	125	6	IR	**727 158 540**	0.570	79	48	7.1
*	140	6	IR	**727 158 541**	0.721	88	55	8.0
*	160	6	IR	**727 158 542**	1.107	100	60	9.1
*	200	6	IR	**727 158 544**	2.225	124	75	11.4
*	225	6	IR	**727 158 545**	3.194	140	85	12.8
1	250	6	IR	**727 158 546**	4.970	225	133	14.2
1	280	6	IR	**727 158 547**	7.130	235	143	15.9
1	315	6	IR	**727 158 548**	9.600	255	154	17.9



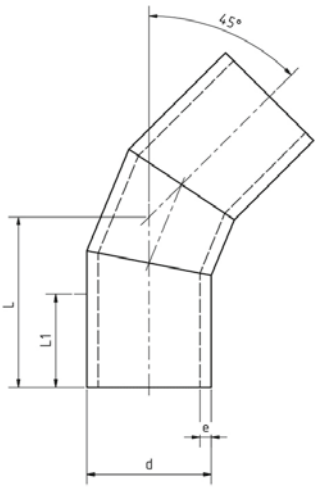


PROGEF Standard Bend 45°
SDR17.6/PN6

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- Production process: segment welded
- Segment-welded fittings have a pressure reduction factor of 0.8

d (mm)	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	R (mm)	e (mm)
355	4	**727 158 549**	21.000	520	300	533	20.1
400	4	**727 158 550**	28.100	548	300	600	22.7
450	4	**727 158 551**	37.400	580	300	675	25.5
500	4	**727 158 552**	52.600	665	350	750	28.4

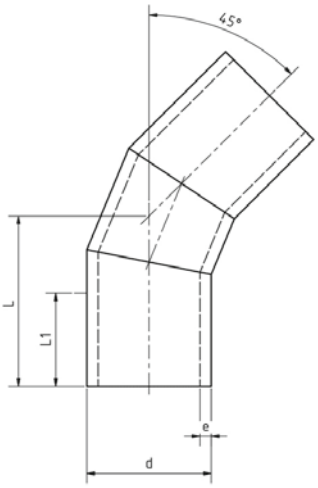


PROGEF Elbow 45°, PP-H S8/SDR17.6

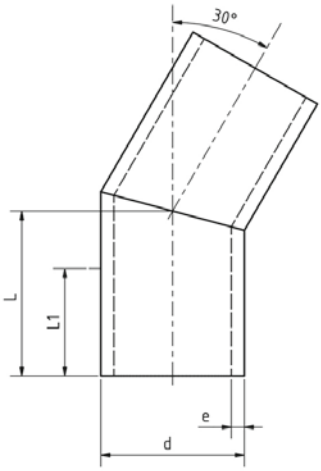
- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

d (mm)	Code	L (mm)	L1 (mm)	e (mm)
110	**700 649 432**	218	150	6.3
125	**700 649 433**	228	150	7.1
140	**700 649 434**	237	150	8.0
160	**700 649 435**	249	150	9.1
180	**700 649 436**	262	150	10.2
200	**700 649 437**	274	150	11.4
225	**700 649 438**	290	150	12.8
250	**700 649 439**	412	250	14.2

table continued on the next page



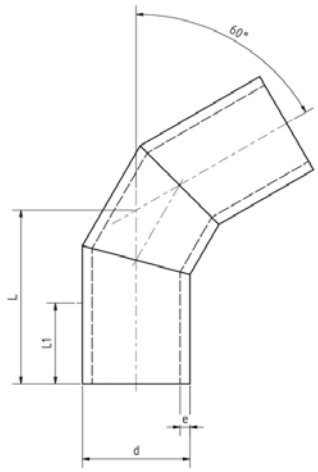
d (mm)	Code	L (mm)	L1 (mm)	e (mm)
280	**700 649 440**	424	250	15.9
315	**700 649 441**	498	300	17.9
355	**700 649 442**	520	300	20.1
400	**700 649 443**	548	300	22.7



PROGEF Elbow 30°, PP-H S8/SDR17.6

- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

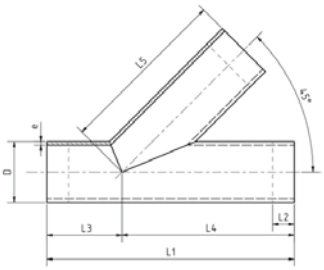
d (mm)	Code	SP	L (mm)	L1 (mm)	e (mm)
110	**700 649 457**	0	194	150	6.3
125	**700 649 458**	0	200	150	7.1
140	**700 649 459**	0	206	150	8.0
160	**700 649 460**	0	214	150	9.1
180	**700 649 461**	0	222	150	10.2
200	**700 649 462**	0	230	150	11.4
225	**700 649 463**	0	241	150	12.8
250	**700 649 464**	0	350	250	14.2
280	**700 649 465**	0	362	250	15.9
315	**700 649 466**	0	428	300	17.9
355	**700 649 467**	0	443	300	20.1
400	**700 649 468**	0	461	300	22.7



PROGEF Elbow 60°, PP-H S8/SDR17.6

- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

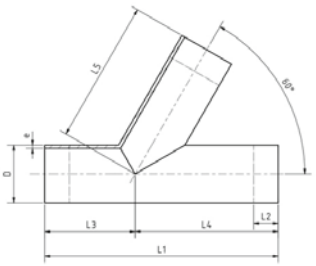
d (mm)	Code	L (mm)	L1 (mm)	e (mm)
110	**700 649 408**	245	150	6.3
125	**700 649 409**	258	150	7.1
140	**700 649 410**	271	150	8.0
160	**700 649 411**	288	150	9.1
180	**700 649 412**	305	150	10.2
200	**700 649 413**	323	150	11.4
225	**700 649 414**	345	150	12.8
250	**700 649 415**	466	250	14.2
280	**700 649 416**	492	250	15.9
315	**700 649 417**	576	300	17.9
355	**700 649 418**	608	300	20.1
400	**700 649 419**	646	300	22.7



PROGEF Branch 45°, PP-H S8/SDR17,6

- For butt- and electro fusion
- Reduction factor = 0,5

d (mm)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	e (mm)
110	**700 649 648**	0	2.190	150	520	6.3
125	**700 649 649**	0	5.985	150	520	7.1
140	**700 649 650**	0	3.220	150	570	8.0
160	**700 649 651**	0	4.280	150	640	9.1
180	**700 649 652**	0	6.928	150	700	10.2
200	**700 649 653**	0	7.275	150	800	11.4
225	**700 649 654**	0	7.639	150	800	12.8
250	**700 649 655**	0	8.020	250	1000	14.2
280	**700 649 656**	0	8.421	250	1000	15.9
315	**700 649 657**	0	8.843	300	1300	17.9
355	**700 649 658**	0	9.285	300	1500	20.1
400	**700 649 659**	0	9.749	300	1500	22.7

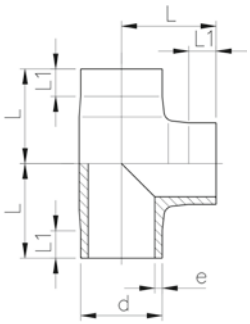


PROGEF Branch 60° PP-H S8/SDR17.6

- For butt- and electro fusion
- Reduction factor = 0,5

d (mm)	Code	SP	L1 (mm)	L2 (mm)	e (mm)
110	**700 649 672**	0	150	520	6.3
125	**700 649 673**	0	150	520	7.1
140	**700 649 674**	0	150	570	8.0
160	**700 649 675**	0	150	640	9.1
180	**700 649 676**	0	150	700	10.2
200	**700 649 677**	0	150	800	11.4
225	**700 649 678**	0	150	800	12.8
250	**700 649 679**	0	250	1000	14.2
280	**700 649 680**	0	250	1000	15.9
315	**700 649 681**	0	300	1300	17.9
355	**700 649 682**	0	300	1500	20.1
400	**700 649 683**	0	300	1500	22.7





PROGEF Standard Tee 90° equal SDR17.6/PN6

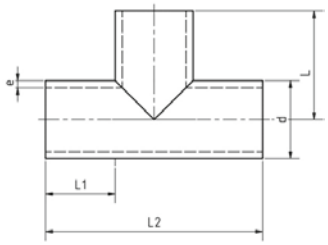
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

Note:

[1]Material: PP-R

	d (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
	50	6	IR	**727 208 410**	0.084	92	57	2.9
	63	6	IR	**727 208 411**	0.172	107	64	3.6
	75	6	IR	**727 208 412**	0.212	75	20	4.3
	90	6	IR	**727 208 413**	0.396	90	20	5.1
	110	6	IR	**727 208 414**	0.705	110	20	6.3
	125	6	IR	**727 208 415**	1.154	125	50	7.1
	140	6	IR	**727 208 416**	1.765	160	63	8.0
	160	6	IR	**727 208 417**	2.335	163	60	9.1
	180	6	IR	**727 208 418**	4.000	217	97	10.2
	200	6	IR	**727 208 419**	5.060	220	94	11.4
	225	6	IR	**727 208 420**	6.870	227	75	12.8
	250	6	IR	**727 208 421**	7.410	225	67	14.2
	280	6	IR	**727 208 422**	10.680	266	88	15.9
	315	6	IR	**727 208 423**	14.105	283	86	17.9
1	355	6		**727 208 424**	20.800	345	105	20.1
1	400	6		**727 208 425**	27.200	365	105	22.7
1	450	6		**727 208 426**	47.300	425	135	26.7
1	500	6		**727 208 427**	54.800	470	155	29.7

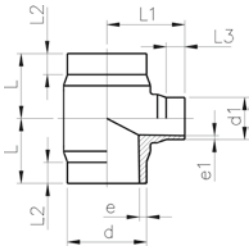


Tees 90°, equal, PP-H S8/SDR17.6

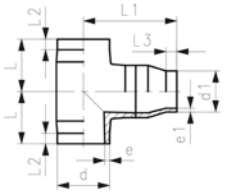
- For butt- and electro fusion
- Reduction factor = 0,6
- big dimensions on request

d (mm)	Code	L (mm)	L1 (mm)	L2 (mm)	e (mm)
225	**700 649 487**	265	150	530	12.8
250	**700 649 488**	375	250	750	14.2
280	**700 649 489**	390	250	780	15.9
315	**700 649 490**	460	300	920	17.9
355	**700 649 491**	480	300	960	20.1
400	**700 649 492**	500	300	1000	22.7





1



PROGEF Standard Tee 90° reduced
SDR17.6/PN6

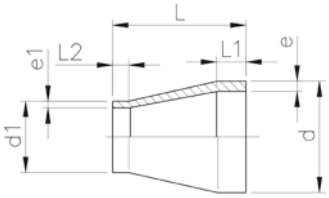
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

[1]with IR welded reducer
* Branch SDR11

	d (mm)	d1 (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	e (mm)	e1 (mm)
*	63	32	6	IR	**727 208 301**	0.120	65	70	25	25	3.6	2.9
	63	50	6	IR	**727 208 302**	0.124	65	70	25	25	3.6	2.9
*	75	32	6	IR	**727 208 303**	0.178	70	75	25	25	4.3	2.9
	75	50	6	IR	**727 208 304**	0.182	70	75	25	25	4.3	2.9
	75	63	6	IR	**727 208 305**	0.190	70	75	25	25	4.3	3.6
	90	50	6	IR	**727 208 307**	0.305	80	85	25	25	5.1	2.9
	90	63	6	IR	**727 208 308**	0.315	80	85	25	25	5.1	3.6
	90	75	6	IR	**727 208 309**	0.320	80	85	25	25	5.1	4.3
*	110	32	6	IR	**727 208 310**	0.489	90	95	30	25	6.3	2.9
	110	50	6	IR	**727 208 311**	0.490	90	95	30	25	6.3	2.9
	110	63	6	IR	**727 208 312**	0.491	90	95	30	25	6.3	3.6
	110	75	6	IR	**727 208 313**	0.500	90	95	30	25	6.3	4.3
	110	90	6	IR	**727 208 314**	0.514	90	95	30	25	6.3	5.1
1	125	63	6	IR	**727 208 015**	1.300	125	212	50	20	7.1	3.6
1	125	90	6	IR	**727 208 016**	1.400	125	229	50	41	7.1	5.1
1	125	110	6	IR	**727 208 017**	1.400	125	218	50	42	7.1	6.3
1	140	75	6	IR	**727 208 018**	2.000	160	255	63	41	8.0	4.3
1	140	90	6	IR	**727 208 019**	2.100	160	251	63	42	8.0	5.1
1	140	110	6	IR	**727 208 020**	2.100	160	240	63	43	8.0	6.3
	160	63	6	IR	**727 208 321**	1.535	142	135	50	30	9.1	3.6
	160	75	6	IR	**727 208 322**	1.550	142	135	50	30	9.1	4.3
	160	90	6	IR	**727 208 323**	1.567	142	135	50	30	9.1	5.1
	160	110	6	IR	**727 208 324**	1.577	142	135	50	30	9.1	6.3
1	160	125	6	IR	**727 208 025**	2.800	163	275	60	32	9.1	7.1
1	200	160	6	IR	**727 208 035**	5.900	220	325	94	40	11.4	9.1
1	200	180	6	IR	**727 208 036**	6.000	220	325	94	54	11.4	10.2
	225	90	6	IR	**727 208 338**	3.350	155	165	40	30	12.8	5.1
	225	110	6	IR	**727 208 339**	3.330	155	165	40	30	12.8	6.3
	225	160	6	IR	**727 208 341**	3.427	155	165	40	30	12.8	9.1
1	250	160	6	IR	**727 208 043**	8.900	225	389	67	52	14.2	9.1
	180	63	6	IR	**727 208 072**	5.860	217	301	97	28	10.2	3.8
	180	90	6	IR	**727 208 073**	4.600	217	352	97	42	10.2	5.1
	180	110	6	IR	**727 208 074**	4.620	217	357	97	42	10.2	6.3
	180	160	6	IR	**727 208 076**	4.700	217	342	97	52	10.2	9.1
	180	63	6	IR	**727 208 394**	5.860	217	301	97	28	10.2	3.8
	180	90	6	IR	**727 208 395**	4.600	217	352	97	42	10.2	5.1
	180	160	6	IR	**727 208 397**	4.700	217	342	97	52	10.2	9.1
	180	110	6	IR	**727 208 396**	4.620	217	357	97	42	10.2	6.3





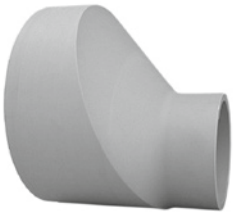
PROGEF Standard Reducer
SDR17.6/PN6

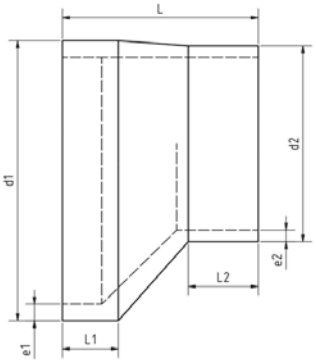
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

[1] Material: PP-R

	d (mm)	d1 (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	e1 (mm)
	50	40	6	IR	**727 908 713**	0.018	134	56	52	2.9	2.3
	63	40	6	IR	**727 908 901**	0.020	65	16	12	3.6	2.3
	63	50	6	IR	**727 908 718**	0.055	87	29	27	3.6	2.9
	75	40	6	IR	**727 908 904**	0.041	65	20	20	4.3	2.3
	75	50	6	IR	**727 908 465**	0.047	65	20	20	4.5	3.0
	75	63	6	IR	**727 908 464**	0.053	65	20	20	4.5	3.8
	90	63	6	IR	**727 908 471**	0.079	75	22	19	5.4	3.8
	90	75	6	IR	**727 908 470**	0.090	75	21	19	5.4	4.5
	110	63	6	IR	**727 908 472**	0.149	90	28	28	6.6	3.8
	110	75	6	IR	**727 908 477**	0.149	90	28	18	6.6	4.5
	110	90	6	IR	**727 908 476**	0.158	90	28	20	6.6	5.4
	125	110	6	IR	**727 908 738**	0.250	103	42	42	7.1	6.3
	140	110	6	IR	**727 908 742**	0.320	120	53	43	8.0	6.3
	140	125	6	IR	**727 908 916**	0.353	115	35	32	8.0	7.1
	160	110	6	IR	**727 908 746**	0.500	129	40	34	9.1	6.3
	160	140	6	IR	**727 908 748**	0.560	125	49	38	9.1	8.0
	180	90	6	IR	**727 908 749**	0.600	145	53	42	10.2	5.1
	180	110	6	IR	**727 908 750**	0.620	150	55	42	10.2	6.3
	180	125	6	IR	**727 908 751**	0.620	143	52	40	10.2	7.1
	180	140	6	IR	**727 908 752**	0.640	135	51	47	10.2	8.0
	180	160	6	IR	**727 908 753**	0.700	135	55	52	10.2	9.1
	200	160	6	IR	**727 908 930**	0.805	151	50	40	11.4	9.1
	200	180	6	IR	**727 908 758**	0.920	145	62	54	11.4	10.2
	225	110	6	IR	**727 908 936**	1.001	160	55	35	12.8	6.3
	225	160	6	IR	**727 908 934**	1.082	160	55	40	12.8	9.1
	225	180	6	IR	**727 908 762**	1.160	166	64	57	12.8	10.2
	225	200	6	IR	**727 908 932**	1.184	160	55	50	12.8	11.4
	250	160	6	IR	**727 908 765**	1.530	174	64	52	14.2	9.1
	250	225	6	IR	**727 908 768**	1.890	180	65	65	14.2	12.8
1	280	225	6	IR	**727 908 772**	2.370	200	70	55	15.9	12.8
1	280	250	6	IR	**727 908 773**	2.540	200	73	62	15.9	14.2
1	315	225	6	IR	**727 908 776**	3.320	237	84	59	17.9	12.8
1	315	250	6	IR	**727 908 777**	3.375	233	84	64	17.9	14.2
1	315	280	6	IR	**727 908 778**	3.510	227	85	72	17.9	15.9
1	355	315	6	IR	**727 908 957**	2.400	245	90	80	20.1	17.9
1	400	315	6		**727 908 972**	3.600	260	95	80	22.7	17.9
1	400	355	6		**727 908 971**	3.100	260	95	90	22.7	20.1
	450	280	6		**727 908 967**	6.000	230	60	70	25.5	15.9
	450	315	6		**727 908 984**	5.400	230	60	80	25.5	17.9
	450	355	6		**727 908 988**	5.000	230	60	90	25.5	20.1
	450	400	6		**727 908 989**	5.000	230	60	95	25.5	22.7
	500	315	6		**727 908 993**	8.100	230	60	80	28.4	17.9
	500	355	6		**727 908 994**	7.300	230	60	95	28.4	20.1
	500	400	6		**727 908 998**	6.700	230	60	95	28.4	22.7
	500	450	6		**727 908 999**	5.500	230	60	60	28.4	25.5





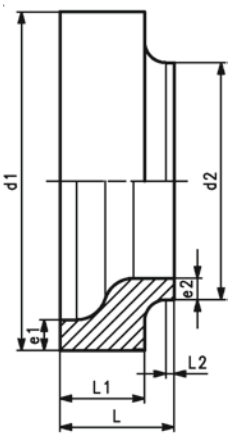
PROGEF Reducing Bushes excentric, PP-H SDR17.6

Model:

- Machined
- Conventional butt-welding according to DVS 2207

d (mm)	d1 (mm)	d2 (mm)	PN (bar)	Code	SP	Weight (kg)	e1 (mm)	L1 (mm)	L (mm)	L2 (mm)	e2 (mm)
63	63	50	6	**700 647 750**	0	0.020	3.6	35	120	35	2.9
75	75	50	6	**700 647 751**	0	0.041	4.3	40	120	35	2.9
75	75	63	6	**700 647 752**	0	0.048	4.3	40	120	35	3.6
90	90	63	6	**700 647 753**	0	0.079	5.1	50	140	50	3.6
90	90	75	6	**700 647 754**	0	0.090	5.1	50	140	50	4.3
110	110	75	6	**700 647 755**	0	1.000	6.3	50	140	50	4.3
110	110	90	6	**700 647 756**	0	0.158	6.3	50	140	50	5.1
125	125	90	6	**700 647 757**	0	0.190	7.1	50	140	50	5.1
125	125	110	6	**700 647 758**	0	0.215	7.1	50	140	50	6.3
140	140	90	6	**700 647 759**	0	0.308	8.0	50	140	50	5.1
140	140	110	6	**700 647 760**	0	0.338	8.0	50	140	50	6.3
160	160	90	6	**700 647 761**	0	1.000	9.5	50	140	54	5.4
160	160	110	6	**700 647 762**	0	0.454	9.5	40	120	45	6.6
160	160	125	6	**700 647 763**	0	0.071	9.5	40	110	44	7.4
160	160	140	6	**700 647 764**	0	0.482	9.5	40	90	33	8.3
180	180	125	6	**700 647 765**	0	0.596	10.7	40	130	52	7.4
180	180	140	6	**700 647 766**	0	0.632	10.7	40	110	41	8.3
180	180	160	6	**700 647 767**	0	0.677	10.7	40	90	33	9.5
200	200	140	6	**700 647 768**	0	0.805	11.9	40	140	50	8.3
200	200	160	6	**700 647 769**	0	0.822	11.9	40	120	41	9.5
200	200	180	6	**700 647 770**	0	0.894	11.9	40	100	43	10.7
225	225	160	6	**700 647 771**	0	1.083	13.4	40	140	57	9.5
225	225	180	6	**700 647 772**	0	1.337	13.4	40	120	48	10.7
225	225	200	6	**700 647 773**	0	1.884	13.4	40	100	40	11.9
250	250	180	6	**700 647 774**	0	2.100	14.8	40	150	54	10.7
250	250	200	6	**700 647 775**	0	2.189	14.8	40	130	55	11.9
250	250	225	6	**700 647 776**	0	2.370	14.8	40	110	40	13.4
280	280	200	6	**700 647 777**	0	2.820	16.6	40	160	58	11.9
280	280	225	6	**700 647 778**	0	2.854	16.6	40	130	52	13.4
280	280	250	6	**700 647 779**	0	2.980	16.6	40	110	47	14.8
315	315	225	6	**700 647 780**	0	3.010	18.7	40	160	62	13.4
315	315	250	6	**700 647 781**	0	3.158	18.7	40	140	57	14.8
315	315	280	6	**700 647 782**	0	3.500	18.7	40	120	54	16.6
355	355	250	6	**700 647 783**	0	1.000	21.1	40	180	74	14.8
355	355	280	6	**700 647 784**	0	3.800	21.1	40	150	61	16.6
355	355	315	6	**700 647 785**	0	4.200	21.1	40	120	51	18.7
400	400	280	6	**700 647 786**	0	5.580	23.7	40	200	85	16.6
400	400	315	6	**700 647 787**	0	5.800	23.7	40	170	75	18.7
400	400	355	6	**700 647 788**	0	6.310	23.7	40	130	58	21.1
450	450	315	6	**700 647 789**	0	6.540	26.7	40	210	86	18.7
450	450	355	6	**700 647 790**	0	7.210	26.7	40	180	79	21.1
450	450	400	6	**700 647 791**	0	7.900	26.7	40	140	65	23.7
500	500	315	6	**700 647 792**	0	8.450	29.7	40	260	107	18.7
500	500	355	6	**700 647 793**	0	9.124	29.7	40	220	91	21.1
500	500	400	6	**700 647 794**	0	9.450	29.7	40	190	86	23.7
500	500	450	6	**700 647 795**	0	11.850	29.7	40	140	65	26.7
560	560	450	6	**700 647 796**	0	12.600	33.2	40	200	91	26.7
560	560	500	6	**700 647 797**	0	13.650	33.2	40	150	70	29.7
630	630	500	6	**700 647 798**	0	14.800	37.4	40	220	99	29.7
630	630	560	6	**700 647 799**	0	15.240	37.4	40	170	84	33.2



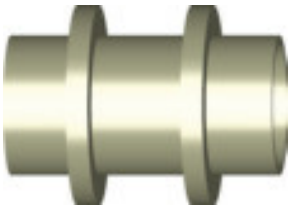


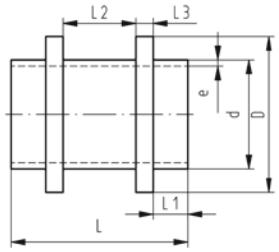
PROGEF Standard Flush style reducer SDR17.6/PN6

Model:

- Material: PP-H
- Flush style design
- Conventional butt-welding according to DVS 2207
- Clamping on welding machine needs to be done always on the bigger diameter (d1)
- The butt fusion machine must be suitable to weld both dimensions (d1 and d2)

d1 (mm)	d2 (mm)	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e1 (mm)	e2 (mm)
355	225	6	**727 909 859**	3.736	120	85	10	21.1	13.4
355	250	6	**727 909 860**	3.160	115	80	10	20.1	14.2
355	280	6	**727 909 861**	2.946	115	80	10	20.1	15.9
355	315	6	**727 909 862**	2.587	115	80	15	20.1	17.9
400	225	6	**727 909 866**	6.000	135	100	10	23.7	13.4
400	250	6	**727 909 867**	5.732	135	100	10	23.7	14.8
400	280	6	**727 909 868**	5.388	135	100	10	23.7	16.6
400	315	6	**727 909 869**	4.880	135	100	10	22.7	17.9
400	355	6	**727 909 870**	4.395	135	100	13	22.7	20.1
450	225	6	**727 909 872**	8.881	150	110	10	26.7	13.4
450	250	6	**727 909 873**	8.577	150	110	10	26.7	14.8
450	280	6	**727 909 874**	7.684	150	100	15	25.5	15.9
450	315	6	**727 909 875**	7.005	150	100	15	25.5	17.9
450	355	6	**727 909 876**	6.405	150	100	15	25.5	20.1
450	400	6	**727 909 877**	5.942	150	100	15	25.5	22.7
500	225	6	**727 909 879**	11.545	165	115	10	29.7	13.4
500	250	6	**727 909 880**	11.273	165	115	10	29.7	14.8
500	280	6	**727 909 881**	10.916	165	115	10	29.7	16.6
500	315	6	**727 909 882**	10.003	165	115	10	28.4	17.9
500	355	6	**727 909 883**	9.672	165	115	10	28.4	20.1
500	400	6	**727 909 884**	8.231	165	115	10	28.4	22.7
500	450	6	**727 909 885**	7.599	165	115	25	28.4	25.5





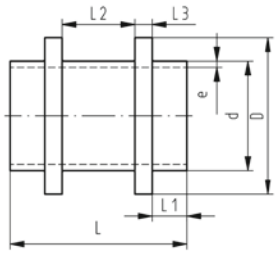
PROGEF Standard Fixpoint fitting SDR17.6/PN6

Model:

- Material: PP-H
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207
- Machined

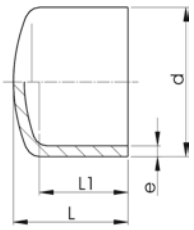
d (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D (mm)	e (mm)
63	6	IR	**727 665 539**	0.138	122	30	42	10	90	3.8
75	6	IR	**727 665 540**	0.203	122	30	42	10	110	4.5
90	6	IR	**727 665 541**	0.267	122	30	42	10	125	5.4
110	6	IR	**727 665 542**	0.438	142	30	52	15	140	6.6
125	6	IR	**727 665 543**	0.592	152	35	52	15	160	7.4
140	6	IR	**727 665 544**	0.781	162	40	52	15	180	8.3
160	6	IR	**727 665 545**	0.971	162	40	52	15	200	9.5
180	6	IR	**727 665 546**	1.464	182	45	52	20	225	10.7
200	6	IR	**727 665 547**	1.808	182	45	52	20	250	11.9
225	6	IR	**727 665 548**	2.549	192	45	52	25	280	13.4
250	6	IR	**727 665 549**	2.678	212	50	62	25	280	14.8
280	6	IR	**727 665 550**	3.668	222	50	62	30	315	16.6
315	6	IR	**727 665 551**	4.666	222	50	62	30	355	18.7

table continued on the next page



d (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D (mm)	e (mm)
355	6		**727 665 552**	5.567	192	30	62	35	400	21.1
400	6		**727 665 553**	7.835	212	30	72	40	450	23.7
450	6		**727 665 554**	10.552	232	35	72	45	500	26.7
500	6		**727 665 555**	14.608	252	40	72	50	560	29.7





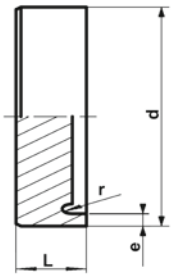
PROGEF Standard End cap SDR17.6/PN6

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H

d (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
50	6	IR	**727 968 710**	0.036	72	59	2.9
63	6	IR	**727 968 711**	0.061	83	66	3.6
75	6	IR	**727 968 712**	0.095	94	73	4.3
90	6	IR	**727 968 713**	0.160	110	83	5.1
110	6	IR	**727 968 714**	0.260	123	88	6.3
125	6	IR	**727 968 715**	0.360	127	92	7.1
140	6	IR	**727 968 716**	0.485	136	97	8.0
160	6	IR	**727 968 717**	0.735	161	109	9.1
180	6	IR	**727 968 718**	0.990	166	114	10.2
200	6	IR	**727 968 719**	1.310	179	117	11.4
225	6	IR	**727 968 720**	1.790	203	129	12.8





PROGEF Standard End cap short SDR17.6/PN6

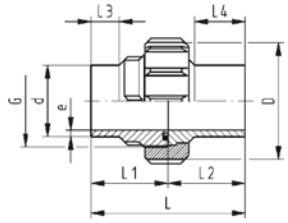
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- Machined

d (mm)	PN (bar)	Code	Weight (kg)	L (mm)	e (mm)
250	6	**727 968 821**	1.600	55	14.2
280	6	**727 968 822**	2.100	60	15.9
315	6	**727 968 823**	3.000	65	17.9
355	6	**727 968 824**	4.200	70	20.1
400	6	**727 968 825**	6.000	75	22.7
450	6	**727 968 826**	8.600	85	25.5
500	6	**727 968 827**	11.600	90	28.3

Butt fusion unions and o-rings





PROGEF Standard Union
SDR11/PN10

Model:

- Material: PP-H
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207

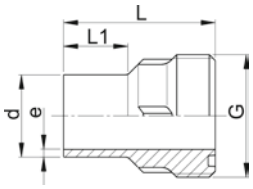
With butt fusion ends
Gasket: O-ring EPDM
For the dimensions d75-110 please see instructions for the installation
d75-d110 new thread design since 2022

d (mm)	PN (bar)	FM	EPDM Code	FKM Code	Weight (kg)
20	10	IR	**727 518 506**	**727 528 506**	0.047
25	10	IR	**727 518 507**	**727 528 507**	0.072
32	10	IR	**727 518 508**	**727 528 508**	0.100
40	10	IR	**727 518 509**	**727 528 509**	0.145
50	10	IR	**727 518 510**	**727 528 510**	0.190
63	10	IR	**727 518 511**	**727 528 511**	0.332
75	10	IR	**727 518 212**	**727 528 212**	0.520
90	10	IR	**727 518 213**	**727 528 213**	0.533
110	10	IR	**727 518 214**	**727 528 214**	0.754

d (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D (mm)	Thread size	e (mm)	Size	O-Ring EPDM
20	107.0	54.0	53.0	26	38	48	1	1.9	20,22 x 3,53	748.410.006
25	113.0	57.0	56.0	26	36	58	1 1/4	2.3	28,17 x 3,53	748.410.007
32	119.0	60.0	59.0	26	25	65	1 1/2	2.9	32,93 x 3,53	748.410.008
40	126.0	63.0	63.0	26	25	79	2	3.7	40,65 x 5,34	748.410.009
50	131.0	66.0	65.0	26	25	91	2 1/4	4.6	46,99 x 5,34	748.410.010
63	137.0	69.0	68.0	26	26	111	2 3/4	5.8	59,69 x 5,34	748.410.011
75	134.5	68.5	66.0	26	34	138	S110x5	6.8	66,04 x 5,33	748.410.024
90	134.5	68.5	66.0	26	45	138	S110x5	8.2	74,63 x 5,34	748.410.383
110	139.5	74.0	65.5	33	40	161	S130x5	10.0	94,62 x 5,34	748.410.248

d (mm)	O-Ring FKM
20	749.410.006
25	749.410.007
32	749.410.008
40	749.410.009
50	749.410.010
63	749.410.011
75	749.410.024
90	749.410.383
110	749.410.248



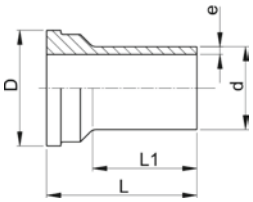


PROGEF Standard Union bush SDR11/PN10

d75-d110 new thread design since 2022

d (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	Size	e (mm)
20	10	IR	**727 848 506**	0.012	54	26	1	1.9
25	10	IR	**727 848 507**	0.020	57	26	1 1/4	2.3
32	10	IR	**727 848 508**	0.029	60	25	1 1/2	2.9
40	10	IR	**727 848 509**	0.047	63	25	2	3.7
50	10	IR	**727 848 510**	0.062	66	25	2 1/4	4.6
63	10	IR	**727 848 511**	0.107	69	25	2 3/4	5.8
75	10	IR	**727 848 212**	0.172	68	26	S110x5	6.8
90	10	IR	**727 848 213**	0.182	68	26	S110x5	8.2
110	10	IR	**727 848 214**	0.258	74	33	S130x5	10.0



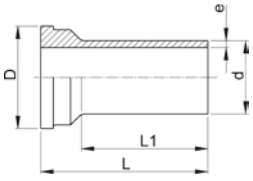


PROGEF Standard Union end PP-H PN10

*just for variable area flow meter

	d (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	D (mm)	e (mm)
	20	10	IR	**727 508 506**	0.009	53	38	30	1.9
	25	10	IR	**727 508 507**	0.017	57	42	39	2.3
	32	10	IR	**727 508 508**	0.026	60	41	45	2.9
	40	10	IR	**727 508 509**	0.043	63	42	57	3.7
	50	10	IR	**727 508 510**	0.058	66	44	63	4.6
	63	10	IR	**727 508 511**	0.095	69	45	78	5.8
	75	10	IR	**727 508 212**	0.146	66	34	103	6.8
*	75	10	IR	**700 256 401**	0.172	66	34	101	6.8
	90	10	IR	**727 508 213**	0.158	66	45	103	8.2
	110	10	IR	**727 508 214**	0.200	66	40	123	10.0



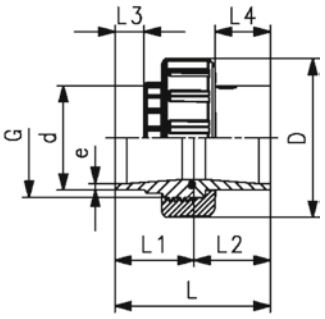


PROGEF Standard Union end long SDR11/PN10

Model:

- Material: PP-H
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207
- Suitable for unions, diaphragm valves type 314 and vortex sensors

d (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	D (mm)	e (mm)
20	10	IR	**727 608 516**	0.011	67	52	30	1.9
25	10	IR	**727 608 517**	0.018	71	53	39	2.3
32	10	IR	**727 608 518**	0.024	73	55	45	2.9
40	10	IR	**727 608 519**	0.041	81	60	57	3.7
50	10	IR	**727 608 520**	0.054	87	66	63	4.6
63	10	IR	**727 608 521**	0.122	93	70	78	5.8





PROGEF Standard Union
SDR17.6 (PN6)

Model:

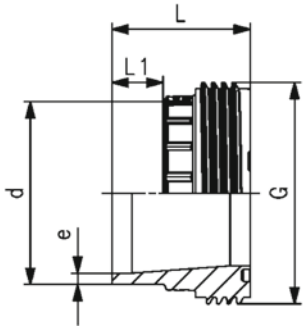
- Material: PP-H
- Jointing face: With O-ring groove
- **For the dimensions d75-110 please see instructions for the installation**
- With butt fusion ends
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207

d (mm)	PN (bar)	FM	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
75	6	IR	**727 518 112**	2	0.479	**727 528 112**	2	0.476
90	6	IR	**727 518 113**	2	0.483	**727 528 113**	2	0.483
110	6	IR	**727 518 114**	3	0.663	**727 528 114**	3	0.663

d (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D (mm)	Thread size	e (mm)	Size	O-Ring EPDM
75	134.5	68.5	66.0	26	34	138	S110x5	4.3	66,04 x 5,33	748.410.024
90	134.5	68.5	66.0	26	55	161	S110x5	5.1	74,63 x 5,34	748.410.383
110	139.5	74.0	65.5	33	55	191	S130x5	6.3	94,62 x 5,34	748.410.248

d (mm)	O-Ring FKM
75	749.410.024
90	749.410.383
110	749.410.248





PROGEF Standard Union bush
SDR17.6 (PN6)

Model:

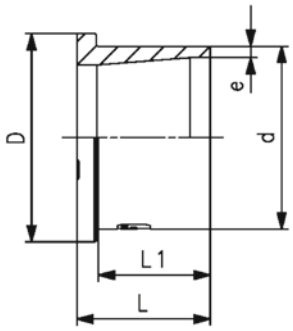
- Material: PP-H
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207

With butt fusion ends

For the dimensions d75-110 please see instructions for the installation

d (mm)	PN (bar)	FM	Code	SP	Weight (kg)	L (mm)	L1 (mm)	Size	e (mm)
75	6	IR	**727 848 112**	10	0.172	68	26	S110x5	4.3
90	6	IR	**727 848 113**	10	0.182	68	26	S110x5	5.1
110	6	IR	**727 848 114**	10	0.258	74	33	S130x5	6.3





PROGEF Standard Union end SDR17.6 (PN6)

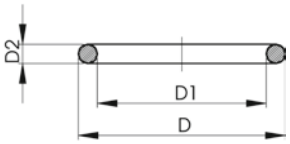
Model:

- Material: PP-H
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207

For the dimensions d75-110 please see instructions for the installation

d (mm)	PN (bar)	FM	Code	SP	Weight (kg)	L (mm)	L1 (mm)	D (mm)	e (mm)
75	6	IR	**727 508 112**	10	0.146	66	34	103	4.3
90	6	IR	**727 508 113**	20	0.130	66	45	103	5.1
110	6	IR	**727 508 114**	10	0.233	66	55	123	6.3





O-Ring Union EPDM/FKM

Model:

- For ecoFIT, PROGEF Std/Plus, SYGEF Std unions and adapter unions for butt fusion
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°C
- FKM minimum temperature -15°C

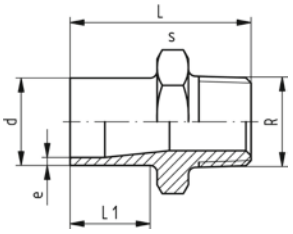
Note:

For the O-Rings of new unions as of 10/2022, see respective union datasheet

d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	D (mm)	D1 (mm)	D2 (mm)
75 / 90	65 / 80	**748 410 383**	0.006	**749 410 383**	85.31	74.63	5.34
110	110	**748 410 384**	0.016	**749 410 384**	128.68	114.70	6.99

Butt fusion transition fittings





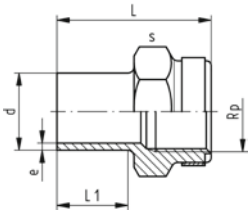
PROGEF Standard Adaptor nipple
Metric R SDR11 (PN10)

Model:

- Material: PP-H
- With butt fusion spigot and BSP tapered male thread
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	FM	Code	SP	Weight (kg)	L (mm)	L1 (mm)	s (mm)	e (mm)
20	R	½	10	IR	**727 910 556**	10	0.013	51	23	32	1.9
25	R	¾	10	IR	**727 910 557**	10	0.014	52	23	36	2.3
32	R	1	10	IR	**727 910 558**	10	0.027	55	23	46	2.9
40	R	1 ¼	10	IR	**727 910 559**	10	0.041	58	23	55	3.7
50	R	1 ½	10	IR	**727 910 560**	10	0.062	60	23	65	4.6
63	R	2	10	IR	**727 910 561**	5	0.096	67	26	80	5.8





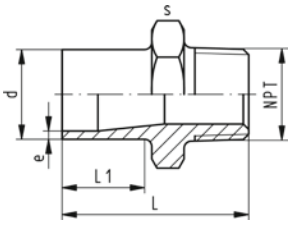
PROGEF Standard Adaptor socket
Metric Rp SDR11 (PN10)

Model:

- Material: PP-H
- With butt fusion spigot **SDR11** and BSP parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	FM	Code	SP	Weight (kg)	L (mm)	L1 (mm)	s (mm)	e (mm)
20	Rp	½	10	IR	**727 910 266**	10	0.017	49	23	32	1.9
25	Rp	¾	10	IR	**727 910 267**	10	0.022	50	23	36	2.3
32	Rp	1	10	IR	**727 910 268**	10	0.038	54	23	46	2.9
40	Rp	1 ¼	10	IR	**727 910 269**	10	0.066	56	23	55	3.7
50	Rp	1 ½	10	IR	**727 910 270**	10	0.090	60	23	65	4.6
63	Rp	2	10	IR	**727 910 271**	20	0.123	62	23	80	5.8





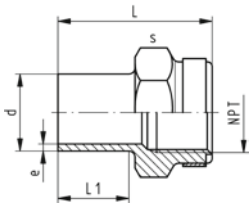
PROGEF Standard Adaptor nipple
PN10 Metric NPT male SDR11

Model:

- Material: PP-H
- With butt fusion spigot **SDR11** and NPT tapered male thread
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	s (mm)	e (mm)
20	NPT	½	10	IR	**727 914 656**	0.013	51	23	32	1.9
25	NPT	¾	10	IR	**727 914 657**	0.026	52	23	36	2.3
32	NPT	1	10	IR	**727 914 658**	0.026	55	23	46	2.9
40	NPT	1 ¼	10	IR	**727 914 659**	0.041	58	24	55	3.7
50	NPT	1 ½	10	IR	**727 914 660**	0.062	60	23	65	4.6
63	NPT	2	10	IR	**727 914 661**	0.097	67	26	80	5.8





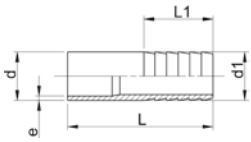
PROGEF Standard Adaptor nipple
SDR11/PN10 Metric NPT female

Model:

- Material: PP-H
- With butt fusion spigot **SDR11** and NPT tapered female thread, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Size (inch)	PN (bar)	FM	Thread Type	Code	Weight (kg)	L (mm)	L1 (mm)	s (mm)	e (mm)
20	½	10	IR	NPT	**727 914 356**	0.017	49	23	32	1.9
25	¾	10	IR	NPT	**727 914 357**	0.022	51	23	36	2.3
32	1	10	IR	NPT	**727 914 358**	0.039	54	23	46	2.9
40	1 ¼	10	IR	NPT	**727 914 359**	0.057	56	23	55	3.7
50	1 ½	10	IR	NPT	**727 914 360**	0.085	60	23	65	4.6
63	2	10	IR	NPT	**727 914 361**	0.122	62	23	80	5.8





PROGEF Standard Hose Connector
Metric SDR11 (PN10)

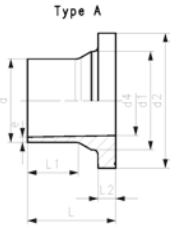
d (mm)	PN (bar)	d1 (mm)	FM	Code	SP	Weight (kg)	L (mm)	L1 (mm)	e (mm)
20	10	20	IR	**727 968 606**	10	0.007	64	27	1.9
25	10	25	IR	**727 968 607**	10	0.014	75	36	2.3
32	10	32	IR	**727 968 608**	10	0.022	82	36	2.9
40	10	40	IR	**727 968 609**	10	0.032	84	42	3.7
50	10	50	IR	**727 968 810**	10	0.053	90	48	4.6
63	10	60	IR	**727 968 811**	5	0.088	119	50	5.8

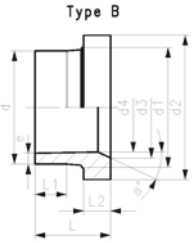
Butt fusion flange adaptors, flanges and gaskets

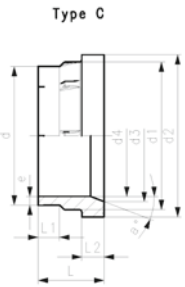












PROGEF Standard Flange adaptor PP-H
SDR11/PN10 Combined jointing face: flat and serrated

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR- Infrared welding compatible
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Up to d315, suitable for butterfly valve type 567/578 and 038/039. Above use PROGEF Standard adaptor for butterfly valves SDR11 (d355-d500)
- Gasket: profile flange gasket EPDM No. 48 44 07, FKM No. 49 44 07

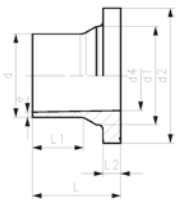
* Material: PP-R, not suitable for butterfly valves

	d (mm)	DN (mm)	PN (bar)	FM	Type	Code	Weight (kg)
	20	15	10	IR	A	**727 798 706**	0.015
	25	20	10	IR	A	**727 798 707**	0.029
	32	25	10	IR	A	**727 798 708**	0.042
	40	32	10	IR	A	**727 798 709**	0.061
	50	40	10	IR	A	**727 798 710**	0.091
	63	50	10	IR	A	**727 798 711**	0.144
	75	65	10	IR	B	**727 798 712**	0.243
	90	80	10	IR	B	**727 798 713**	0.324
	110	100	10	IR	B	**727 798 714**	0.441
	125	100	10	IR	B	**727 798 715**	0.520
	140	125	10	IR	B	**727 798 716**	0.800
	160	150	10	IR	B	**727 798 117**	1.060
	180	150	10	IR	B	**727 798 318**	1.026
	200	200	10	IR	C	**727 798 319**	1.652
	225	200	10	IR	C	**727 798 120**	2.100
	250	250	10	IR	C	**727 798 521**	2.630
	280	250	10	IR	C	**727 798 322**	2.521
	315	300	10	IR	C	**727 798 523**	3.247
*	355	350	10		C	**727 798 324**	6.600
*	400	400	10		C	**727 798 325**	9.100
*	450	500	10		C	**727 798 326**	17.300
*	500	500	10		C	**727 798 327**	18.400

	d (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	a
	20	26	45		16	50	29	7	2.1	
	25	32	58		20	52	27	9	2.3	
	32	40	68		26	54	28	10	2.9	
	40	49	78		32	56	25	11	3.7	
	50	60	88		40	62	32	12	4.6	
	63	75	102		49	68	38	14	6.2	
	75	89	122	66	61	80	43	16	6.9	30
	90	105	138	78	73	80	41	17	8.2	30
	110	125	158	100	87	80	41	18	11.0	30
	125	132	158	114	102	82	35	25	11.4	25
	140	155	188	127	114	89	39	25	12.8	27
	160	175	212	151	127	107	40	25	14.6	30
	180	180	212	154	148	92	40	30	17.4	30
	200	232	268	203	174	100	35	32	19.3	30
	225	235	268	210	180	133	45	32	20.5	30
	250	285	320	252	203	120	45	36	24.0	
	280	291	328	262	228	120	45	37	26.8	28
	315	335	370	300	256	150	50	52	30.2	22

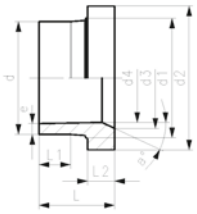
table continued on the next page

Type A



	d (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	a
*	355	373	430	348	282	162	70	40	33.9	45
*	400	427	490	392	318	172	70	46	38.2	45
*	450	514	596	401	358	225	105	60	43.0	15
*	500	530	595	442	400	231	105	60	47.8	15

Type B



Type C





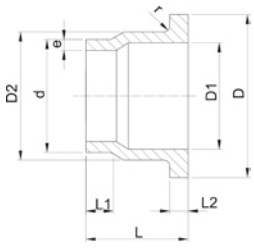
PROGEF Standard Outlet flange adaptor SDR11/PN10

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- To wafer check valves type 369

Attention:

- In conjunction with Outlet flange adaptors, **flange rings for socket systems** must be used.



d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	D (mm)	D1 (mm)	D2 (mm)	r (mm)	e (mm)
40	32	10	**727 808 034**	0.172	64	30	11	80	37	50	3	3.7
50	40	10	**727 808 035**	0.096	67	30	12	90	43	61	3	4.6
63	50	10	**727 808 036**	0.157	74	30	14	105	54	76	4	5.8
75	65	10	**727 808 037**	0.223	78	30	16	125	70	90	4	6.8
90	80	10	**727 808 038**	0.325	87	35	17	140	82	108	4	8.2
110	100	10	**727 808 039**	0.475	102	41	18	160	105	131	4	10.0
140	125	10	**727 808 041**	0.899	124	47	25	190	130	165	4	12.7
160	150	10	**727 808 042**	1.246	149	52	25	215	158	188	4	14.6
225	200	10	**727 808 045**	2.638	180	55	32	270	206	248	4	20.5
280	250	10	**727 808 047**	4.088	240	63	35	325	259	308	4	25.4
315	300	10	**727 808 048**	4.960	272	66	35	375	308	346	4	28.6



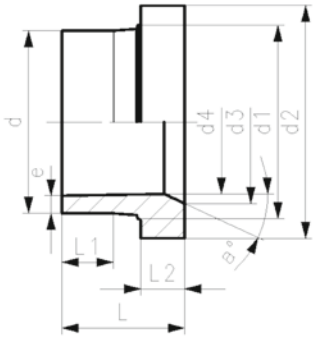
PROGEF Standard Flange adaptor for butterfly valves SDR11/PN10

Model:

- Material: PP-R
- Conventional butt-welding according to DVS 2207
- Suitable for butterfly valve type 567/578 and 038/039

d (mm)	DN (mm)	PN (bar)	Type	Code	Weight (kg)
355	350	10	B	**727 798 924**	7.300
400	400	10	B	**727 798 925**	10.200
450	500	10	B	**727 798 926**	17.900
500	500	10	B	**727 798 927**	20.100

Type B



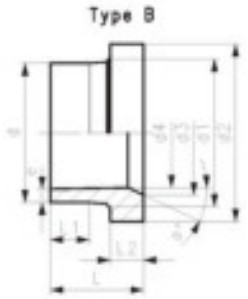
d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	a
373	430	350	284	187	70	65	33.9	25
427	482	400	320	196	70	70	38.2	25
467	533	450	360	272	105	107	43.0	23
530	585	498	400	261	105	90	47.8	25

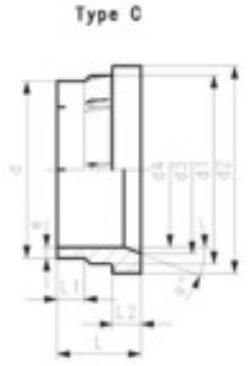












PROGEF Standard Flange adaptor
SDR17.6/PN6 combined jointing face: flat and serrated

Model:

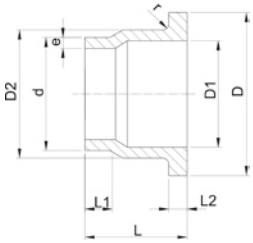
- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR- Infrared welding compatible
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Up to d400, suitable for butterfly valve type 567/578 and 038/039. Above use PROGEF Standard adaptor for butterfly valves SDR17.6 (d450-d500)
- Gasket: profile flange gasket EPDM No. 48 44 07, FKM No. 49 44 07

* Material:PP-R
**Material: PP-R, not suitable for butterfly valves

	d (mm)	DN (mm)	PN (bar)	FM	Type	Code	Weight (kg)
	50	40	6	IR	A	**727 798 210**	0.077
	63	50	6	IR	A	**727 798 211**	0.116
	75	65	6	IR	A	**727 798 787**	0.204
	90	80	6	IR	A	**727 798 788**	0.273
	110	100	6	IR	A	**727 798 789**	0.361
	125	100	6	IR	B	**727 798 215**	0.386
	140	125	6	IR	B	**727 798 216**	0.597
*	160	150	6	IR	B	**727 798 417**	0.730
	180	150	6	IR	A	**727 798 218**	0.630
	200	200	6	IR	C	**727 798 219**	1.268
**	225	200	6	IR	C	**727 798 420**	1.420
	250	250	6	IR	C	**727 798 421**	2.130
	280	250	6	IR	C	**727 798 222**	1.785
	315	300	6	IR	C	**727 798 423**	2.499
*	355	350	6		C	**727 798 224**	4.600
*	400	400	6		C	**727 798 225**	6.100
**	450	500	6		C	**727 798 226**	12.100
**	500	500	6		C	**727 798 227**	12.700

	d (mm)	DN (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	a
	50	40	60	88		44	62	32	12	3.0	
	63	50	75	102		55	68	38	14	3.8	
	75	65	89	122		63	80	43	16	4.5	
	90	80	105	138		78	80	42	17	5.4	
	110	100	125	158		94	80	42	18	6.6	
	125	100	132	158	114	110	82	35	25	7.4	25.0
	140	125	155	188	127	123	89	39	25	8.3	27.0
*	160	150	175	212	158	142	100	40	19	9.1	30.0
	180	150	180	212		158	92	45	20	10.7	
	200	200	232	268	203	174	100	42	24	11.9	30.0
**	225	200	235	268	210	199	125	45	24	12.8	30.0
	250	250	285	320	252	221	120	45	26	14.8	25.0
	280	250	291	320	265	247	120	45	35	16.6	30.0
	315	300	335	370	300	278	150	50	51	18.7	21.0
*	355	350	373	430	346	310	155	70	33	21.1	21.0
*	400	400	427	482	395	350	162	70	36	23.7	21.0
**	450	500	514	585	400	400	211	105	46	26.7	4.0
**	500	500	530	585	442	442	217	105	46	29.7	1.5





PROGEF Standard Outlet flange adaptor SDR17.6/PN6

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- To wafer check valves type 369

Attention:

- In conjunction with Outlet flange adaptors, **flange rings for socket systems** must be used.

d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	D (mm)	D1 (mm)	D2 (mm)	r (mm)	e (mm)
40	32	6	**727 808 009**	0.048	64	30	11	80	37	50	3	2.3
50	40	6	**727 808 010**	0.091	67	30	12	90	43	61	3	2.9
63	50	6	**727 808 011**	0.096	74	30	14	105	54	76	4	3.6
75	65	6	**727 808 012**	0.170	78	30	16	125	70	90	4	4.3
90	80	6	**727 808 013**	0.260	87	35	17	140	82	108	4	5.1
110	100	6	**727 808 014**	0.429	102	41	18	160	105	131	4	6.3
140	125	6	**727 808 016**	0.808	124	47	18	190	130	165	4	8.0
160	150	6	**727 808 017**	1.107	149	52	18	215	158	188	4	9.1
225	200	6	**727 808 020**	2.324	180	55	24	270	206	248	4	12.7
280	250	6	**727 808 022**	3.563	240	63	25	325	259	308	4	15.9
315	300	6	**727 808 023**	2.450	272	66	25	375	308	346	4	17.9



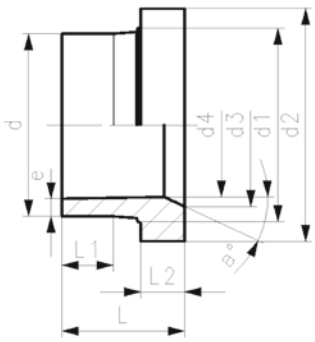
PROGEF Standard Flange adaptor for butterfly valves SDR17.6/PN6

Model:

- Material: PP-R
- Conventional butt-welding according to DVS 2207
- Suitable for butterfly valve type 567/578 and 038/039

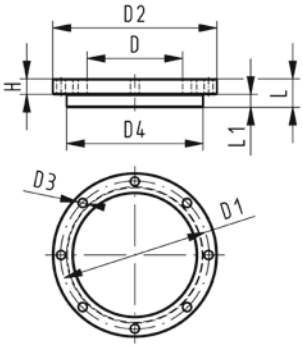
d (mm)	DN (mm)	PN (bar)	Type	Code	Weight (kg)
500	500	6	B	**727 798 952**	11.500
450	500	6	B	**727 798 951**	10.200

Type B



d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	a
530	585	498	440	217	105	46	30.5	25
467	533	450	397	224	105	59	27.5	23





Blanking flange set PP-H
Combined jointing face flat and serrated metric

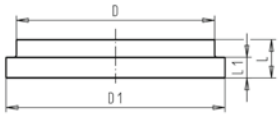
Model:

- d63 - d315: backing flange PP-V with end blank PP-H
- d355 - d630: backing flange PP/Steel with end blank PP-H
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501
- **Bolt circle PN 10**

AL: number of holes
L: height backing ring + collar thickness end blank

d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	D4 (mm)	L (mm)	L1 (mm)	H (mm)	AL
63	50	10	**727 700 611**	0.531	75	125	165	18	102	38	14	24	4
75	65	10	**727 700 612**	0.901	89	145	185	18	122	42	16	26	4
90	80	10	**727 700 613**	1.054	105	160	200	18	138	44	17	27	8
110	100	10	**727 700 614**	1.199	125	180	220	18	158	46	18	28	8
125	100	10	**727 700 615**	1.201	132	180	220	18	158	53	25	28	8
140	125	10	**727 700 616**	1.748	155	210	250	18	188	55	25	30	8
160	150	10	**727 700 617**	2.312	175	240	285	22	212	57	25	32	8
180	150	10	**727 700 618**	2.443	180	240	285	22	212	62	30	32	8
200	200	10	**727 700 619**	3.961	232	295	340	22	268	66	32	34	8
225	200	10	**727 700 620**	3.956	235	295	340	22	268	66	32	34	8
250	250	10	**727 700 621**	5.425	285	350	395	22	320	73	35	38	12
280	250	10	**727 700 622**	19.781	291	350	395	22	320	73	35	38	12
315	300	10	**727 700 623**	8.602	335	400	445	22	370	77	35	42	12
355	350	10	**727 700 624**	23.184	373	460	515	22	430	80	40	40	16
400	400	10	**727 700 625**	30.304	427	515	574	26	482	86	46	40	16
450	500	10	**727 700 626**	43.485	510	620	684	26	585	109	60	49	20
500	500	10	**727 700 627**	46.203	530	620	684	26	585	109	60	49	20





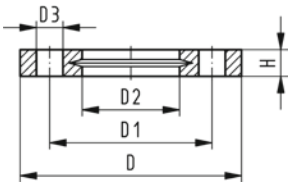
End blank PP-H
For butt fusion systems metric

Model:

- Suitable for metric backing flanges

d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)
63	50	10	**727 960 811**	0.167	75	102	30	14
75	65	10	**727 960 812**	0.254	89	122	30	16
90	80	10	**727 960 813**	0.336	105	138	30	17
110	100	10	**727 960 814**	0.470	125	158	30	18
125	100	10	**727 960 815**	0.458	132	158	35	25
140	125	10	**727 960 816**	0.683	155	188	40	25
160	150	10	**727 960 817**	0.912	175	212	40	25
180	150	10	**727 960 818**	1.316	180	212	45	30
200	200	10	**727 960 819**	2.337	232	268	50	32
225	200	10	**727 960 820**	1.958	235	268	50	32
250	250	10	**727 960 821**	3.025	285	320	55	35
280	250	10	**727 960 822**	3.981	291	320	60	35
315	300	10	**727 960 823**	5.028	335	370	65	35
355	350	10	**727 960 824**	7.374	373	430	70	40
400	400	10	**727 960 825**	10.504	427	482	75	46
450	500	10	**727 960 826**	18.720	510	585	80	60
500	500	10	**727 960 827**	21.903	530	585	90	60





Flanges PP-V (full plastic)

Model:

- Full-plastic flange PP-GF (30 % glass-fibre reinforced)
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D2024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

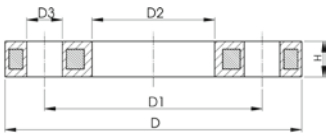
AL: number of holes

d (mm)	DN (mm)	d (inch)	PN (bar)	Bolt / circle	Design	Code	Weight (kg)
20	15		16	PN10	Butt/Socket	**727 700 406**	0.093
25	20		16	PN10	Butt/Socket	**727 700 407**	0.120
32	25		16	PN10	Butt/Socket	**727 700 408**	0.151
40	32		16	PN10	Butt/Socket	**727 700 409**	0.244
50	40		16	PN10	Butt/Socket	**727 700 410**	0.297
63	50		16	PN10	Butt/Socket	**727 700 411**	0.362
75	65		16	PN10	Butt/Socket	**727 700 412**	0.487
90	80		16	PN10	Butt	**727 700 513**	0.544
110	100		16	PN10	Butt	**727 700 514**	0.643
125	100		16	PN10	Butt	**727 700 515**	0.635
140	125		16	PN10	Butt	**727 700 516**	0.842
160	150	6	16	PN10/ class 150	Butt	**727 700 517**	1.200
180	150		16	PN10/ Class 150	Butt	**727 700 518**	1.200
200	200	8	16	PN10/ class 150	Butt	**727 700 519**	1.400
225	200	8	16	PN10/ class 150	Butt	**727 700 520**	1.400
250	250		10	PN10	Butt	**727 700 521**	2.052
280	250		10	PN10	Butt	**727 700 522**	1.700
315	300		10	PN10	Butt	**727 700 523**	2.400
355	350		10	PN10	Butt	**727 700 524**	4.440
400	400		10	PN10	Butt	**727 700 525**	5.624

d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	Hmax (mm)	AL	M
20	95	65	28	14	16	4	M12
25	105	75	34	14	17	4	M12
32	115	85	42	14	18	4	M12
40	140	100	51	18	20	4	M16
50	150	110	62	18	22	4	M16
63	165	125	78	18	24	4	M16
75	185	145	92	18	26	4	M16
90	200	160	108	18	27	8	M16
110	220	180	128	18	28	8	M16
125	220	180	135	18	28	8	M16
140	250	210	158	18	30	8	M16
160	285	240	178	22	32	8	M20
180	285	240	188	22	32	8	M20
200	340	297	235	22	34	8	M20
225	340	297	238	22	34	8	M20
250	395	350	288	22	38	12	M20
280	395	350	294	22	38	12	M20
315	445	400	338	22	42	12	M20
355	515	460	376	22	46	16	M20
400	574	515	430	26	50	16	M24







Flanges PP-Steel

Model:

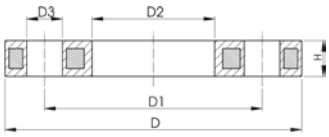
- Material: PP (30% glass-fibre reinforced) with steel ring
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D4024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes
* FM 1613 approved - 15 bar
** Profiled loose flange

	d (mm)	Size (inch)	DN (mm)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
	20		15	16	Metric	PN10	Butt/Socket	**727 700 206**	0.216
	25		20	16	Metric	PN10	Butt/Socket	**727 700 207**	0.279
	40		32	16	Metric	PN10	Butt/Socket	**727 700 209**	0.621
	50		40	16	Metric	PN10	Butt/Socket	**727 700 210**	0.722
	63	2	50	16	Metric	PN10	Butt/Socket	**727 700 211**	0.900
	75		65	16	Metric	PN10	Butt/Socket	**727 700 212**	1.110
*	90		80	16	Metric	PN10	Butt	**724 700 313**	1.390
	90		80	16	Metric	PN10	Butt	**727 700 313**	1.390
*	110		100	16	Metric	PN10	Butt	**724 700 314**	1.407
	110		100	16	Metric	PN10	Butt	**727 700 314**	1.407
*	125		100	16	Metric	PN10	Butt	**724 700 315**	1.408
	125		100	16	Metric	PN10	Butt	**727 700 315**	1.408
*	140		125	16	Metric	PN10	Butt	**724 700 316**	2.318
	140		125	16	Metric	PN10	Butt	**727 700 716**	2.318
	140	5	125	16	ASME	class 150	Butt	**727 701 315**	2.575
*	160	6	150	16	Metric	PN10	Butt	**724 700 317**	3.491
	160	6	150	16	Metric/ASME	PN10/ class 150	Butt	**727 700 717**	3.491
*	180		150	16	Metric	PN10	Butt	**724 700 318**	3.108
	180		150	16	Metric/ASME	PN10/ Class 150	Butt	**727 700 718**	3.108
*, **	200		200	16	Metric	PN16	Butt	**724 700 319**	3.549
	200	8	200	16	Metric/ASME	PN10/ class 150	Butt	**727 700 719**	5.600
*, **	225		200	16	Metric	PN16	Butt	**724 700 320**	3.380
	225	8	200	16	Metric/ASME	PN10/ class 150	Butt	**727 700 720**	5.533
*, **	250		250	16	Metric	PN16	Butt	**724 700 321**	6.390
	250		250	16	Metric	PN10	Butt	**727 700 721**	6.632
*, **	280		250	16	Metric	PN16	Butt	**724 700 322**	6.310
	280		250	16	Metric	PN10	Butt	**727 700 722**	6.573
*, **	315		300	16	Metric	PN16	Butt	**724 700 323**	9.740
	315		300	16	Metric	PN10	Butt	**727 700 723**	7.903
*, **	355		350	16	Metric	PN16	Butt	**724 700 324**	15.203
	355		350	16	Metric	PN10	Butt	**727 700 724**	14.587
*, **	400		400	16	Metric	PN16	Butt	**724 700 325**	20.600
	400		400	16	Metric	PN10	Butt	**727 700 725**	20.034
*, **	450		500	10	Metric	PN10	Butt	**724 700 426**	25.600
*, **	500		500	10	Metric	PN10	Butt	**724 700 427**	21.061
**	560		600	10	Metric	PN10	Butt	**724 700 428**	35.000
**	630		600	10	Metric	PN10	Butt	**724 700 429**	28.500
**	710		700	6	Metric	PN10	Butt	**724 700 430**	25.500
**	800		800	6	Metric	PN10	Butt	**724 700 431**	39.300
**	900		900	6	Metric	PN10	Butt	**724 700 432**	48.500

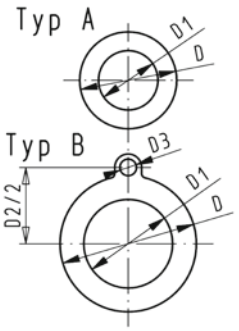
d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	Hmax (mm)	AL	M
20	95	65	28	14	12	4	M12
25	105	75	34	14	12	4	M12
40	140	100	51	18	16	4	M16
50	150	110	62	18	20	4	M16
63	165	125	78	18	20	4	M16
75	185	145	92	18	20	4	M16

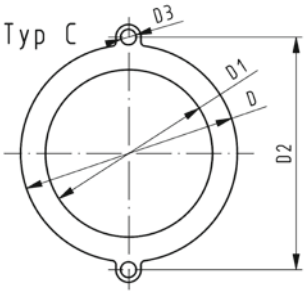
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	d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	Hmax (mm)	AL	M
*	90	200	160	108	18	20	8	M16
	90	200	160	108	18	20	8	M16
*	110	223	180	128	18	20	8	M16
	110	220	180	128	18	20	8	M16
*	125	223	180	135	18	20	8	M16
	125	220	180	135	18	20	8	M16
*	140	250	210	158	18	24	8	M16
	140	250	210	158	18	24	8	M16
	140	253	216	158	21	24	8	M16
*	160	285	240	178	22	28	8	M20
	160	285	240	178	22	24	8	M20
*	180	285	240	188	22	28	8	M20
	180	285	240	188	22	24	8	M20
*, **	200	344	295	235	22	31	12	M20
	200	340	295	235	22	27	8	M20
*, **	225	344	295	238	22	31	12	M20
	225	340	297	238	22	27	8	M20
*, **	250	410	355	288	26	35	12	M24
	250	395	350	288	22	30	12	M20
*, **	280	410	355	294	26	36	12	M24
	280	395	350	294	22	30	12	M20
*, **	315	455	410	338	26	43	12	M24
	315	445	400	338	22	34	12	M20
*, **	355	521	470	376	26	55	16	M24
	355	515	460	376	23	40	16	M20
*, **	400	582	525	430	30	56	16	M27
	400	574	515	430	26	40	16	M24
*, **	450	685	620	517	26	56	20	M24
*, **	500	685	620	533	26	56	20	M24
**	560	796	725	618	30	68	20	M27
**	630	800	725	645	30	68	20	M27
**	710	912	840	740	30	49	24	M27
**	800	1026	950	843	33	58	24	M30
**	900	1129	1050	947	33	62	28	M30







Flat gasket
EPDM

Model:

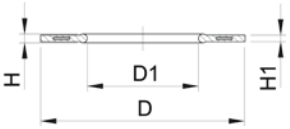
- For all metric GF Flange Adaptors
- Hardness approx. 65° Shore
- Integrated fixation aids from d110
- Centering on the inner diameter of the screw crown

di FA are the suitable inner diameters of flanges adaptors

d (mm)	DN (mm)	PN (bar)	Type	EPDM Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	Suitable for
16	10	10	A	**748 400 305**	0.004	46	16			2	6 - 26
20	15	10	A	**748 400 306**	0.012	51	20			2	10 - 30
25	20	10	A	**748 400 307**	0.004	61	25			2	15 - 35
32	25	10	A	**748 400 308**	0.008	71	32			2	22 - 42
40	32	10	A	**748 400 309**	0.013	82	40			3	30 - 50
50	40	10	A	**748 400 310**	0.016	92	50			3	40 - 60
63	50	10	A	**748 400 311**	0.018	107	63			3	53 - 73
75	65	10	A	**748 400 312**	0.029	127	71			3	61 - 81
90	80	10	A	**748 400 313**	0.035	142	84			3	74 - 94
110	100	10	B	**748 400 314**	0.051	162	104	180	18	4	94 - 114







Profile Flange Gasket EPDM/FKM
metric

Model:

- For all metric GF Flange Adaptors
- Hardness: 70° Shore EPDM, 75° Shore FKM
- EPDM: approved acc. to DVGW Water W 270, KTW recommendation
- Centering on the inner diameter of the screw crown
- material steel insert: carbon steel
- Rubber-steel body combined with rubber profile cord ring up to d630
- Rubber-steel body ideal for big dimensions (d710 - d1000)

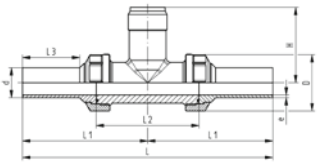
di FA are the suitable inner diameters of flanges adaptors

d (mm)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)	H1 (mm)
16	10	16	**748 440 705**	0.008	**749 440 705**	0.012	46	16	4	3
20	15	16	**748 440 706**	0.009	**749 440 706**	0.013	51	20	4	3
25	20	16	**748 440 707**	0.015	**749 440 707**	0.014	61	22	4	3
32	25	16	**748 440 708**	0.013	**749 440 708**	0.019	71	28	4	3
40	32	16	**748 440 709**	0.019	**749 440 709**	0.026	82	40	4	3
50	40	16	**748 440 710**	0.029	**749 440 710**	0.039	92	46	4	3
63	50	16	**748 440 711**	0.041	**749 440 711**	0.050	107	58	5	4
75	65	16	**748 440 712**	0.053	**749 440 712**	0.082	127	69	5	4
90	80	16	**748 440 713**	0.064	**749 440 713**	0.083	142	84	5	4
110	100	16	**748 440 714**	0.100	**749 440 714**	0.127	162	104	6	5

Butt fusion installation fittings







PROGEF Standard installation fitting type 318 SDR11/PN10 For butt fusion systems metric

Model:

- Material: PP-H
- Threaded outlet 1 ¼" NPSM
- Union end with butt fusion spigot PP-H

Range of use:

- Compatible Signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- Compatible Signet pH/ORP sensors: type 2724, 2725, 2726, 2734, 2736, 2735

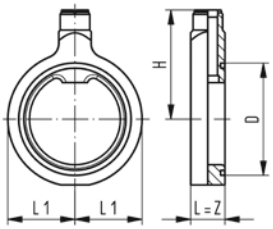
Attention:

- sensor length depends on installation fitting

d (mm)	DN (mm)	FM	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	IR	**727 318 006**	0.151	**727 318 036**	0.136
25	20	IR	**727 318 007**	0.190	**727 318 037**	0.208
32	25	IR	**727 318 008**	0.250	**727 318 038**	0.250
40	32	IR	**727 318 009**	0.356	**727 318 039**	0.358
50	40	IR	**727 318 010**	0.510	**727 318 040**	0.510
63	50	IR	**727 318 011**	0.800	**727 318 041**	0.800

d (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D (mm)	H (mm)	e (mm)	Insertion Sensor Length
20	224	112	90	52	48	76	2	X0 (DN15 – DN100, 1/2" to 4")
25	242	121	100	53	58	78	2	X0 (DN15 – DN100, 1/2" to 4")
32	256	128	110	55	65	81	3	X0 (DN15 – DN100, 1/2" to 4")
40	272	136	110	60	79	85	4	X0 (DN15 – DN100, 1/2" to 4")
50	294	147	120	66	91	89	5	X0 (DN15 – DN100, 1/2" to 4")
63	316	158	130	70	105	95	6	X0 (DN15 – DN100, 1/2" to 4")





PROGEF Standard installation fitting type 311 PN10

Range of use:

- Compatible Signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512

Attention:

- sensor length depends on installation fitting

Model:

- Material: PP-H
- Threaded outlet 1 ¼" NPSM
- Suitable for backing flanges metric and inch
- Suitable for SDR 11 - SDR 17.6
- Delivered with profile O-ring

d (inch)	d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
2 ½	75	65	**727 311 012**	0.430	**727 311 042**	0.460
3	90	80	**727 311 013**	0.528	**727 311 043**	0.542
4	110	100	**727 311 014**	0.652	**727 311 044**	0.668
	125	100	**727 311 015**	0.565	**727 311 045**	0.595
5	140	125	**727 311 016**	0.816	**727 311 046**	0.842
6	160	150	**727 311 017**	0.983	**727 311 047**	0.984
	180	150	**727 311 018**	0.828	**727 311 048**	0.868
8	200	200	**727 311 019**	1.524	**727 311 049**	1.578
8	225	200	**727 311 020**	1.278	**727 311 050**	1.332
10	250	250	**727 311 021**	2.133	**727 311 051**	2.209
10	280	250	**727 311 022**	1.760	**727 311 052**	1.836
12	315	300	**727 311 023**	2.409	**727 311 053**	2.495

d (inch)	d (mm)	D (mm)	L (mm)	L1 (mm)	H (mm)	Insertion Sensor Length
2 ½	75	88	48	61	133	X1 (DN125 - DN200, 5" to 8")
3	90	102	48	69	140	X1 (DN125 - DN200, 5" to 8")
4	110	132	48	79	149	X1 (DN125 - DN200, 5" to 8")
	125	132	48	79	144	X1 (DN125 - DN200, 5" to 8")
5	140	157	48	94	149	X1 (DN125 - DN200, 5" to 8")
6	160	182	48	106	156	X1 (DN125 - DN200, 5" to 8")
	180	182	48	106	163	X1 (DN125 - DN200, 5" to 8")
8	200	236	48	134	170	X1 (DN125 - DN200, 5" to 8")
8	225	236	48	134	178	X1 (DN125 - DN200, 5" to 8")
10	250	289	48	160	263	X2 (DN250 - DN900, 10" to 36")
10	280	289	48	160	273	X2 (DN250 - DN900, 10" to 36")
12	315	329	48	185	285	X2 (DN250 - DN900, 10" to 36")



PROGEF Standard installation fitting type 312 metric

Model:

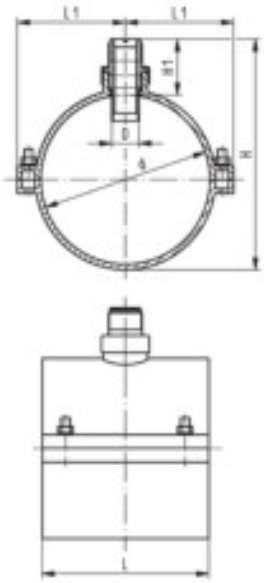
- Material: PP-H
- Threaded outlet 1 ¼" NPSM
- Top saddle with EPDM gasket
- Stainless steel bolts and nuts

Range of use:

- Compatible Signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- suitable for all plastic pipes

Attention:

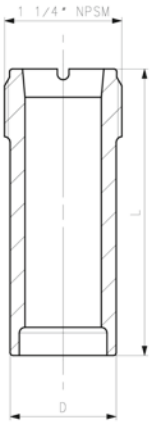
- sensor length depends on installation fitting
- working temperature max. +40°C (water)



d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	H (mm)	H1 (mm)	D (mm)	Insertion Sensor Length
75	65	8	**727 312 072**	0.488	78	62	172	88	34	X1 (DN125 - DN200, 5" to 8")
90	80	8	**727 312 073**	0.514	86	69	186	87	34	X1 (DN125 - DN200, 5" to 8")
110	100	8	**727 312 074**	0.602	98	79	206	86	34	X1 (DN125 - DN200, 5" to 8")
125	100	8	**727 312 075**	0.667	101	85	212	78	34	X1 (DN125 - DN200, 5" to 8")
140	125	6	**727 312 076**	0.949	114	104	227	75	34	X1 (DN125 - DN200, 5" to 8")
160	150	6	**727 312 077**	0.985	114	114	243	72	34	X1 (DN125 - DN200, 5" to 8")
180	150	6	**727 312 078**	2.118	168	134	348	144	34	X2 (DN250 - DN900, 10" to 36")
200	200	6	**727 312 079**	2.045	168	132	357	142	34	X2 (DN250 - DN900, 10" to 36")
225	200	5	**727 312 080**	2.211	174	146	375	136	34	X2 (DN250 - DN900, 10" to 36")
250	250	5	**727 312 081**	2.616	179	159	397	131	34	X2 (DN250 - DN900, 10" to 36")
280	250	5	**727 312 082**	3.583	179	167	426	127	34	X2 (DN250 - DN900, 10" to 36")
315	300	5	**727 312 083**	4.311	248	202	450	120	34	X2 (DN250 - DN900, 10" to 36")







PROGEF Standard installation fitting type 314

Model:

- Material: PP-H
- Threaded outlet 1 ¼" NPSM
- For conventional hot gas back welding according to DVS 2207 part 3

Attention:

- pH sensors can also be used for dimensions above d180/DN150 and below d75/DN65 with 727 314 000 The length might have to be adjusted (sensor has to touch the medium)
- only for pressureless or low pressure application
- pressure rate depends on quality of hot gas back welding
- please consult the instruction manual
- Installation by trained and certified welders only
- sensor length depends on installation fitting

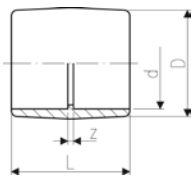
Range of use:

- Compatible Signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- Compatible Signet pH/ORP sensors: type 2724, 2725, 2726, 2734, 2736, 2735

d (mm)	DN1 (mm)	DN2 (mm)	Code	Weight (kg)	L (mm)	D (mm)	Insertion Sensor Length
65 - 150	65	150	**727 314 000**	0.050	68	38	X0 (DN15 – DN100, 1/2" to 4")
200 - 350	200	350	**727 314 001**	0.057	102	38	X1 (DN125 - DN200, 5" to 8")
350 - 600	350	600	**727 314 002**	0.885	178	38	X2 (DN250 - DN900, 10" to 36")

Socket fusion fittings





PROGEF Standard Socket equal PN10

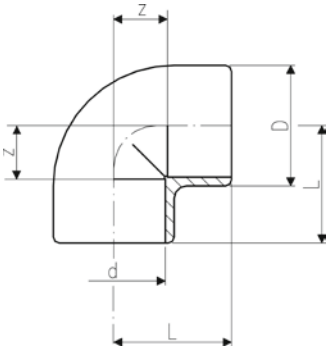
Model:

- Material: PP-H

* use pipe SDR 7.4

	d (mm)	PN (bar)	Code	Weight (kg)	L (mm)	D (mm)	z (mm)
*	16	10	**727 910 105**	0.010	33	26	7
	20	10	**727 910 106**	0.013	35	31	7
	25	10	**727 910 107**	0.020	39	36	7
	32	10	**727 910 108**	0.028	43	44	7
	40	10	**727 910 109**	0.045	48	54	8
	50	10	**727 910 110**	0.072	54	66	8
	63	10	**727 910 111**	0.118	62	82	8
	75	10	**727 910 112**	0.147	70	93	8
	90	10	**727 910 113**	0.238	81	112	11
	110	10	**727 910 114**	0.425	96	134	14





PROGEF Standard Elbow 90° PN10

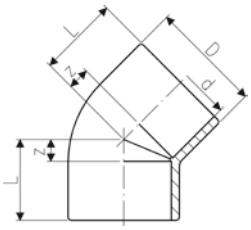
Model:

- Material: PP-H

* use pipe SDR 7.4

	d (mm)	PN (bar)	Code	Weight (kg)	L (mm)	D (mm)	z (mm)
*	16	10	**727 100 105**	0.014	25	26	12
	20	10	**727 100 106**	0.020	28	31	14
	25	10	**727 100 107**	0.029	32	36	16
	32	10	**727 100 108**	0.044	38	44	20
	40	10	**727 100 109**	0.071	44	54	24
	50	10	**727 100 110**	0.121	51	66	28
	63	10	**727 100 111**	0.228	62	82	35
	75	10	**727 100 112**	0.301	76	93	45
	90	10	**727 100 113**	0.477	88	110	53
	110	10	**727 100 114**	0.869	106	134	65





PROGEF Standard Elbow 45° PN10

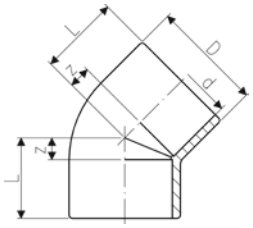
Model:

- Material: PP-H

* use pipe SDR 7.4

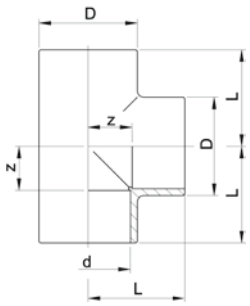
	d (mm)	PN (bar)	Code	Weight (kg)	L (mm)	D (mm)	z (mm)
*	16	10	**727 150 105**	0.009	20	23	7
	20	10	**727 150 106**	0.016	21	31	7
	25	10	**727 150 107**	0.024	24	36	8
	32	10	**727 150 108**	0.036	28	44	10
	40	10	**727 150 109**	0.059	33	53	13
	50	10	**727 150 110**	0.084	36	64	13

table continued on the next page



	d (mm)	PN (bar)	Code	Weight (kg)	L (mm)	D (mm)	z (mm)
	63	10	**727 150 111**	0.183	43	82	16
	75	10	**727 150 112**	0.219	51	93	20
	90	10	**727 150 113**	0.336	58	110	23
	110	10	**727 150 114**	0.657	68	134	27





PROGEF Standard Tee 90° equal PN10

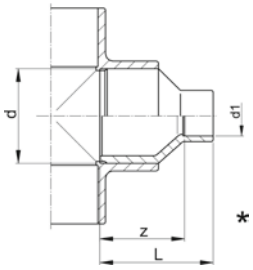
Model:

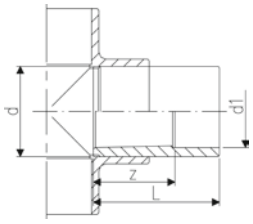
- Material: PP-H

* use pipe SDR 7.4

	d (mm)	PN (bar)	Code	Weight (kg)	L (mm)	D (mm)	z (mm)
*	16	10	**727 200 105**	0.020	25	26	12
	20	10	**727 200 106**	0.027	28	31	14
	25	10	**727 200 107**	0.039	32	36	16
	32	10	**727 200 108**	0.057	38	44	20
	40	10	**727 200 109**	0.095	44	54	24
	50	10	**727 200 110**	0.161	51	66	28
	63	10	**727 200 111**	0.286	62	82	35
	75	10	**727 200 112**	0.390	76	93	45
	90	10	**727 200 113**	0.727	88	114	53
	110	10	**727 200 114**	1.062	106	134	65







PROGEF Standard Reducer PN10

Model:

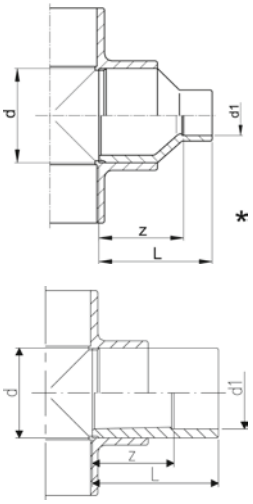
- Material: PP-H

Note:

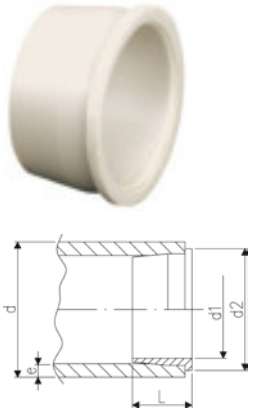
* Fusion spigot and socket

d (mm)	d1 (mm)	PN (bar)	Code	Weight (kg)	L (mm)	z (mm)
20	16	10	**727 910 334**	0.013	35	22
25	16	10	**727 910 338**	0.010	38	25
25	20	10	**727 910 337**	0.012	37	23
32	20	10	**727 910 342**	0.016	43	29
32	25	10	**727 910 341**	0.019	43	27
40	20	10	**727 910 348**	0.022	48	34
40	25	10	**727 910 347**	0.025	48	32
40	32	10	**727 910 346**	0.030	48	30
50	20	10	**727 910 355**	0.034	54	40
50	25	10	**727 910 354**	0.034	54	38
50	32	10	**727 910 353**	0.039	54	36
50	40	10	**727 910 352**	0.048	54	34
63	25	10	**727 910 361**	0.054	64	46
63	32	10	**727 910 360**	0.062	64	46
63	40	10	**727 910 359**	0.069	64	44
63	50	10	**727 910 358**	0.083	64	41

table continued on the next page



d (mm)	d1 (mm)	PN (bar)	Code	Weight (kg)	L (mm)	z (mm)
75	63	10	**727 910 364**	0.098	62	35
90	63	10	**727 910 371**	0.170	88	61
90	75	10	**727 910 370**	0.142	70	39
110	90	10	**727 910 376**	0.235	81	46



PROGEF Standard stiffener

Model:

- Material: PP-H
- Used as support during d20 and d25 socket fusion jointing to prevent the pipe from collapsing during the heating and jointing process.

d (mm)	Code	Weight (kg/m)	L (mm)	d1 (mm)	d2 (mm)	e (mm)
20	**727 900 006**	0.001	10	14	18	1.9
25	**727 900 007**	0.004	11	18	23	2.3



PROGEF Standard Barrel nipple PN10

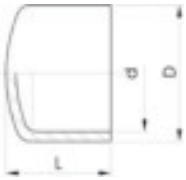
Model:

- Material: PP-H
- With fusion spigots on both sides
- For the shortest possible distance between fittings

* In these two sizes, stiffeners Code No. 727 900 006 (20 x 1.9) and 727 900 007 (25 x 2.3), or pipe SDR 7.4 must be used with socket fusion joints.

	d (mm)	PN (bar)	Code	Weight (kg)	L (mm)
	16	10	**727 910 905**	0.005	36
*	20	10	**727 910 906**	0.005	37
*	25	10	**727 910 907**	0.006	41
	32	10	**727 910 908**	0.010	45
	40	10	**727 910 909**	0.017	50
	50	10	**727 910 910**	0.029	55
	63	10	**727 910 911**	0.058	64
	75	10	**727 910 912**	0.095	76
	90	10	**727 910 913**	0.163	90
	110	10	**727 910 914**	0.305	108





PROGEF Standard End cap PN10

Model:

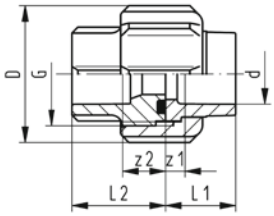
- Material: PP-H

* use pipe SDR 7.4

	d (mm)	PN (bar)	Code	Weight (kg)	L (mm)	D (mm)
*	16	10	**727 960 105**	0.006	20	25
	20	10	**727 960 106**	0.009	27	30
	25	10	**727 960 107**	0.015	30	36
	32	10	**727 960 108**	0.023	34	44
	40	10	**727 960 109**	0.035	38	53
	50	10	**727 960 110**	0.061	44	65
	63	10	**727 960 111**	0.102	51	80
	75	10	**727 960 112**	0.149	65	91
	90	10	**727 960 113**	0.277	77	111
	110	10	**727 960 114**	0.411	93	137

Socket fusion unions and o-rings





PROGEF Standard Union
PN10

Model:

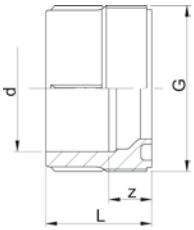
- Material: PP-H
- Fusion socket metric
- Jointing face: With O-ring groove
- **For the dimensions d75-110 please see instructions for the installation**

d75-d110 new thread design since 2022

d (mm)	PN (bar)	EPDM Code	FKM Code	Weight (kg)
16	10	**727 510 155**	**727 520 155**	0.020
20	10	**727 510 156**	**727 520 156**	0.038
25	10	**727 510 157**	**727 520 157**	0.062
32	10	**727 510 158**	**727 520 158**	0.080
40	10	**727 510 159**	**727 520 159**	0.137
50	10	**727 510 160**	**727 520 160**	0.136
63	10	**727 510 161**	**727 520 161**	0.251
75	10	**727 510 192**	**727 520 192**	0.427
90	10	**727 510 193**	**727 520 193**	0.625
110	10	**727 510 194**	**727 520 194**	1.161

d (mm)	L1 (mm)	L2 (mm)	D (mm)	Thread size	z1 (mm)	z2 (mm)	Size	O-Ring EPDM	O-Ring FKM
16	18	24	35	3/4	3	9	15,54 x 2,62	748.410.005	749.410.005
20	19	26	48	1	3	10	20,22 x 3,53	748.410.006	749.410.006
25	21	28	58	1 1/4	3	10	28,17 x 3,53	748.410.007	749.410.007
32	23	30	65	1 1/2	3	10	32,93 x 3,53	748.410.008	749.410.008
40	25	34	79	2	3	12	40,65 x 5,34	748.410.009	749.410.009
50	28	39	91	2 1/4	3	14	46,99 x 5,34	748.410.010	749.410.010
63	32	47	111	2 3/4	3	18	59,69 x 5,34	748.410.011	749.410.011
75	36	51	138	S110x5	3	18	74,63 x 5,34	748.410.383	749.410.383
90	42	55	161	S130x5	5	18	94,62 x 5,34	748.410.248	749.410.248
110	49	54	191	S155x5	6	12	114,7 x 6,99	748.410.384	749.410.384





PROGEF Standard Union bush
PN10

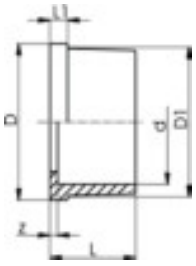
Model:

- Material: PP-H
- Fusion socket metric
- **For the dimensions d75-110 please see instructions for the installation**

d75-d110 new thread design since 2022

d (mm)	PN (bar)	Code	Weight (kg)	L (mm)	z (mm)	Size
16	10	**727 840 155**	0.006	24	11	3/4
20	10	**727 840 156**	0.011	26	12	1
25	10	**727 840 157**	0.012	28	12	1 1/4
32	10	**727 840 158**	0.021	30	12	1 1/2
40	10	**727 840 159**	0.033	34	14	2
50	10	**727 840 160**	0.039	39	16	2 1/4
63	10	**727 840 161**	0.076	47	20	2 3/4
75	10	**727 840 192**	0.080	51	18	S110x5
90	10	**727 840 193**	0.220	55	18	S130x5
110	10	**727 840 194**	0.303	54	12	S155x5





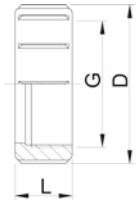
PROGEF Standard union end PN10

Model:

- Material: PP-H
- Fusion socket metric

d (mm)	Code	Weight (kg)	L (mm)	L1 (mm)	D (mm)	D1 (mm)	z (mm)
16	**727 500 105**	0.003	18	4	24	22	3
20	**727 500 106**	0.006	19	5	30	28	3
25	**727 500 107**	0.011	21	5	39	36	3
32	**727 500 108**	0.014	23	6	45	42	3
40	**727 500 109**	0.025	25	6	57	53	3
50	**727 500 110**	0.025	28	7	63	59	3
63	**727 500 111**	0.043	32	8	79	74	3
75	**727 500 312**	0.090	36	10	103	91	3
90	**727 500 313**	0.130	42	11	123	108	5
110	**727 500 314**	0.220	49	12	148	131	6





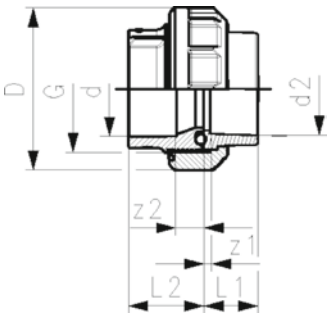
PROGEF Standard Union nut PP-H

Model:

- Material: PP glass-fibre reinforced
- d75-d110 new thread design since 2022

PN (bar)	Butt Fusion d (mm)	Size	Socket Fusion d (mm)	Code	Weight (kg)	L (mm)	D (mm)
10	16	3/4	16	**727 890 405**	0.007	21	35
10	20	1	20	**727 890 406**	0.023	21	47
10	25	1 1/4	25	**727 890 407**	0.035	23	56
10	32	1 1/2	32	**727 890 408**	0.044	24	63
10	40	2	40	**727 890 409**	0.044	27	77
10	50	2 1/4	50	**727 890 410**	0.062	30	84
10	63	2 3/4	63	**727 890 411**	0.119	39	111
10	110	S130x5	90	**727 890 113**	0.400	48	161
10		S155x5	110	**727 890 114**	0.499	52	191
10	75 - 90	S110x5	75	**727 890 112**	0.205	46	138





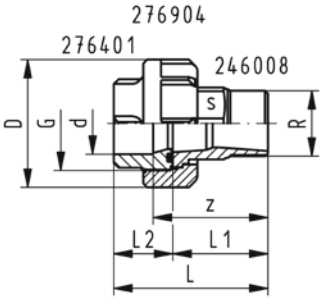
PROGEF Standard Adapter union PN10 Metric BS Inch

Model:

- Material: PP-H
- Fusion socket metric
- Jointing face: With O-ring groove

d (mm)	PN (bar)	d2 (inch)	Code	Weight (kg)	L1 (mm)	L2 (mm)	D (mm)	Size	z1 (mm)	z2 (mm)
20	10	½	**727 513 006**	0.041	19	26	48	1	5	12
25	10	¾	**727 513 007**	0.061	21	28	58	1 1/4	5	12
32	10	1	**727 513 008**	0.079	23	30	65	1 1/2	5	12
40	10	1 ¼	**727 513 009**	0.108	25	34	79	2	5	14
50	10	1 ½	**727 513 010**	0.133	28	39	91	2 1/4	5	16
63	10	2	**727 513 011**	0.252	32	47	111	2 3/4	5	20





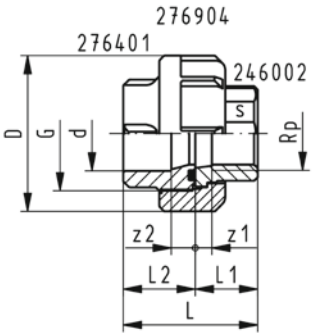
PROGEF Standard Adaptor union
PN10 PP-H/malleable iron galvanised metric R

Model:

- Gasket: O-ring EPDM
- Union End: Malleable iron with taper male thread R
- Union bush: fusion socket PP-H metric
- Union Nut: PP-H

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	D (mm)	G (inch)	s (mm)	z (mm)
20	R	½	10	**727 530 806**	0.112	66	40	26	43	1	25	50
25	R	¾	10	**727 530 807**	0.171	71	43	28	51	1 ¼	31	53
32	R	1	10	**727 530 808**	0.236	78	48	30	58	1 ½	38	58
40	R	1 ¼	10	**727 530 809**	0.379	91	57	34	72	2	48	69
50	R	1 ½	10	**727 530 810**	0.512	98	59	39	83	2 ¼	54	73
63	R	2	10	**727 530 811**	0.763	109	62	47	100	2 ¾	67	80





PROGEF Standard Adaptor union
PN10 PP-H/malleable iron galvanised metric Rp

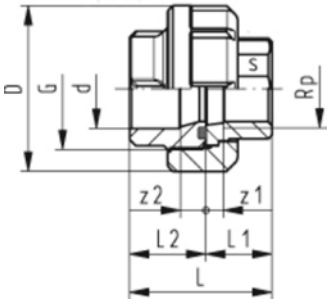
Model:

- Union End: malleable iron with parallel female thread Rp
- Union bush: fusion socket PP-H metric
- Union Nut: PP-H
- Gasket: O-ring EPDM

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)
20	Rp	½	10	**727 530 306**	0.073
25	Rp	¾	10	**727 530 307**	0.118
32	Rp	1	10	**727 530 308**	0.199
40	Rp	1 ¼	10	**727 530 309**	0.276
50	Rp	1 ½	10	**727 530 310**	0.317
63	Rp	2	10	**727 530 311**	0.579

d (mm)	L (mm)	L1 (mm)	L2 (mm)	D (mm)	Size	s (mm)	z1 (mm)	z2 (mm)
20	48	22	26	43	1	25	9	10
25	50	22	28	51	1 1/4	31	7	10
32	56	26	30	58	1 1/2	38	9	10
40	65	31	34	72	2	48	12	12
50	72	33	39	83	2 1/4	54	14	14
63	82	35	47	100	2 3/4	67	11	18





PROGEF Standard Adaptor union
PN10 PP-H/brass metric Rp

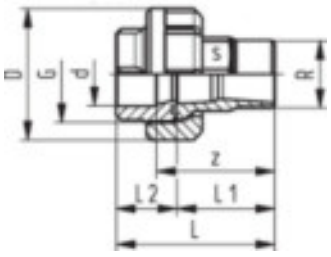
Model:

- Union Nut: PP-H
- Union bush: fusion socket PP-H metric
- Union End: Brass with parallel female thread Rp
- Gasket: O-ring EPDM

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)
20	Rp	½	10	**727 550 506**	0.091
25	Rp	¾	10	**727 550 507**	0.152
32	Rp	1	10	**727 550 508**	0.194
40	Rp	1 ¼	10	**727 550 509**	0.317
50	Rp	1 ½	10	**727 550 510**	0.436
63	Rp	2	10	**727 550 511**	0.774

d (mm)	L (mm)	L1 (mm)	L2 (mm)	D (mm)	s (mm)	Size	z1 (mm)	z2 (mm)
20	48	22	26	48	25	1	7	10
25	53	25	28	58	30	1 1/4	9	10
32	57	27	30	65	36	1 1/2	8	10
40	65	31	34	79	46	2	10	12
50	74	35	39	91	55	2 1/4	13	14
63	87	40	47	105	65	2 3/4	14	18



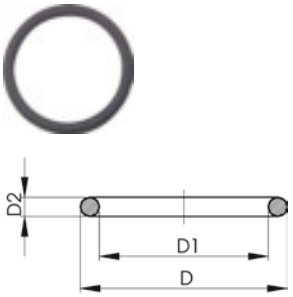


PROGEF Standard adaptor union
PN10 PP-H/brass metric R

Model:

- Union End: Brass with taper male thread R
- Gasket: O-ring EPDM
- Union Nut: PP-H
- Union bush: fusion socket PP-H metric

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	D (mm)	s (mm)	G (inch)	z (mm)
20	R	½	10	**727 550 906**	0.130	63	37	26	48	25	1	47
25	R	½	10	**727 550 957**	0.203	65	37	28	58	30	1 ¼	47
25	R	¾	10	**727 550 907**	0.203	70	42	28	58	30	1 ¼	52
25	R	1	10	**727 550 967**	0.318	99	46	30	58	30	1 ¼	81
32	R	½	10	**727 550 958**	0.298	67	37	30	65	36	1 ½	47
32	R	¾	10	**727 550 968**	0.298	72	42	30	65	36	1 ½	52
32	R	1	10	**727 550 908**	0.389	76	46	30	65	36	1 ½	56
40	R	1 ¼	10	**727 550 909**	0.493	86	52	34	79	46	2	64
50	R	1 ½	10	**727 550 910**	0.650	95	56	39	91	55	2 ¼	70
63	R	2	10	**727 550 911**	1.123	114	67	47	105	65	2 ¾	85



O-Ring Union EPDM/FKM

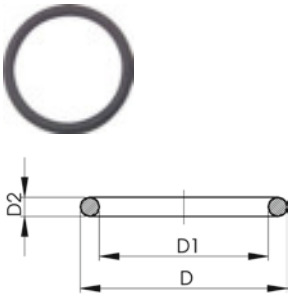
Model:

- For ecoFIT, PROGEF Std/Plus, SYGEF Std unions and adapter unions for butt fusion
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°C
- FKM minimum temperature -15°C

Note:

For the O-Rings of new unions as of 10/2022, see respective union datasheet

d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	D (mm)	D1 (mm)	D2 (mm)
75 / 90	65 / 80	**748 410 383**	0.006	**749 410 383**	85.31	74.63	5.34
110	110	**748 410 384**	0.016	**749 410 384**	128.68	114.70	6.99



O-Ring gasket EPDM/FKM

Model:

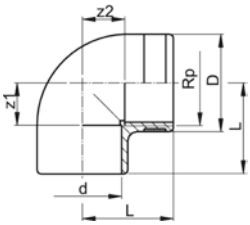
- For flange adaptors, unions and adaptor unions
- For ecoFIT, PROGEF Std/Plus, SYGEF Std
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°C
- FKM minimum temperature -15°C

** For ecoFIT unions 753 518 612 to ...614, 753 528 612 to ...614, 753 518 412 to ...414 and 753 528 412 to ...414

	Suitable for	EPDM Code	FKM Code	D (mm)	D1 (mm)	D2 (mm)
	d10-20 / DN8	**748 410 004**	**749 410 004**	17.62	12.37	2.62
	d16 / DN10	**748 410 005**	**749 410 005**	20.78	15.54	2.62
	d16 / DN10	**748 410 000**	**749 410 000**	25.70	18.64	3.53
	d20 / DN15	**748 410 006**	**749 410 006**	27.28	20.22	3.53
	d25 / DN20	**748 410 007**	**749 410 007**	35.23	28.17	3.53
	d25 / DN15	**748 410 001**	**749 410 001**	30.46	23.40	3.53
	d32 / DN25	**748 410 008**	**749 410 008**	39.99	32.93	3.53
	d40 / DN32	**748 410 002**	**749 410 002**	43.16	36.10	3.53
	d40 / DN32	**748 410 009**	**749 410 009**	51.33	40.65	5.34
	d40 / DN32	**748 410 003**	**749 410 003**	54.50	43.82	5.34
	d50 / DN40	**748 410 010**	**749 410 010**	57.68	46.99	5.34
	d60 / DN50	**748 410 011**	**749 410 011**	70.37	59.69	5.34
	d63 / DN50	**748 410 012**	**749 410 012**	64.02	53.34	5.34
	d75 / DN65	**748 410 024**	**749 410 024**	76.72	66.04	5.33
	d75 / DN65	**748 410 013**	**749 410 013**	79.90	69.22	5.34
**	d75-90 / DN65-80	**748 410 014**	**749 410 014**	92.60	81.92	5.34
*	d90 / DN80	**748 410 015**	**749 410 015**	111.68	101.00	5.34
	d75-90 /DN 65-80	**748 410 383**	**749 410 383**	85.31	74.63	5.34
**	d90-110 / DN80-100	**748 410 248**	**749 410 248**	105.30	94.62	5.34
	d110 / DN100	**748 410 384**	**749 410 384**	128.68	114.70	6.99
**	d110 / DN100	**748 410 016**	**749 410 016**	134.00	120.20	6.99
	d125 / DN100	**748 410 017**	**749 410 017**	149.90	135.90	6.99
	d140 / DN125	**748 410 018**	**749 410 018**	165.80	151.80	6.99
	d160 / DN150	**748 410 019**	**749 410 019**	184.15	170.17	6.99
	d200 / DN200	**748 410 163**	**749 410 163**	235.60	221.60	6.99
	d250 / DN250	**748 410 173**	**749 410 173**	305.50	291.50	6.99
	d280 / DN250	**748 410 182**	**749 410 182**	280.10	266.10	6.99
	d315 / DN300	**748 410 174**	**749 410 174**	356.30	342.30	6.99

Socket fusion transition fittings





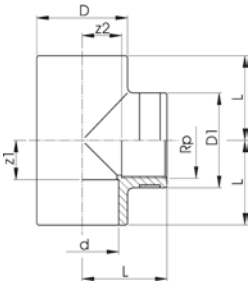
PROGEF Standard Elbow 90°
PN10 metric Rp

Model:

- Material: PP-H
- With fusion socket metric and parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (lb)	L (mm)	D (mm)	z1 (mm)	z2 (mm)
20	Rp	½	10	**727 100 206**	0.049	28	30	14	14
25	Rp	¾	10	**727 100 207**	0.077	32	35	16	16
32	Rp	1	10	**727 100 208**	0.126	38	44	20	20
40	Rp	1 ¼	10	**727 100 209**	0.192	44	54	24	24





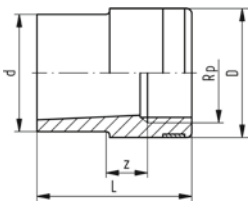
PROGEF Standard Tee 90°
PN10 metric Rp

Model:

- Material: PP-H
- Line, with fusion socket metric
- Branch, with BSP parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	L (mm)	D (mm)	D1 (mm)	z1 (mm)	z2 (mm)
20	Rp	½	10	**727 200 206**	0.030	28	31	30	14	14
25	Rp	¾	10	**727 200 207**	0.042	32	36	35	16	16
32	Rp	1	10	**727 200 208**	0.071	38	44	45	20	20
40	Rp	1 ¼	10	**727 200 209**	0.107	44	54	55	24	24





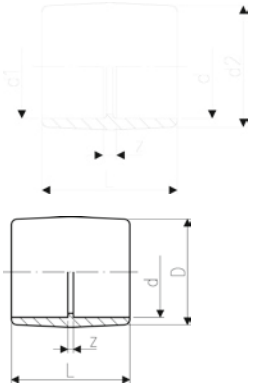
PROGEF Standard Reducing bush
PN10 metric Rp

Model:

- Material: PP-H
- With fusion spigot metric and BSP parallel female thread, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	L (mm)	z (mm)
20	Rp	¼	10	**727 910 433**	0.011	36	7
20	Rp	⅜	10	**727 910 434**	0.011	36	7
25	Rp	½	10	**727 910 437**	0.015	45	6
32	Rp	¾	10	**727 910 441**	0.022	47	8
40	Rp	1	10	**727 910 446**	0.039	53	9
50	Rp	1 ¼	10	**727 910 452**	0.061	55	10





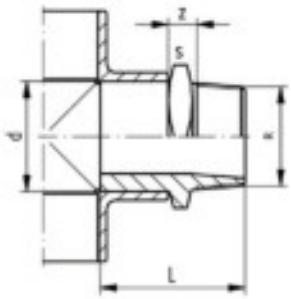
PROGEF Standard Adaptor socket
PN10 Metric Inch BS

Model:

- Material: PP-H
- With fusion socket metric and BS Inch (ASTM)

d (mm)	d1 (inch)	PN (bar)	Code	Weight (kg)	L (mm)	d2 (mm)	z (mm)
20	½	10	**727 913 006**	0.014	35	31	7
25	¾	10	**727 913 007**	0.019	39	36	7
32	1	10	**727 913 008**	0.025	43	44	7
40	1 ¼	10	**727 913 009**	0.040	48	54	8
50	1 ½	10	**727 913 010**	0.074	54	66	8
63	2	10	**727 913 011**	0.130	62	82	8
90	3	10	**727 913 013**	0.234	81	112	10
110	4	10	**727 913 014**	0.389	96	134	12





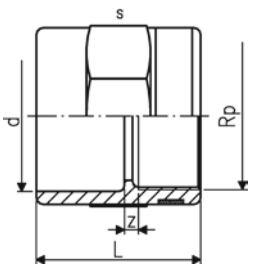
PROGEF Standard Adaptor nipple
PN10 Metric R

Model:

- Material: PP-H
- With fusion spigot metric and R tapered male thread
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	L (mm)	s (mm)	z (mm)
16	R	⅜	10	**727 910 505**	0.008	37	27	13
20	R	½	10	**727 910 506**	0.011	42	32	13
25	R	¾	10	**727 910 507**	0.015	46	36	13
32	R	1	10	**727 910 508**	0.027	52	46	12
40	R	1 ¼	10	**727 910 509**	0.040	56	55	14
50	R	1 ½	10	**727 910 510**	0.061	60	65	15
63	R	2	10	**727 910 511**	0.100	69	80	16





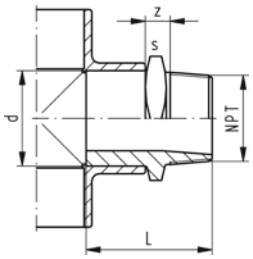
PROGEF Standard Adaptor socket
PN10 Metric Rp

Model:

- Material: PP-H
- With fusion socket metric and parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	L (mm)	s (mm)	z (mm)
20	Rp	⅜	10	**727 910 205**	0.017	35	32	7
20	Rp	½	10	**727 910 206**	0.018	40	32	7
25	Rp	¾	10	**727 910 207**	0.025	42	36	7
32	Rp	1	10	**727 910 208**	0.040	48	46	7
40	Rp	1 ¼	10	**727 910 209**	0.064	53	55	7
50	Rp	1 ½	10	**727 910 210**	0.089	54	65	9
63	Rp	2	10	**727 910 211**	0.144	62	80	9





PROGEF Standard Adaptor nipple
PN10 Metric NPT male

Model:

- Material: PP-H
- With fusion spigot metric and NPT tapered male thread
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	L (mm)	s (mm)	z (mm)
16	NPT	⅜	10	**727 914 555**	0.008	37	27	13
20	NPT	½	10	**727 914 556**	0.013	42	32	13
25	NPT	¾	10	**727 914 557**	0.015	46	36	13
32	NPT	1	10	**727 914 558**	0.026	52	46	12
40	NPT	1 ¼	10	**727 914 559**	0.041	56	55	14
50	NPT	1 ½	10	**727 914 560**	0.061	60	65	15
63	NPT	2	10	**727 914 561**	0.100	69	80	16





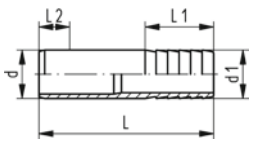
PROGEF Standard Adaptor socket
PN10 Metric NPT female

Model:

- Material: PP-H
- With fusion socket metric and NPT tapered female thread, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	L (mm)	s (mm)	z (mm)
20	NPT	½	10	**727 914 266**	0.018	35	32	4.5
25	NPT	¾	10	**727 914 267**	0.023	39	36	4.5
32	NPT	1	10	**727 914 268**	0.039	45	46	6.0
40	NPT	1 ¼	10	**727 914 269**	0.056	53	55	8.0
50	NPT	1 ½	10	**727 914 270**	0.095	54	65	8.0
63	NPT	2	10	**727 914 271**	0.145	62	80	9.0





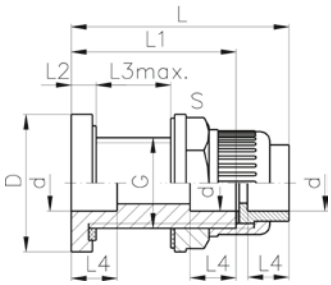
PROGEF Standard Hose connector
PN10 Metric

Model:

- Material: PP-H
- With socket fusion spigot metric and parallel hose connection

d (mm)	d1 (mm)	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)
20	20	10	**727 960 406**	0.008	78	27	14
25	25	10	**727 960 407**	0.014	91	36	16
32	32	10	**727 960 408**	0.025	100	36	18
40	40	10	**727 960 409**	0.038	104	42	20
50	50	10	**727 960 610**	0.061	113	48	23
63	60	10	**727 960 611**	0.084	147	50	27





PROGEF Standard Tank adaptor

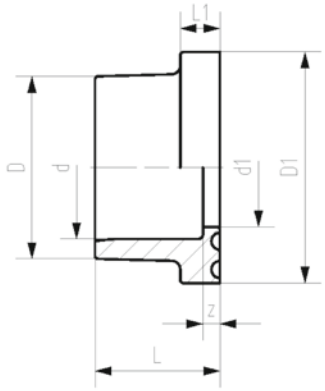
Model:

- End connection: union with fusion socket metric
- Gasket: flat gasket EPDM
- Material: PP-H

d (mm)	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	L3 max (mm)	L4 (mm)	D (mm)	s (mm)	G (inch)	Diameter of bore in tank side (mm)
20	10	**167 050 226**	0.098	89	67	11	30	16	56	38	1	35
25	10	**167 050 227**	0.153	96	72	12	32	18	65	47	1 ¼	43
32	10	**167 050 228**	0.185	100	75	12	33	20	70	53	1 ½	49
40	10	**167 050 229**	0.292	106	78	12	32	22	95	75	2	61
50	10	**167 050 230**	0.308	112	82	13	32	25	95	75	2 ¼	67
63	10	**167 050 231**	0.493	122	87	13	33	29	115	101	2 ¾	83

Socket fusion flange adaptors, flanges and gaskets





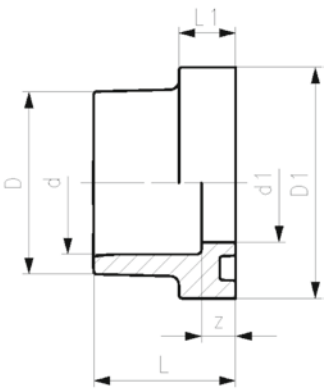
PROGEF Standard Flange adaptor
PN10 Jointing face flat/serrated

Model:

- Material: PP-H
- Connection: according to EN ISO 15494-1
- Counterpart: flange adaptor flat/serrated or with O-ring groove
- Flanges: PP - steel, No. 27 70 02, PP-V, No. 27 70 04
- ANSI: profile flange gasket EPDM No. 48 44 05, FKM No. 49 44 05
- ISO: profile flange gasket EPDM No. 48 44 07, FKM No. 49 44 07

d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	D (mm)	D1 (mm)	d1 (mm)	z (mm)
20	15	10	**727 790 206**	0.011	19	7	27	45	16	5
25	20	10	**727 790 207**	0.022	21	9	33	58	21	5
25		10	**727 790 257**	0.018	21	7	33	54	21	5
32	25	10	**727 790 208**	0.033	23	10	41	68	28	5
32		10	**727 790 258**	0.026	23	7	41	63	28	5
40	32	10	**727 790 209**	0.046	25	11	50	78	36	5
40		10	**727 790 259**	0.041	25	8	50	73	36	5
50	40	10	**727 790 210**	0.060	28	12	61	88	45	5
50		10	**727 790 260**	0.055	28	8	61	82	45	5
63	50	10	**727 790 211**	0.090	32	14	76	102	57	5
75	65	10	**727 790 212**	0.155	36	16	90	122	69	5
90	80	10	**727 790 213**	0.204	42	17	108	138	84	7
90		10	**727 790 263**	0.189	36	16	108	133	84	5
110	100	10	**727 790 214**	0.286	48	18	131	158	100	7





PROGEF Standard Flange adaptor
PN10 Jointing face with o-ring groove

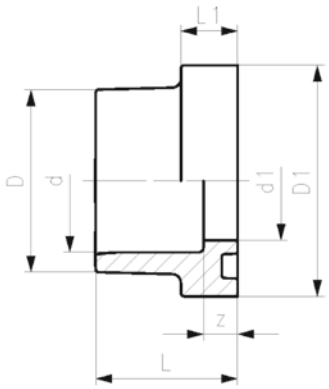
Model:

- Material: PP-H
- Counterpart: flange adaptor flat/serrated, No. 27 79 02
- Flanges: PP - steel, No. 27 70 02 (mm) or No. 27 70 12 (ANSI), PP-V, No. 27 70 04
- Gasket: O-ring EPDM No. 48 41 01, FKM No. 49 41 01

d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)
20	15	10	**727 810 106**	0.007
25	20	10	**727 810 107**	0.012
32	25	10	**727 810 108**	0.018
40	32	10	**727 810 109**	0.027
50	40	10	**727 810 110**	0.043
63	50	10	**727 810 111**	0.070
75	65	10	**727 810 112**	0.105
90	80	10	**727 810 113**	0.170
110	100	10	**727 810 114**	0.263

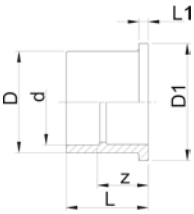
d (mm)	D (mm)	D1 (mm)	d1 (mm)	L (mm)	L1 (mm)	z (mm)	Size (mm)	O-Ring EPDM	O-Ring FKM
20	27	34	16	22	9	8	20.22 x 3.53	748 410 006	749 410 006
25	33	41	21	24	10	8	28.17 x 3.53	748 410 007	749 410 007
32	41	50	28	26	10	8	32.93 x 3.53	748 410 008	749 410 008
40	50	61	36	30	13	10	40.65 x 5.34	748 410 009	749 410 009
50	61	73	45	33	13	10	46.99 x 5.34	748 410 010	749 410 010

table continued on the next page



d (mm)	D (mm)	D1 (mm)	d1 (mm)	L (mm)	L1 (mm)	z (mm)	Size (mm)	O-Ring EPDM	O-Ring FKM
63	76	90	57	37	14	10	59.69 x 5.34	748 410 011	749 410 011
75	90	106	69	40	15	10	66.04 x 5.33	748 410 024	749 410 024
90	108	125	84	47	16	12	74.63 x 5.34	748 410 383	749 410 383
110	131	150	100	55	18	13	94.62 x 5.34	748 410 248	749 410 248





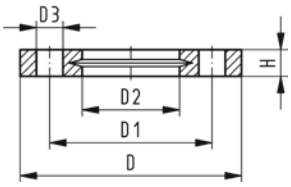
PROGEF Standard Outlet flange adaptor PN6 Jointing face flat

Model:

- Material: PP-H
- With fusion socket metric
- Suitable for wafer check valves Type 369
- To be installed on the outlet side of the valve
- Use flanges PP-V 27 70 04

d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	D (mm)	D1 (mm)	z (mm)
40	32	6	**727 800 009**	0.068	55	11	50	78	35
50	40	6	**727 800 010**	0.087	61	12	61	88	38
63	50	6	**727 800 011**	0.136	69	14	76	102	41
75	65	6	**727 800 012**	0.214	79	16	90	122	49
90	80	6	**727 800 013**	0.350	100	17	107	138	65
110	100	6	**727 800 014**	0.468	105	18	130	158	62





Flanges PP-V (full plastic)

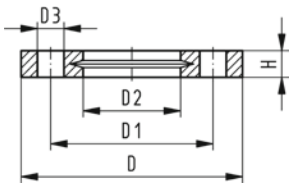
Model:

- Full-plastic flange PP-GF (30 % glass-fibre reinforced)
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D2024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes

d (mm)	DN (mm)	d (inch)	PN (bar)	Bolt / circle	Design	Code	Weight (kg)
20	15		16	PN10	Butt/Socket	**727 700 406**	0.093
25	20		16	PN10	Butt/Socket	**727 700 407**	0.120
32	25		16	PN10	Butt/Socket	**727 700 408**	0.151
40	32		16	PN10	Butt/Socket	**727 700 409**	0.244
50	40		16	PN10	Butt/Socket	**727 700 410**	0.297
63	50		16	PN10	Butt/Socket	**727 700 411**	0.362
75	65		16	PN10	Butt/Socket	**727 700 412**	0.487
90	80		16	PN10	Socket	**727 700 413**	0.550
110	100		16	PN10	Socket	**727 700 414**	0.640
140	125		16	PN10	Socket	**727 700 416**	0.781
160	150		16	PN10/ class 150	Socket	**727 700 417**	1.050
200	200		16	PN10/ class 150	Socket	**727 700 419**	1.629
225	200		16	PN10/ class 150	Socket	**727 700 420**	1.400
250	250		10	PN10	Socket	**727 700 421**	2.229

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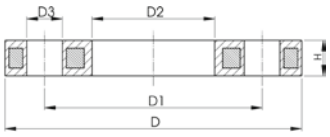


d (mm)	DN (mm)	d (inch)	PN (bar)	Bolt / circle	Design	Code	Weight (kg)
280	250		10	PN10	Socket	**727 700 422**	1.651
315	300		10	PN10	Socket	**727 700 423**	2.461
355	350		10	PN10	Socket	**727 700 424**	3.000
400	400		10	PN10	Socket	**727 700 425**	5.135

d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	Hmax (mm)	AL	M
20	95	65	28	14	16	4	M12
25	105	75	34	14	17	4	M12
32	115	85	42	14	18	4	M12
40	140	100	51	18	20	4	M16
50	150	110	62	18	22	4	M16
63	165	125	78	18	24	4	M16
75	185	145	92	18	26	4	M16
90	200	160	110	18	27	8	M16
110	220	180	133	18	28	8	M16
140	250	210	167	18	30	8	M16
160	285	240	190	22	32	8	M20
200	340	297	226	22	34	8	M20
225	340	295	250	22	34	8	M20
250	395	350	277	22	38	12	M20
280	395	350	310	22	38	12	M20
315	445	400	348	22	42	12	M20
355	515	460	388	22	46	16	M20
400	574	515	442	26	50	16	M24







Flanges PP-Steel

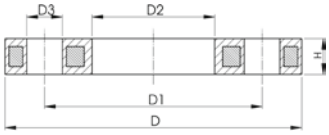
Model:

- Material: PP (30% glass-fibre reinforced) with steel ring
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D4024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes
* FM 1613 approved - 15 bar
** Profiled loose flange

	d (mm)	Size (inch)	DN (mm)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
	20		15	16	Metric	PN10	Butt/Socket	**727 700 206**	0.216
	25		20	16	Metric	PN10	Butt/Socket	**727 700 207**	0.279
	32		25	16	Metric	PN10	Butt/Socket	**727 700 208**	0.429
	40		32	16	Metric	PN10	Butt/Socket	**727 700 209**	0.621
	50		40	16	Metric	PN10	Butt/Socket	**727 700 210**	0.722
	63	2	50	16	Metric	PN10	Butt/Socket	**727 700 211**	0.900
	75		65	16	Metric	PN10	Butt/Socket	**727 700 212**	1.110
	90		80	16	Metric	PN10	Socket	**727 700 213**	1.369
	110		100	16	Metric	PN10	Socket	**727 700 214**	1.522
	125		125	16	Metric	PN10	Socket	**727 700 815**	2.475
	140		125	16	Metric	PN10	Socket	**727 700 816**	2.033
	140	5	125	16	ASME	class 150	Butt	**727 701 315**	2.575
	160	6	150	16	Metric/ASME	PN10/ class 150	Socket	**727 700 817**	3.167
	200	8	200	16	Metric/ASME	PN10/ class 150	Socket	**727 700 819**	6.143
	225	8	200	16	Metric/ASME	PN10/ class 150	Socket	**727 700 820**	4.448
	250		225	16	Metric	PN10	Socket	**727 700 031**	8.340
	250		250	16	Metric	PN10	Socket	**727 700 821**	7.179

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	d (mm)	Size (inch)	DN (mm)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
	280		250	16	Metric	PN10	Socket	**727 700 822**	5.547
	315		300	16	Metric	PN10	Socket	**727 700 823**	6.980
	355		350	16	Metric	PN10	Socket	**727 700 824**	12.465
	400		400	16	Metric	PN10	Socket	**727 700 825**	17.607

	d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	Hmax (mm)	AL	M
	20	95	65	28	14	12	4	M12
	25	105	75	34	14	12	4	M12
	32	115	85	42	14	16	4	M12
	40	140	100	51	18	16	4	M16
	50	150	110	62	18	20	4	M16
	63	165	125	78	18	20	4	M16
	75	185	145	92	18	20	4	M16
	90	200	160	110	18	20	8	M16
	110	220	180	133	18	20	8	M16
	125	250	210	150	18	26	8	M16
	140	250	210	167	18	26	8	M16
	140	253	216	158	21	24	8	M16
	160	285	240	190	22	26	8	M20
	200	340	295	226	22	29	8	M20
	225	340	297	250	22	29	8	M20
	250	395	325	277	22	32	8	M20
	250	395	350	277	22	32	12	M20
	280	395	350	310	22	32	12	M20
	315	445	400	348	22	36	12	M20
	355	515	460	388	23	42	16	M20
	400	574	515	442	26	42	16	M24

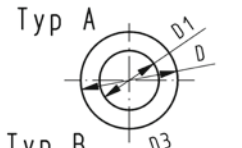


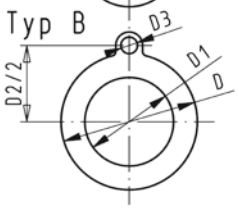
Flat gasket EPDM

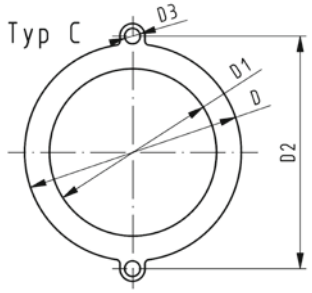
Model:

- For all metric GF Flange Adaptors
- Hardness approx. 65° Shore
- Integrated fixation aids from d110
- Centering on the inner diameter of the screw crown

di FA are the suitable inner diameters of flanges adaptors



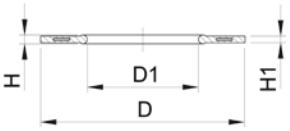




d (mm)	DN (mm)	PN (bar)	Type	EPDM Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	Suitable for
16	10	10	A	**748 400 305**	0.004	46	16			2	6 - 26
20	15	10	A	**748 400 306**	0.012	51	20			2	10 - 30
25	20	10	A	**748 400 307**	0.004	61	25			2	15 - 35
32	25	10	A	**748 400 308**	0.008	71	32			2	22 - 42
40	32	10	A	**748 400 309**	0.013	82	40			3	30 - 50
50	40	10	A	**748 400 310**	0.016	92	50			3	40 - 60
63	50	10	A	**748 400 311**	0.018	107	63			3	53 - 73
75	65	10	A	**748 400 312**	0.029	127	71			3	61 - 81
90	80	10	A	**748 400 313**	0.035	142	84			3	74 - 94
110	100	10	B	**748 400 314**	0.051	162	104	180	18	4	94 - 114
125	100	10	B	**748 400 315**	0.044	162	119	180	18	4	109 - 129
140	125	10	B	**748 400 316**	0.068	192	134	210	18	4	124 - 144
160	150	10	B	**748 400 317**	0.090	218	155	241	22	4	145 - 165
200	200	6	C	**748 400 319**	0.180	273	195	295	22	5	185 - 205
225	200	6	C	**748 400 320**	0.140	273	216	295	22	5	206 - 226
250	250	6	C	**748 400 321**	0.210	328	250	350	22	5	240 - 260
280	250	6	C	**748 400 322**	0.151	328	273	350	22	5	263 - 283
315	300	6	C	**748 400 323**	0.237	378	305	400	22	5	295 - 315







Profile Flange Gasket EPDM/FKM metric

Model:

- For all metric GF Flange Adaptors
- Hardness: 70° Shore EPDM, 75° Shore FKM
- EPDM: approved acc. to DVGW Water W 270, KTW recommendation
- Centering on the inner diameter of the screw crown
- material steel insert: carbon steel
- Rubber-steel body combined with rubber profile cord ring up to d630
- Rubber-steel body ideal for big dimensions (d710 - d1000)

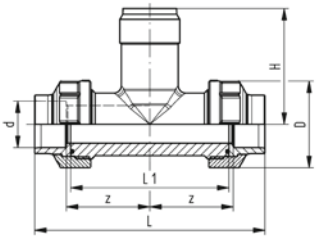
di FA are the suitable inner diameters of flanges adaptors

d (mm)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)	H1 (mm)
16	10	16	**748 440 705**	0.008	**749 440 705**	0.012	46	16	4	3
20	15	16	**748 440 706**	0.009	**749 440 706**	0.013	51	20	4	3
25	20	16	**748 440 707**	0.015	**749 440 707**	0.014	61	22	4	3
32	25	16	**748 440 708**	0.013	**749 440 708**	0.019	71	28	4	3
40	32	16	**748 440 709**	0.019	**749 440 709**	0.026	82	40	4	3
50	40	16	**748 440 710**	0.029	**749 440 710**	0.039	92	46	4	3
63	50	16	**748 440 711**	0.041	**749 440 711**	0.050	107	58	5	4
75	65	16	**748 440 712**	0.053	**749 440 712**	0.082	127	69	5	4
90	80	16	**748 440 713**	0.064	**749 440 713**	0.083	142	84	5	4
110	100	16	**748 440 714**	0.100	**749 440 714**	0.127	162	104	6	5
125	100	16	**748 440 715**	0.072	**749 440 715**	0.105	162	123	6	5
140	125	16	**748 440 716**	0.122	**749 440 716**	0.173	192	137	6	5
160	150	16	**748 440 717**	0.138	**749 440 717**	0.207	218	160	8	6
200	200	16	**748 440 719**	0.289	**749 440 719**	0.263	273	203	8	6
225	200	16	**748 440 720**	0.175	**749 440 720**	0.255	273	220	8	6
250	250	16	**748 440 721**	0.351	**749 440 721**	0.462	328	252	8	6
280	250	16	**748 440 722**	0.222	**749 440 722**	0.323	328	274	8	6
315	300	16	**748 440 723**	0.403	**749 440 723**	0.549	378	306	8	6
355	350	16	**748 440 724**	0.620	**749 440 724**	0.870	438	355	10	7
400	400	16	**748 440 725**	0.776	**749 440 725**	1.088	489	400	10	7
450	500	10	**748 440 726**	1.787	**749 440 726**	0.718	594	403	10	7
500	500	10	**748 440 727**	1.587	**749 440 727**	0.718	594	447	10	7
560	600	10	**748 440 728**	0.923	**749 440 728**	0.923	695	494	10	7
630	600	10	**748 440 729**	1.900	**749 440 729**	0.923	695	555	10	7
710	700	6	**748 440 730**	0.403		0.890	810	712	6	3
800	800	6	**748 440 731**	0.403		1.340	917	813	6	3
900	900	6	**748 440 732**			1.170	1017	915	6	3
1000	1000	6	**748 440 733**	0.403		1.360	1124	1016	6	3

Socket fusion installation fittings







PROGEF Standard installation fitting type 310
PN10 For socket systems metric

Model:

- Material: PP-H
- Threaded outlet 1 ¼" NPSM
- Union end with fusion socket PP-H

Range of use:

- Compatible Signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- Compatible Signet pH/ORP sensors: type 2724, 2725, 2726, 2734, 2736, 2735

Attention:

- sensor length depends on installation fitting

d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	**727 310 006**	0.136	**727 310 036**	0.136
25	20	**727 310 007**	0.190	**727 310 037**	0.190
32	25	**727 310 008**	0.250	**727 310 038**	0.250
40	32	**727 310 009**	0.356	**727 310 039**	0.356
50	40	**727 310 010**	0.510	**727 310 040**	0.510
63	50	**727 310 011**	0.800	**727 310 041**	0.645

d (mm)	L (mm)	L1 (mm)	D (mm)	H (mm)	z (mm)	Sensor Type
20	128	90	48	76	50	flow X0, pH XX
25	142	100	58	78	55	flow X0, pH XX
32	156	110	65	81	60	flow X0, pH XX
40	160	110	79	85	60	flow X0, pH XX
50	176	120	91	89	65	flow X0, pH XX
63	194	130	105	95	70	flow X0, pH XX

Ball valves type 546 Pro



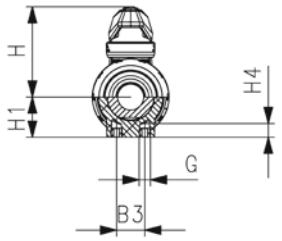
PROGEF Standard Ball Valve type 546 Pro PP-H
With butt fusion spigots IR-Plus SDR11 ISO
Inclusive 2 fusion socket valve ends

Model:

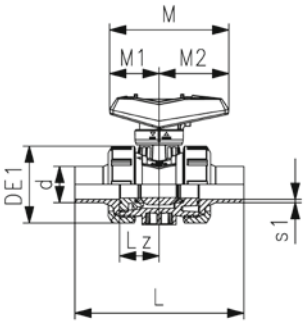
- Lockable lever as standard
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)
- The inclusive 2 fusion socket valve ends are only available up to DN50.

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	½	10	185	**167 546 442**	1	0.121	**167 546 452**	1	0.123
25	20	¾	10	350	**167 546 443**	1	0.183	**167 546 453**	1	0.185
32	25	1	10	700	**167 546 444**	1	0.260	**167 546 454**	1	0.263
40	32	1 ¼	10	1000	**167 546 445**	1	0.454	**167 546 455**	1	0.456
50	40	1 ½	10	1600	**167 546 446**	1	0.633	**167 546 456**	1	0.642
63	50	2	10	3100	**167 546 447**	1	1.151	**167 546 457**	1	1.180
75	65	2 ½	10	5000	**167 546 448**	1	2.822	**167 546 458**	1	2.602
90	80	3	10	7000	**167 546 449**	1	4.717	**167 546 459**	1	5.500
110	100	4	10	11000	**167 546 450**	1	6.171	**167 546 460**	1	8.700



d (mm)	B3 (mm)	DE1 (mm)	G (inch)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	s1 (mm)
20	25	50	M6	60.5	27	12	130	28	82	35	47	1.9
25	25	58	M6	74.0	30	12	143	33	106	44	62	2.3
32	25	68	M6	80.0	36	12	150	36	106	44	62	3.0
40	45	84	M8	95.0	44	15	171	43	131	57	74	3.7
50	45	97	M8	101.5	51	15	191	45	131	57	74	4.6
63	45	124	M8	116.5	64	15	220	51	152	66	86	5.8
75	70	166	M8	169.0	85	15	266	68	270	64	205	8.2
90	70	200	M8	180.0	105	15	264	71	270	64	205	10.0
110	100	238	M12	194.0	123	22	301	82	326	71	255	12.0



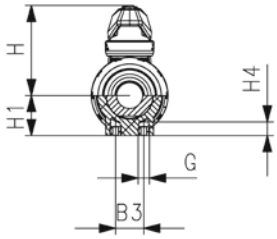
PROGEF Standard Ball Valve type 546 Pro
With butt fusion spigots SDR17.6 ISO

Model:

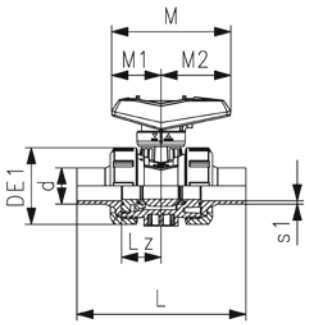
- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
40	32	1 ¼	10	1000	**167 546 065**	1	0.450		1	0.450
50	40	1 ½	10	1600	**167 546 066**	1	0.635	**167 546 076**	1	0.635
63	50	2	10	3100	**167 546 067**	1	1.159	**167 546 077**	1	1.200
75	65	2 ½	10	5000	**167 546 068**	1	2.575	**167 546 078**	1	3.387
90	80	3	10	7000	**167 546 069**	1	4.731	**167 546 079**	1	5.500
110	100	4	10	11000	**167 546 070**	1	8.600	**167 546 080**	1	8.600



d (mm)	B3 (mm)	DE1 (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	s1 (mm)
40	45	84	M8	95.0	44	15	171	43	131	57	74	
50	45	97	M8	101.5	51	15	191	45	131	57	74	2.9
63	45	124	M8	116.5	64	15	220	51	152	66	86	3.6
75	70	166	M8	169.0	85	15	266	68	270	64	205	4.6
90	70	200	M8	180.0	105	15	264	71	270	64	205	5.5
110	120	238	M12	194.0	123	22	301	82	326	71	255	6.7



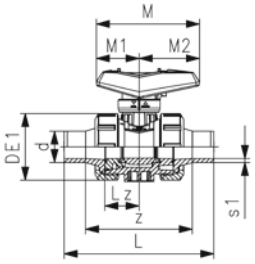
PROGEF Standard Ball Valve type 546 Pro
With sockets fusion spigots PP-H ISO

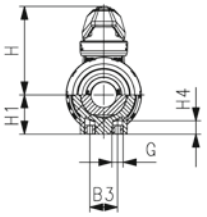
Model:

- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible





d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**167 546 041**	0.120	**167 546 051**	0.120
20	15	½	10	185	**167 546 042**	0.120	**167 546 052**	0.120
25	20	¾	10	350	**167 546 043**	0.180	**167 546 053**	0.180
32	25	1	10	700	**167 546 044**	0.266	**167 546 054**	0.260
40	32	1 ¼	10	1000	**167 546 045**	0.450	**167 546 055**	0.450
50	40	1 ½	10	1600	**167 546 046**	0.635	**167 546 056**	0.640
63	50	2	10	3100	**167 546 047**	1.174	**167 546 057**	1.210
75	65	2 ½	10	5000	**167 546 048**	3.800	**167 546 058**	3.800
90	80	3	10	7000	**167 546 049**	5.600	**167 546 059**	5.600
110	100	4	10	11000	**167 546 050**	8.800	**167 546 060**	8.800

d (mm)	B3 (mm)	DE1 (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	s1 (mm)	z (mm)
16	25	50	M6	60.5	27	12	110	28	82	35	47	3.0	84
20	25	50	M6	60.5	27	12	120	28	82	35	47	3.0	92
25	25	58	M6	74.0	30	12	139	33	106	44	62	3.0	107
32	25	68	M8	80.0	36	12	150	36	106	44	62	4.0	114
40	45	84	M8	95.0	44	15	170	43	131	57	74	4.5	130
50	45	97	M8	101.5	51	15	190	45	131	57	74	5.5	144
63	45	124	M8	116.5	64	15	220	51	152	66	86	7.0	166
75	70	166	M8	169.0	85	15	280	68	270	64	205	8.5	190
90	70	200	M8	180.0	105	15	196	71	270	64	205	10.0	92
110	120	238	M12	194.0	123	22	336	82	326	71	255	12.0	208



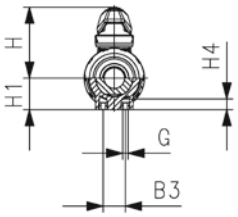
PROGEF Standard Ball valve type 546 Pro
With butt fusion spigots long PP-H SDR11 ISO

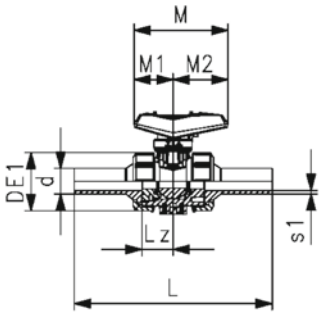
Model:

- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible





d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	½	10	185	**167 546 262**	1	0.130	**167 546 272**	1	0.130
25	20	¾	10	350	**167 546 263**	1	0.195	**167 546 273**	1	0.195
32	25	1	10	700	**167 546 264**	1	0.280	**167 546 274**	1	0.280
40	32	1 ¼	10	1000	**167 546 265**	1	0.492	**167 546 275**	1	0.480
50	40	1 ½	10	1600	**167 546 266**	1	0.691	**167 546 276**	1	0.700
63	50	2	10	3100	**167 546 267**	1	1.274	**167 546 277**	1	1.288

d (mm)	B3 (mm)	DE1 (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	s1 (mm)
20	25	50	M6	60.5	27	12	193	28	82	35	47	1.9
25	25	58	M6	74.0	30	12	216	33	106	44	62	2.3
32	25	68	M6	80.0	36	12	223	36	106	44	62	3.0
40	45	81	M8	95.0	44	15	249	43	131	57	74	3.7
50	45	97	M8	101.5	51	15	271	45	131	57	74	4.6
63	45	124	M8	116.5	64	15	321	51	152	66	86	5.8



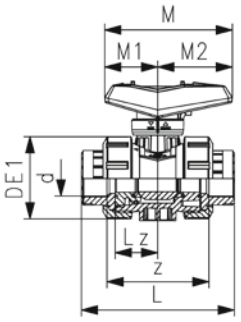
PROGEF Standard Ball Valve type 546 Pro
With threaded sockets PP-H Iso Rp Re

Model:

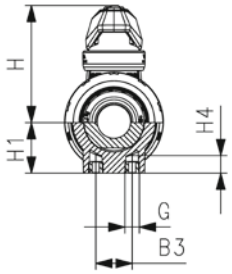
- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**167 546 021**	0.120	**167 546 031**	0.120
20	15	½	10	185	**167 546 022**	0.130	**167 546 032**	0.120
25	20	¾	10	350	**167 546 023**	0.180	**167 546 033**	0.180
32	25	1	10	700	**167 546 024**	0.282	**167 546 034**	0.270
40	32	1 ¼	10	1000	**167 546 025**	0.460	**167 546 035**	0.460
50	40	1 ½	10	1600	**167 546 026**	0.635	**167 546 036**	0.635
63	50	2	10	3100	**167 546 027**	1.190	**167 546 037**	1.190



d (mm)	B3 (mm)	DE1 (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	25	50	M6	60.5	27	12	95	28	82	35	47	69
20	25	50	M6	60.5	27	12	100	28	82	35	47	67
25	25	58	M6	74.0	30	12	114	33	106	44	62	78
32	25	68	M6	80.0	36	12	127	36	106	44	62	85
40	45	84	M8	95.0	44	15	146	43	131	57	74	100
50	45	97	M8	101.5	51	15	152	45	131	57	74	106
63	45	124	M8	116.5	64	15	177	51	152	66	86	121



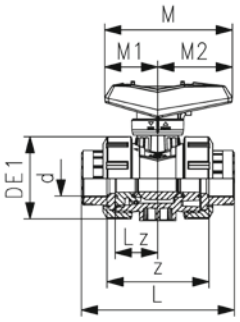
PROGEF Standard Ball valve type 546 Pro
With threaded sockets PP-H ASTM NPT Re

Model:

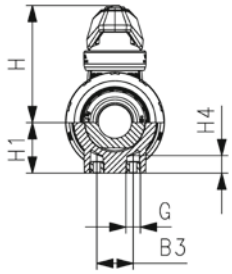
- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**167 546 321**	0.120	**167 546 331**	0.120
20	15	½	10	185	**167 546 322**	0.128	**167 546 332**	0.120
25	20	¾	10	350	**167 546 323**	0.180	**167 546 333**	0.180
32	25	1	10	700	**167 546 324**	0.270	**167 546 334**	0.270
40	32	1 ¼	10	1000	**167 546 325**	0.460	**167 546 335**	0.460
50	40	1 ½	10	1600	**167 546 326**	0.635	**167 546 336**	0.635
63	50	2	10	3100	**167 546 327**	1.204	**167 546 337**	1.190



d (mm)	B3 (mm)	DE1 (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	25	50	M6	60.5	27	12	95	28	82	35	47	69
20	25	50	M6	60.5	27	12	100	28	82	35	47	67
25	25	58	M6	74.0	30	12	114	33	106	44	62	78
32	25	68	M6	80.0	36	12	127	36	106	44	62	85
40	45	84	M8	95.0	44	15	146	43	131	57	74	100
50	45	97	M8	101.5	51	15	152	45	131	57	74	106
63	45	124	M8	116.5	64	15	177	51	152	66	86	121



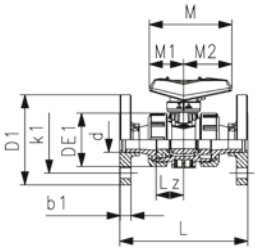
PROGEF Standard Ball Valve type 546 Pro
With fixed flanges PP-H ser. ISO

Model:

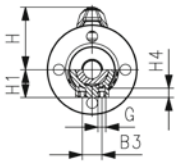
- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	½	10	185	**167 546 182**	1	0.245	**167 546 192**	1	0.245
25	20	¾	10	350	**167 546 183**	1	0.345	**167 546 193**	1	0.345
32	25	1	10	700	**167 546 184**	1	0.492	**167 546 194**	1	0.495
40	32	1 ¼	10	1000	**167 546 185**	1	0.820	**167 546 195**	1	0.824
50	40	1 ½	10	1600	**167 546 186**	1	1.052	**167 546 196**	1	1.066
63	50	2	10	3100	**167 546 187**	1	1.751	**167 546 197**	1	1.751



d (mm)	b1 (mm)	B3 (mm)	DE1 (mm)	D1 (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	k1 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)
20	12	25	50	95	M6	60.5	27	12	56	130	28	82	35	47
25	12	25	58	105	M6	74.0	30	12	75	150	33	106	44	62
32	14	25	68	115	M6	80.0	36	12	85	160	36	106	44	62
40	16	45	84	140	M8	95.0	44	15	100	180	43	131	57	74
50	16	45	97	150	M8	101.5	51	15	110	200	45	131	57	74
63	16	45	124	165	M8	116.5	64	15	125	230	51	152	66	86



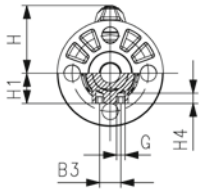
PROGEF Standard Ball Valve type 546 Pro
With backing flanges PP-St ISO with PP-H

Model:

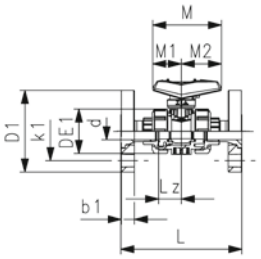
- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
75	65	2 ½	10	5000	**167 546 808**	1	6.352	**167 546 818**	1	5.417
90	80	3	10	7000	**167 546 809**	1	7.907	**167 546 819**	1	7.941
110	100	4	10	11000	**167 546 810**	1	10.896	**167 546 820**	1	9.928



d (mm)	b1 (mm)	B3 (mm)	D1 (mm)	DE1 (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	k1 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)
75	18	70	166	166	M8	169	85	15	145	290	68	270	64	205
90	20	70	200	200	M8	180	105	15	160	310	71	270	64	205
110	20	120	238	238	M12	194	123	22	180	350	82	326	71	255

Ball valves type 542



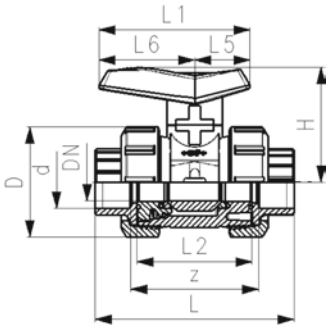
Ball valve type 542 PP-H
With fusion socket

Model:

- For easy installation and removal
- Ball seat PTFE/ red lever

Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	10	71	**167 542 001**	1	0.115	**167 542 011**	1	0.115
20	15	½	10	185	**167 542 002**	1	0.114	**167 542 012**	1	0.114
25	20	¾	10	350	**167 542 003**	1	0.177	**167 542 013**	1	0.177
32	25	1	10	700	**167 542 004**	1	0.244	**167 542 014**	1	0.244
40	32	1 ¼	10	1000	**167 542 005**	1	0.435	**167 542 015**	1	0.435
50	40	1 ½	10	1600	**167 542 006**	1	0.597	**167 542 016**	1	0.597
63	50	2	10	3100	**167 542 007**	1	1.104	**167 542 017**	1	1.104

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
16	50	54	93	72	56	26	46	67
20	50	54	95	72	56	26	46	67
25	58	66	109	93	65	34	59	77
32	68	71	119	93	71	34	59	83
40	84	85	137	110	85	41	69	97
50	97	92	147	110	89	41	69	101
63	124	108	169	128	101	49	79	115



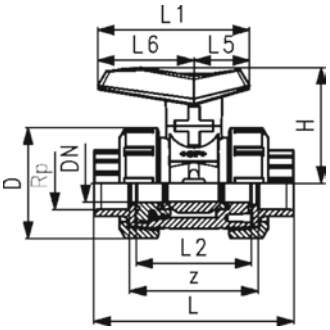
Ball valve type 542 PP-H
With threaded socket (Rp) reinforced
With PTFE ball seal

Model:

- For easy installation and removal
- Ball seat PTFE/ red lever

Option:

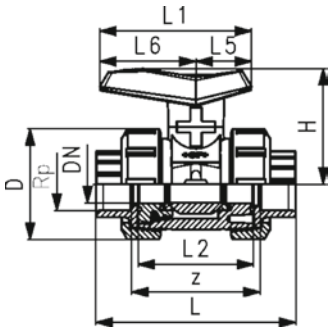
- Individual configuration of the valve possible
- Assembling of a valve tag possible



d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	Rp	⅜	10	71	**167 542 021**	1	0.120
20	15	Rp	½	10	185	**167 542 022**	1	0.130
25	20	Rp	¾	10	350	**167 542 023**	1	0.180
32	25	Rp	1	10	700	**167 542 024**	1	0.282
40	32	Rp	1 ¼	10	1000	**167 542 025**	1	0.460
50	40	Rp	1 ½	10	1600	**167 542 026**	1	0.635
63	50	Rp	2	10	3100	**167 542 027**	1	1.190

d (mm)	FKM Code	SP	Weight (kg)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
16	**167 542 031**	1	0.120	50	54	96	72	56	26	46	70
20	**167 542 032**	1	0.130	50	54	99	72	56	26	46	66
25	**167 542 033**	1	0.180	58	66	111	93	65	34	59	75

table continued on the next page



d (mm)	FKM Code	SP	Weight (kg)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
32	**167 542 034**	1	0.282	68	71	127	93	71	34	59	85
40	**167 542 035**	1	0.460	84	85	147	110	85	41	69	101
50	**167 542 036**	1	0.635	97	92	157	110	89	41	69	111
63	**167 542 037**	1	1.190	124	108	184	128	101	49	79	129



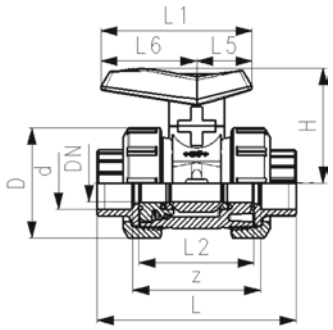
Ball valve type 542 PP-H
With threaded socket (NPT)

Model:

- For easy installation and removal
- Ball seat PTFE/ red lever

Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	10	71	**167 542 321**	1	0.120	**167 542 331**	1	0.120
20	15	½	10	185	**167 542 322**	1	0.128	**167 542 332**	1	0.128
25	20	¾	10	350	**167 542 323**	1	0.180	**167 542 333**	1	0.180
32	25	1	10	700	**167 542 324**	1	0.270	**167 542 334**	1	0.270
40	32	1 ¼	10	1000	**167 542 325**	1	0.460	**167 542 335**	1	0.460
50	40	1 ½	10	1600	**167 542 326**	1	0.635	**167 542 336**	1	0.635
63	50	2	10	3100	**167 542 327**	1	1.204	**167 542 337**	1	1.204

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
16	50	54	96	72	56	26	46	70
20	50	54	99	72	56	26	46	66
25	58	66	111	93	65	34	59	78
32	68	71	127	93	71	34	59	86
40	84	85	147	110	85	41	69	103
50	97	92	157	110	89	41	69	113
63	124	108	184	128	101	49	79	138



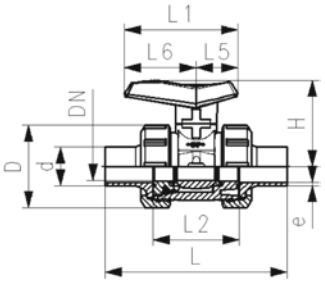
Ball valve type 542 PP-H
With butt fusion spigots SDR11 metric

Model:

- For easy installation and removal
- Ball seat PTFE/ red lever

Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	½	10	185	**167 542 442**	1	0.121	**167 542 452**	1	0.121
25	20	¾	10	350	**167 542 443**	1	0.183	**167 542 453**	1	0.183
32	25	1	10	700	**167 542 444**	1	0.260	**167 542 454**	1	0.260
40	32	1 ¼	10	1000	**167 542 445**	1	0.454	**167 542 455**	1	0.454
50	40	1 ½	10	1600	**167 542 446**	1	0.633	**167 542 456**	1	0.633
63	50	2	10	3100	**167 542 447**	1	1.151	**167 542 457**	1	1.151

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	e (mm)
20	50	54	130	72	56	26	46	1.9
25	58	66	144	93	65	34	59	2.3
32	68	71	151	93	71	34	59	2.9
40	84	85	171	110	85	41	69	3.7
50	97	92	190	110	89	41	69	4.6
63	124	108	221	128	101	49	79	5.8



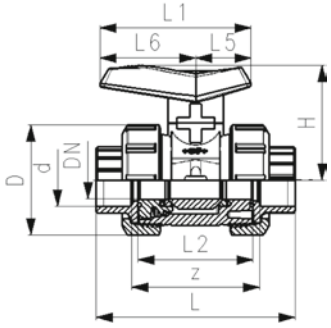
Ball valve type 542 PP-H
With fusion socket (metric)

Model:

- For easy installation and removal
- Ball seat PE/ blue lever
- For water application

Option:

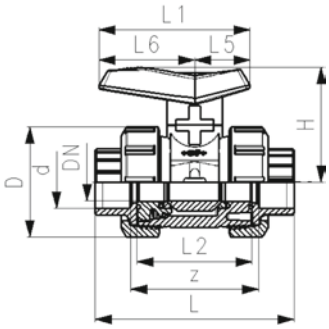
- Individual configuration of the valve possible
- Assembling of a valve tag possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
16	10	⅜	10	71	**167 541 001**	0.115
20	15	½	10	185	**167 541 002**	0.114
25	20	¾	10	350	**167 541 003**	0.177
32	25	1	10	700	**167 541 004**	0.244
40	32	1 ¼	10	1000	**167 541 005**	0.435
50	40	1 ½	10	1600	**167 541 006**	0.597
63	50	2	10	3100	**167 541 007**	1.104

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
16	50	54	93	72	56	26	46	67
20	50	54	95	72	56	26	46	67
25	58	66	109	93	65	34	59	77
32	68	71	119	93	71	34	59	83
40	84	85	137	110	85	41	69	97
50	97	92	147	110	89	41	69	101
63	124	108	169	128	101	49	79	115





Ball valve type 542 PP-H
With threaded socket (Rp)
With PE ball seal

Model:

- For easy installation and removal
- Ball seat PE/ blue lever
- For water application

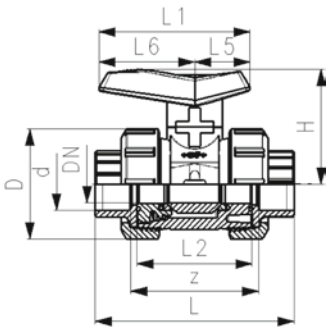
Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
16	10	⅜	10	71	**167 541 021**	0.120
20	15	½	10	185	**167 541 022**	0.130
25	20	¾	10	350	**167 541 023**	0.180
32	25	1	10	700	**167 541 024**	0.282
40	32	1 ¼	10	1000	**167 541 025**	0.460
50	40	1 ½	10	1600	**167 541 026**	0.635
63	50	2	10	3100	**167 541 027**	1.190

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
16	50	54	96	72	56	26	46	70
20	50	54	99	72	56	26	46	66
25	58	66	111	93	65	34	59	75
32	68	71	127	93	71	34	59	85
40	84	85	147	110	85	41	69	101
50	97	92	157	110	89	41	69	111
63	124	108	184	128	101	49	79	129





Ball valve type 542 PP-H
With threaded socket (NPT)

Model:

- For easy installation and removal
- Ball seat PE/ blue lever
- For water application

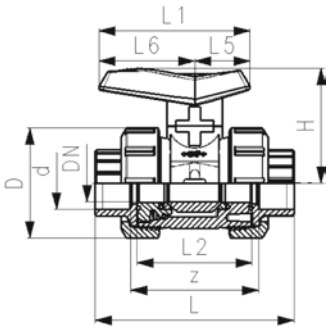
Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
16	10	⅜	10	71	**167 541 321**	0.120
20	15	½	10	185	**167 541 322**	0.128
25	20	¾	10	350	**167 541 323**	0.180
32	25	1	10	700	**167 541 324**	0.270
40	32	1 ¼	10	1000	**167 541 325**	0.460
50	40	1 ½	10	1600	**167 541 326**	0.635
63	50	2	10	3100	**167 541 327**	1.204

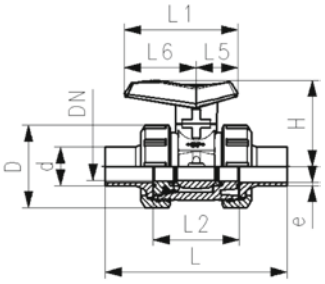
d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
16	50	54	96	72	56	26	46	70
20	50	54	99	72	56	26	46	66
25	58	66	111	93	65	34	59	78

table continued on the next page



d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
32	68	71	127	93	71	34	59	86
40	84	85	147	110	85	41	69	103
50	97	92	157	110	89	41	69	113
63	124	108	184	128	101	49	79	138





Ball valve type 542 PP-H
With butt fusion spigots SDR11

Model:

- For easy installation and removal
- Ball seat PE/ blue lever
- For water application

Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
20	15	½	10	185	**167 541 442**	1	0.121
25	20	¾	10	350	**167 541 443**	1	0.183
32	25	1	10	700	**167 541 444**	1	0.260
40	32	1 ¼	10	1000	**167 541 445**	1	0.454
50	40	1 ½	10	1600	**167 541 446**	1	0.633
63	50	2	10	3100	**167 541 447**	1	1.151

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	e (mm)
20	50	54	130	72	56	26	46	1.9
25	58	66	144	93	65	34	59	2.3
32	68	71	151	93	71	34	59	2.9
40	84	85	171	110	85	41	69	3.7
50	97	92	190	110	89	41	69	4.6
63	124	108	220	128	101	49	79	5.8

Ball valves type 523 Pro



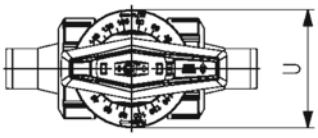
PROGEF Standard Metering ball valve type 523 Pro
With socket fusion spigots metric

Model:

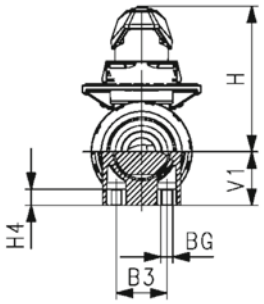
- Material: PP-H
- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seat PTFE
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts compatible to Type 523

Option:

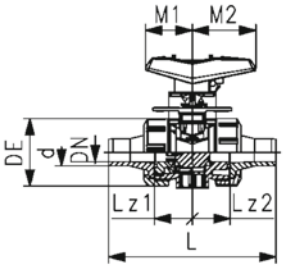
- Other materials on demand



d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	10	11	**167 523 441**	0.130	**167 523 451**	0.130
20	15	10	20	**167 523 442**	0.130	**167 523 452**	0.130



d (mm)	M1 (mm)	M2 (mm)	Lz1 (mm)	Lz2 (mm)	L (mm)	V1 (mm)	H (mm)	Hmax (mm)	DE (mm)	BG	B3 (mm)	H4 (mm)	U (mm)
16	35	47	28	28	110	27	72	99	50	M6	25	12	59
20	35	47	28	28	120	27	72	99	50	M6	25	12	59





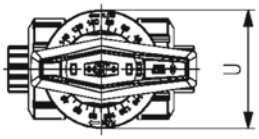
PROGEF Standard Metering ball valve type 523 Pro
With fusion sockets metric

Model:

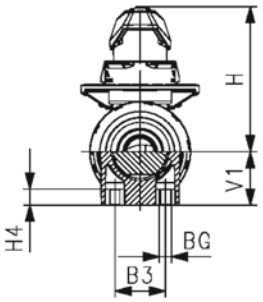
- Material: PP-H
- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seat PTFE
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts compatible to Type 523

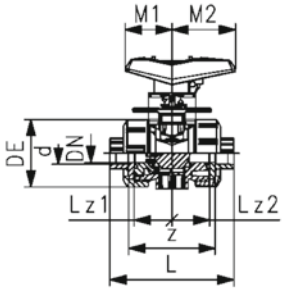
Option:

- Other materials on demand



d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	10	11	**167 523 401**	0.130	**167 523 411**	0.130
20	15	10	20	**167 523 402**	0.130	**167 523 412**	0.130





d (mm)	M1 (mm)	M2 (mm)	Lz1 (mm)	Lz2 (mm)	L (mm)	V1 (mm)	H (mm)	Hmax (mm)	DE (mm)	BG	B3 (mm)	H4 (mm)	U (mm)	z (mm)
16	35	47	28	28	92	27	72	99	50	M6	25	12	59	67
20	35	47	28	28	95	27	72	99	50	M6	25	12	59	67



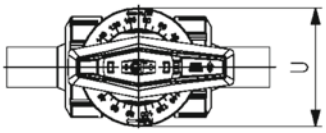
PROGEF Standard Metering ball valve type 523 Pro
With butt fusion spigots IR-Plus SDR11 metric

Model:

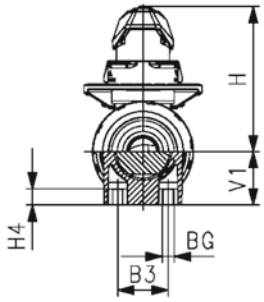
- Material: PP-H
- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seat PTFE
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts compatible to Type 523

Option:

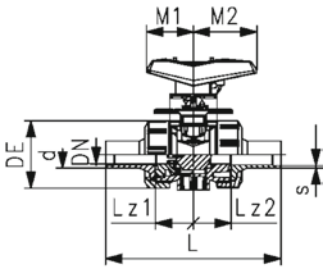
- Other materials on demand



d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	10	20	**167 523 482**	0.130	**167 523 492**	0.130

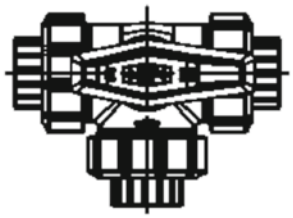


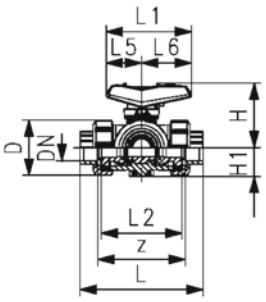
d (mm)	M1 (mm)	M2 (mm)	Lz1 (mm)	Lz2 (mm)	L (mm)	V1 (mm)	H (mm)	Hmax (mm)	DE (mm)	BG	B3 (mm)	H4 (mm)	U (mm)	s (mm)
20	35	47	28	28	130	27	72	99	50	M6	25	12	59	1.9

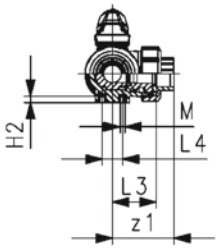


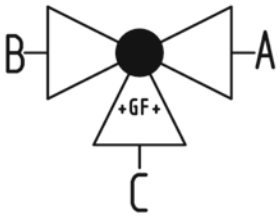
Ball valves type 543 Pro













PROGEF Standard 3-Way ball valve type 543 Pro
Horizontal/L-port
With fusion sockets metric

Model:

- Lockable lever as standard (DN10-DN50)
- Material: PP-H
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

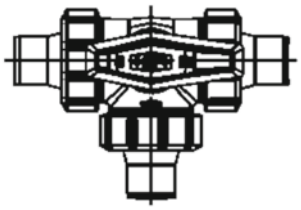
Option:

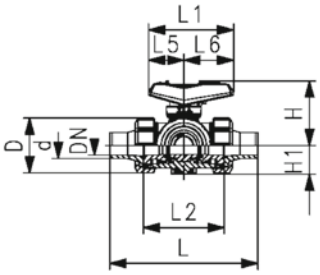
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

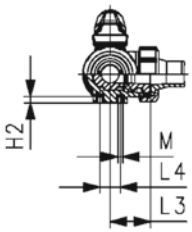
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	50	**167 543 001**	0.161	**167 543 011**	0.161
20	15	½	10	75	**167 543 002**	0.165	**167 543 012**	0.165
25	20	¾	10	150	**167 543 003**	0.237	**167 543 013**	0.237
32	25	1	10	280	**167 543 004**	0.374	**167 543 014**	0.361
40	32	1 ¼	10	480	**167 543 005**	0.616	**167 543 015**	0.616
50	40	1 ½	10	620	**167 543 006**	0.950	**167 543 016**	0.912
63	50	2	10	1230	**167 543 007**	1.843	**167 543 017**	1.882

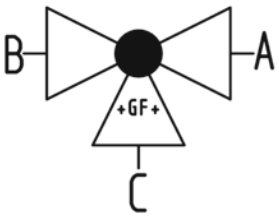
d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	50	61	28	8	110	82	72	36	25	35	47	6	82	41	⅜
20	50	61	27	8	112	82	72	36	25	35	47	6	82	41	½
25	58	74	30	8	129	106	85	43	25	44	62	6	97	49	¾
32	68	80	36	8	146	106	98	49	25	44	62	6	110	55	1
40	84	95	44	9	170	131	118	59	45	57	74	8	132	66	1 ¼
50	97	102	51	9	193	131	135	68	45	57	74	8	151	76	1 ½
63	124	117	64	9	244	152	176	88	45	66	86	8	188	94	2













PROGEF Standard 3-Way ball valve type 543 Pro
Horizontal/L-port
With socket fusion spigots metric

Model:

- Lockable lever as standard (DN10-DN50)
- Material: PP-H
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

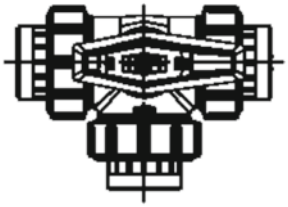
Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	10	50	**167 543 021**	1	0.165	**167 543 031**	1	0.165
20	15	½	10	75	**167 543 022**	1	0.171	**167 543 032**	1	0.171
25	20	¾	10	150	**167 543 023**	1	0.247	**167 543 033**	1	0.247
32	25	1	10	280	**167 543 024**	1	0.377	**167 543 034**	1	0.377
40	32	1 ¼	10	480	**167 543 025**	1	0.629	**167 543 035**	1	0.629
50	40	1 ½	10	620	**167 543 026**	1	0.953	**167 543 036**	1	0.953
63	50	2	10	1230	**167 543 027**	1	1.855	**167 543 037**	1	1.855

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	M	closest inch (inch)
16	50	61	28	8	126	82	72	36	25	35	47	133	6	⅜
20	50	61	28	8	136	82	72	36	25	35	47	144	6	½
25	58	74	32	8	159	106	85	43	25	44	62	170	6	¾
32	68	80	36	8	178	106	98	49	25	44	62	191	6	1
40	84	95	45	9	204	131	118	59	45	57	74	223	8	1 ¼
50	97	102	51	9	237	131	135	68	45	57	74	256	8	1 ½
63	124	117	65	9	296	152	176	88	45	66	86	319	8	2





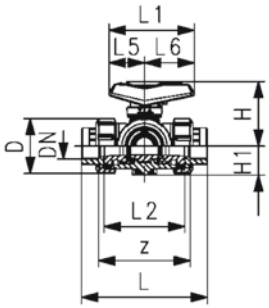
PROGEF Standard 3-Way ball valve type 543 Pro
Horizontal/L-port
With threaded sockets reinforced Rp

Model:

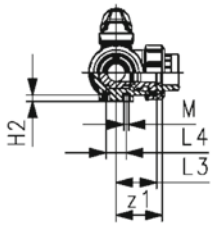
- Material: PP-H
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

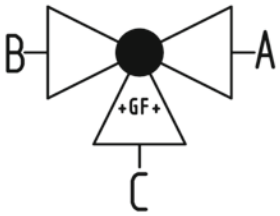
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	Rp	⅜	10	50	**167 543 081**	1	0.161
20	15	Rp	½	10	75	**167 543 082**	1	0.165
25	20	Rp	¾	10	150	**167 543 083**	1	0.237
32	25	Rp	1	10	280	**167 543 084**	1	0.361
40	32	Rp	1 ¼	10	480	**167 543 085**	1	0.616
50	40	Rp	1 ½	10	620	**167 543 086**	1	0.912
63	50	Rp	2	10	1230	**167 543 087**	1	1.773



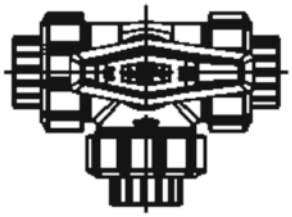
FKM Code	SP	Weight (kg)
167 543 091	1	0.161
167 543 092	1	0.165
167 543 093	1	0.237
167 543 094	1	0.361
167 543 095	1	0.616
167 543 096	1	0.912
167 543 097	1	1.773

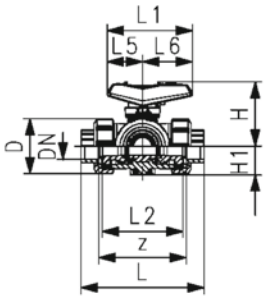


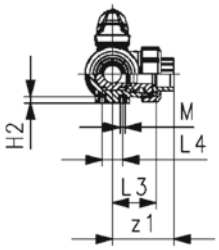
D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
50	61	28	8	112	82	72	36	25	35	47	6	86	43
50	61	28	8	114	82	72	36	25	35	47	6	84	42
58	74	32	8	131	106	85	43	25	44	62	6	99	50
68	80	36	8	154	106	98	49	25	44	62	6	112	56
84	95	45	9	180	131	118	59	45	57	74	8	132	66
97	102	51	9	203	131	135	68	45	57	74	8	153	77
124	117	65	9	258	152	176	88	45	66	86	8	196	98

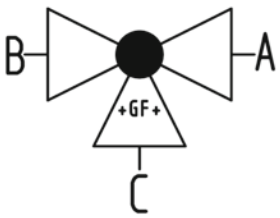


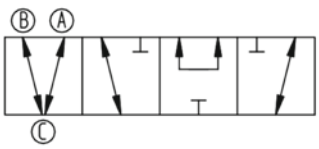












PROGEF Standard 3-Way ball valve type 543 Pro
Horizontal/T-port
With fusion sockets metric

Model:

- Material: PP-H
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

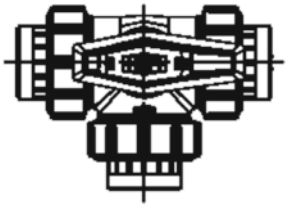
Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	140	**167 543 201**	0.160	**167 543 211**	0.160
20	15	½	10	200	**167 543 202**	0.164	**167 543 212**	0.164
25	20	¾	10	470	**167 543 203**	0.236	**167 543 213**	0.236
32	25	1	10	793	**167 543 204**	0.372	**167 543 214**	0.357
40	32	1 ¼	10	1290	**167 543 205**	0.631	**167 543 215**	0.609
50	40	1 ½	10	1910	**167 543 206**	0.936	**167 543 216**	0.898
63	50	2	10	3100	**167 543 207**	1.822	**167 543 217**	1.857

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	50	61	28	8	110	82	72	36	25	35	47	6	82	41	⅜
20	50	61	28	8	112	82	72	36	25	35	47	6	82	41	½
25	58	74	32	8	129	106	85	43	25	44	62	6	97	49	¾
32	68	80	36	8	146	106	98	49	25	44	62	6	110	55	1
40	84	95	45	9	170	131	118	59	45	57	74	8	132	66	1 ¼
50	97	102	51	9	193	131	135	68	45	57	74	8	151	76	1 ½
63	124	117	65	9	244	152	176	88	45	66	86	8	188	94	2





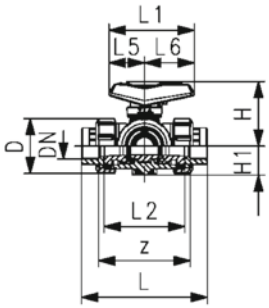
PROGEF Standard 3-Way ball valve type 543 Pro
Horizontal/T-port
With threaded sockets reinforced Rp

Model:

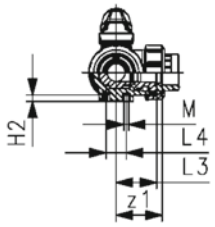
- Material: PP-H
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

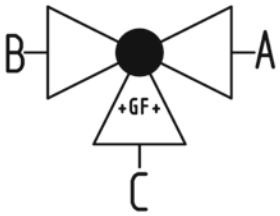
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



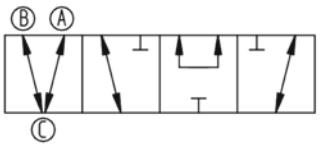
d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	Rp	⅜	10	140	**167 543 281**	1	0.160
20	15	Rp	½	10	200	**167 543 282**	1	0.164
25	20	Rp	¾	10	470	**167 543 283**	1	0.236
32	25	Rp	1	10	793	**167 543 284**	1	0.357
40	32	Rp	1 ¼	10	1290	**167 543 285**	1	0.609
50	40	Rp	1 ½	10	1910	**167 543 286**	1	0.898
63	50	Rp	2	10	3100	**167 543 287**	1	1.744



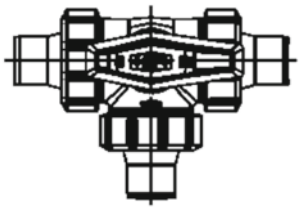
FKM Code	SP	Weight (kg)
167 543 291	1	0.160
167 543 292	1	0.164
167 543 293	1	0.236
167 543 294	1	0.357
167 543 295	1	0.609
167 543 296	1	0.898
167 543 297	1	1.744

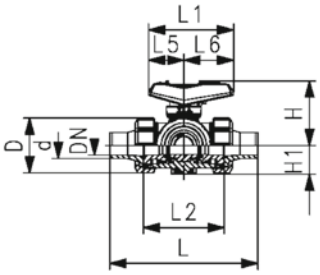


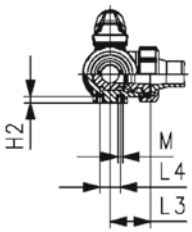
D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
50	61	28	8	112	82	72	36	25	35	47	6	86	43
50	61	28	8	114	82	72	36	25	35	47	6	84	42
58	74	32	8	131	106	85	43	25	44	62	6	99	50
68	80	36	8	154	106	98	49	25	44	62	6	112	56
84	95	45	9	180	131	118	59	45	57	74	8	132	66
97	102	51	9	203	131	135	68	45	57	74	8	153	77
124	117	65	9	258	152	176	88	45	66	86	8	196	98

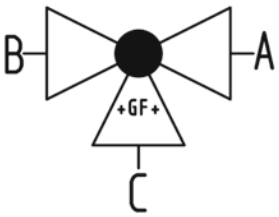


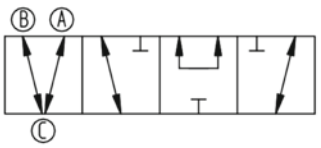












PROGEF Standard 3-Way ball valve type 543 Pro
Horizontal/T-port
With socket fusion spigots metric

Model:

- Material: PP-H
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

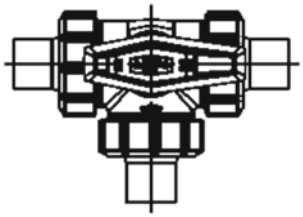
Option:

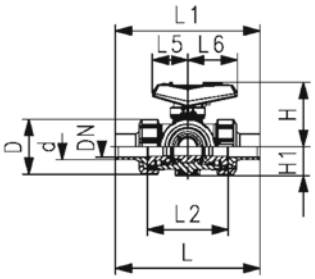
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

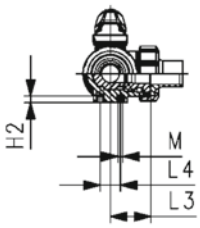
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	10	140	**167 543 221**	1	0.164	**167 543 231**	1	0.164
20	15	½	10	200	**167 543 222**	1	0.170	**167 543 232**	1	0.170
25	20	¾	10	470	**167 543 223**	1	0.245	**167 543 233**	1	0.245
32	25	1	10	793	**167 543 224**	1	0.372	**167 543 234**	1	0.372
40	32	1 ¼	10	1290	**167 543 225**	1	0.622	**167 543 235**	1	0.622
50	40	1 ½	10	1910	**167 543 226**	1	0.939	**167 543 236**	1	0.939
63	50	2	10	3100	**167 543 227**	1	1.913	**167 543 237**	1	1.826

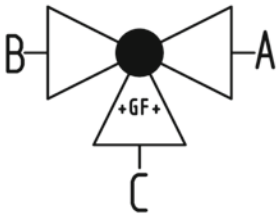
d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	M	closest inch (inch)
16	50	61	28	8	126	82	72	36	25	35	47	133	6	⅜
20	50	61	28	8	136	82	72	36	25	35	47	144	6	½
25	58	74	32	8	159	106	85	43	25	44	62	170	6	¾
32	68	80	36	8	178	106	98	49	25	44	62	191	6	1
40	84	95	45	9	204	131	118	59	45	57	74	223	8	1 ¼
50	97	102	51	9	237	131	135	68	45	57	74	256	8	1 ½
63	124	117	65	9	296	152	176	88	45	66	86	319	8	2

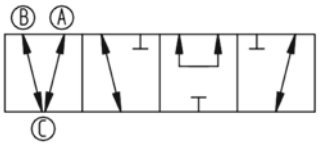












PROGEF Standard 3-Way ball valve type 543 Pro
Horizontal/T-port
With butt fusion spigots IR-Plus SDR11 metric

Model:

- Material: PP-H
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

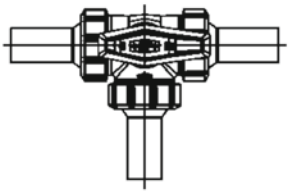
Option:

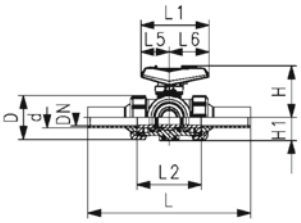
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

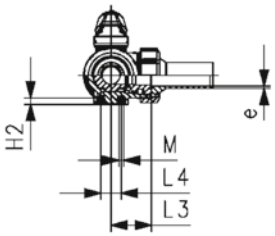
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	200	**167 543 262**	0.173	**167 543 272**	0.170
25	20	¾	10	470	**167 543 263**	0.245	**167 543 273**	0.245
32	25	1	10	793	**167 543 264**	0.372	**167 543 274**	0.372
40	32	1 ¼	10	1290	**167 543 265**	0.622	**167 543 275**	0.622
50	40	1 ½	10	1910	**167 543 266**	0.939	**167 543 276**	0.939
63	50	2	10	3100	**167 543 267**	1.826	**167 543 277**	1.826

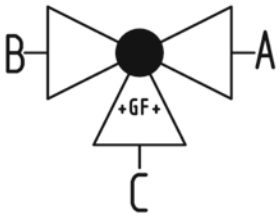
d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	e (mm)	closest inch (inch)
20	50	61	28	8	146	82	72	36	25	35	47	6	1.9	½
25	58	61	32	8	163	82	85	43	25	35	47	6	2.3	¾
32	68	74	36	8	178	106	98	49	25	44	62	6	2.9	1
40	84	80	45	9	204	106	118	59	45	44	62	8	3.7	1 ¼
50	97	95	51	9	237	131	135	68	45	57	74	8	4.6	1 ½
63	124	102	65	9	296	131	176	88	45	57	74	8	5.8	2

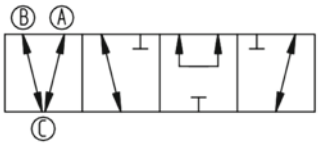












PROGEF Standard 3-Way ball valve type 543 Pro
Horizontal/T-port
With butt fusion spigots long SDR11 metric

Model:

- Material: PP-H
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

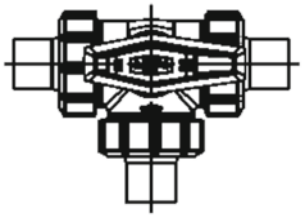
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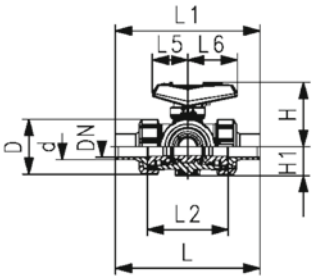
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

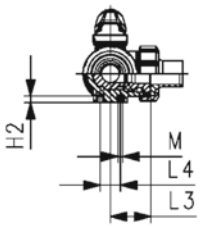
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	½	10	200	**167 543 302**	1	0.160	**167 543 312**	1	1.744
25	20	¾	10	470	**167 543 303**	1	0.164	**167 543 313**	1	0.160
32	25	1	10	793	**167 543 304**	1	0.236	**167 543 314**	1	0.164
40	32	1 ¼	10	1290	**167 543 305**	1	0.357	**167 543 315**	1	0.236
50	40	1 ½	10	1910	**167 543 306**	1	0.609	**167 543 316**	1	0.357
63	50	2	10	3100	**167 543 307**	1	0.898	**167 543 317**	1	0.609

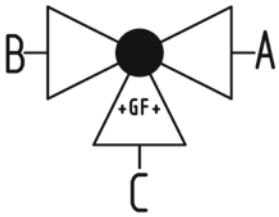
d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	e (mm)	closest inch (inch)
20	50	61	28	8	210	82	72	36	25	35	45	6	1.9	½
25	58	61	32	8	237	82	85	43	25	35	58	6	2.3	¾
32	68	74	36	8	250	106	98	49	25	44	58	6	2.9	1
40	84	80	45	9	282	106	118	59	45	44	74	8	3.7	1 ¼
50	97	95	51	9	317	131	135	68	45	57	74	8	4.6	1 ½
63	124	102	65	9	396	131	176	88	45	57	87	8	5.8	2













PROGEF Standard 3-Way ball valve type 543 Pro
Horizontal/L-port
With butt fusion spigots IR-Plus SDR11 metric

Model:

- Material: PP-H
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

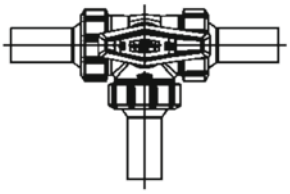
Option:

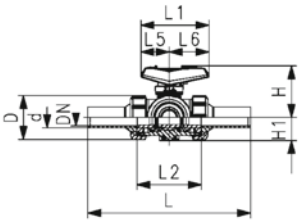
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

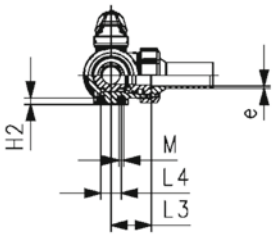
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	75	**167 543 062**	0.171	**167 543 072**	0.171
25	20	¾	10	150	**167 543 063**	0.247	**167 543 073**	0.247
32	25	1	10	280	**167 543 064**	0.377	**167 543 074**	0.377
40	32	1 ¼	10	480	**167 543 065**	0.629	**167 543 075**	0.629
50	40	1 ½	10	620	**167 543 066**	0.989	**167 543 076**	0.953
63	50	2	10	1230	**167 543 067**	1.928	**167 543 077**	1.855

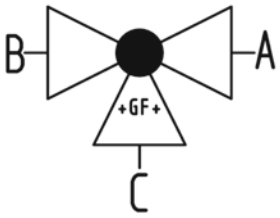
d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	e (mm)	closest inch (inch)
20	50	61	28	8	146	82	72	36	25	35	47	6	1.9	½
25	58	74	32	8	163	106	85	43	25	44	62	6	2.3	¾
32	68	80	36	8	178	106	98	49	25	44	62	6	2.9	1
40	84	95	45	9	204	131	118	59	45	57	74	8	3.7	1 ¼
50	97	102	51	9	237	131	135	68	45	57	74	8	4.6	1 ½
63	124	117	65	9	296	152	176	88	45	66	86	8	5.8	2













PROGEF Standard 3-Way ball valve type 543 Pro
Horizontal/L-port
With butt fusion spigots long SDR11 metric

Model:

- Material: PP-H
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	½	10	75	**167 543 102**	1	0.179	**167 543 112**	1	0.179
25	20	¾	10	150	**167 543 103**	1	0.262	**167 543 113**	1	0.262
32	25	1	10	280	**167 543 104**	1	0.399	**167 543 114**	1	0.399
40	32	1 ¼	10	480	**167 543 105**	1	0.675	**167 543 115**	1	0.675
50	40	1 ½	10	620	**167 543 106**	1	1.032	**167 543 116**	1	1.032
63	50	2	10	1230	**167 543 107**	1	2.221	**167 543 117**	1	2.221

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	e (mm)	closest inch (inch)
20	50	61	28	8	210	82	72	36	25	35	47	6	1.9	½
25	58	61	32	8	237	82	85	43	25	35	47	6	2.3	¾
32	68	74	36	8	250	106	98	49	25	44	62	6	2.9	1
40	84	80	45	9	282	106	118	59	45	44	62	8	3.7	1 ¼
50	97	95	51	9	317	131	135	68	45	57	74	8	4.6	1 ½
63	124	102	65	9	396	131	176	88	45	57	74	8	5.8	2

Ball valves electric type 127



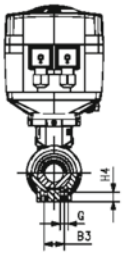
PROGEF Standard Ball valve type 127
100-230V
With manual emergency override
With fusion sockets PP-H ISO

Model:

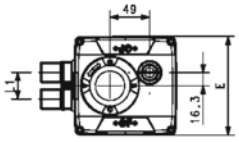
- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close)
- Integrated stainless steel mounting inserts

Option:

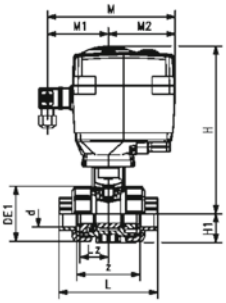
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**199 127 502**	2.100	**199 127 512**	2.100
20	15	½	10	185	**199 127 503**	2.099	**199 127 513**	2.100
25	20	¾	10	350	**199 127 504**	2.200	**199 127 514**	2.200
32	25	1	10	700	**199 127 505**	2.249	**199 127 515**	2.300
40	32	1 ¼	10	1000	**199 127 506**	2.433	**199 127 516**	2.600
50	40	1 ½	10	1600	**199 127 507**	3.000	**199 127 517**	3.000
63	50	2	10	3100	**199 127 508**	3.800	**199 127 518**	3.800



d (mm)	Actuator	B3 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	EA15	25	50	122	M6	197	27	12	93	33	28	161	77	83	67
20	EA15	25	50	122	M6	197	27	12	95	33	28	161	77	83	66
25	EA15	25	58	122	M6	201	30	12	109	33	33	161	77	83	77
32	EA15	25	68	122	M6	207	36	12	119	33	36	161	77	83	83
40	EA15	45	84	122	M8	213	44	15	135	33	43	161	77	83	99
50	EA15	45	97	122	M8	219	51	15	147	33	45	161	77	83	105
63	EA15	45	124	122	M8	234	64	15	168	33	51	161	77	83	117





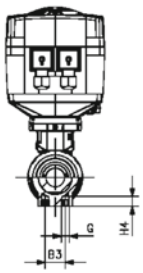
PROGEF Standard Ball valve type 127
100-230V
With manual emergency override
With socket fusion spigots PP-H ISO

Model:

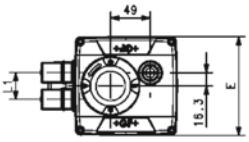
- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close)
- Integrated stainless steel mounting inserts

Option:

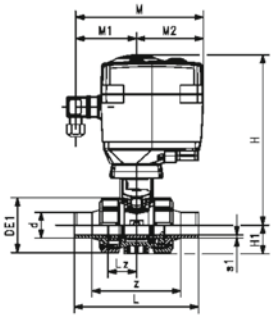
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**199 127 522**	2.100	**199 127 532**	2.100
20	15	½	10	185	**199 127 523**	2.101	**199 127 533**	2.100
25	20	¾	10	350	**199 127 524**	2.200	**199 127 534**	2.200
32	25	1	10	700	**199 127 525**	2.255	**199 127 535**	2.300
40	32	1 ¼	10	1000	**199 127 526**	2.438	**199 127 536**	2.600
50	40	1 ½	10	1600	**199 127 527**	2.621	**199 127 537**	2.629
63	50	2	10	3100	**199 127 528**	3.800	**199 127 538**	3.800



d (mm)	Actuator	B3 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	s1 (mm)
16	EA15	25	50	122	M6	197	27	12	110	33	28	161	77	83	3.0
20	EA15	25	50	122	M6	197	27	12	120	33	28	161	77	83	3.0
25	EA15	25	58	122	M6	201	30	12	139	33	33	161	77	83	3.0
32	EA15	25	68	122	M6	207	36	12	150	33	36	161	77	83	4.0
40	EA15	45	84	122	M8	213	44	15	170	33	43	161	77	83	4.5
50	EA15	45	97	122	M8	219	51	15	190	33	45	161	77	83	5.5
63	EA15	45	124	122	M8	234	64	15	220	33	51	161	77	83	7.0



d (mm)	z (mm)
16	84
20	92
25	107
32	114
40	130
50	144
63	166



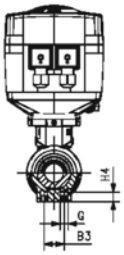
PROGEF Standard Ball valve type 127
24V
With manual emergency override
With fusion sockets PP-H ISO

Model:

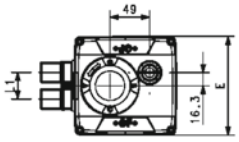
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close)
- Integrated stainless steel mounting inserts
- IP68 Rating

Option:

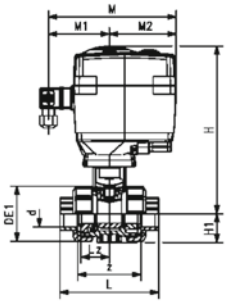
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**199 127 542**	2.100	**199 127 552**	2.100
20	15	½	10	185	**199 127 543**	2.100	**199 127 553**	2.100
25	20	¾	10	350	**199 127 544**	2.167	**199 127 554**	2.200
32	25	1	10	700	**199 127 545**	2.300	**199 127 555**	2.241
40	32	1 ¼	10	1000	**199 127 546**	2.418	**199 127 556**	2.600
50	40	1 ½	10	1600	**199 127 547**	3.000	**199 127 557**	3.000
63	50	2	10	3100	**199 127 548**	3.800	**199 127 558**	3.800



d (mm)	Actuator	B3 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	EA15	25	50	122	M6	197	27	12	93	33	28	161	77	83	67
20	EA15	25	50	122	M6	197	27	12	95	33	28	161	77	83	66
25	EA15	25	58	122	M6	201	30	12	109	33	33	161	77	83	77
32	EA15	25	68	122	M6	207	36	12	119	33	36	161	77	83	83
40	EA15	45	84	122	M8	213	44	15	135	33	43	161	77	83	99
50	EA15	45	97	122	M8	219	51	15	147	33	45	161	77	83	105
63	EA15	45	124	122	M8	234	64	15	168	33	51	161	77	83	117





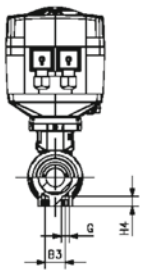
PROGEF Standard Ball valve type 127
24V
With manual emergency override
With socket fusion spigots PP-H ISO

Model:

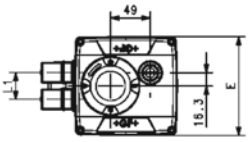
- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close)
- Integrated stainless steel mounting inserts

Option:

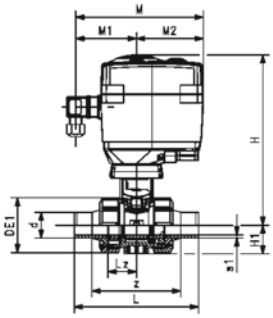
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**199 127 562**	2.100	**199 127 572**	2.100
20	15	½	10	185	**199 127 563**	2.100	**199 127 573**	2.096
25	20	¾	10	350	**199 127 564**	2.200	**199 127 574**	2.200
32	25	1	10	700	**199 127 565**	2.245	**199 127 575**	2.300
40	32	1 ¼	10	1000	**199 127 566**	2.600	**199 127 576**	2.600
50	40	1 ½	10	1600	**199 127 567**	3.000	**199 127 577**	3.000
63	50	2	10	3100	**199 127 568**	3.800	**199 127 578**	3.800



d (mm)	Actuator	B3 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	s1 (mm)
16	EA15	25	50	122	M6	197	27	12	110	33	28	161	77	83	3.0
20	EA15	25	50	122	M6	197	27	12	120	33	28	161	77	83	3.0
25	EA15	25	58	122	M6	201	30	12	139	33	33	161	77	83	3.0
32	EA15	25	68	122	M6	207	36	12	150	33	36	161	77	83	4.0
40	EA15	45	84	122	M8	213	44	15	170	33	43	161	77	83	4.5
50	EA15	45	97	122	M8	219	51	15	190	33	45	161	77	83	5.5
63	EA15	45	124	122	M8	234	64	15	220	33	51	161	77	83	7.0



d (mm)	z (mm)
16	84
20	92
25	107
32	114
40	130
50	144
63	166



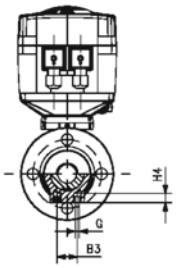
PROGEF Standard Ball valve type 127
100-230V
With manual emergency override
With fixed flanges PP-H ser. ISO

Model:

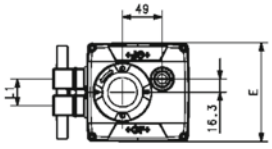
- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close)
- Integrated stainless steel mounting inserts

Option:

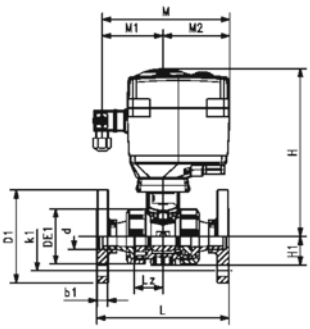
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	185	**199 127 583**	2.300	**199 127 593**	2.300
25	20	¾	10	350	**199 127 584**	2.500	**199 127 594**	2.500
32	25	1	10	700	**199 127 585**	2.555	**199 127 595**	2.700
40	32	1 ¼	10	1000	**199 127 586**	3.200	**199 127 596**	3.200
50	40	1 ½	10	1600	**199 127 587**	3.700	**199 127 597**	3.700
63	50	2	10	3100	**199 127 588**	4.800	**199 127 598**	4.800



d (mm)	Actuator	b1 (mm)	B3 (mm)	D1 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	k1 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)
20	EA15	12	25	95	50	122	M6	197	27	12	56	130	33	28	161
25	EA15	12	25	105	58	122	M6	201	30	12	75	150	33	33	161
32	EA15	14	25	115	68	122	M6	207	36	12	85	160	33	36	161
40	EA15	16	45	140	84	122	M6	213	44	15	100	180	33	43	161
50	EA15	16	45	150	97	122	M6	219	51	15	110	200	33	45	161
63	EA15	18	45	165	124	122	M6	234	64	15	125	230	33	51	161



d (mm)	M1 (mm)	M2 (mm)
20	77	83
25	77	83
32	77	83
40	77	83
50	77	83
63	77	83



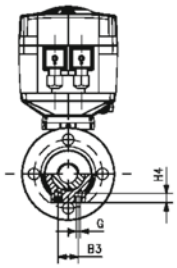
PROGEF Standard Ball valve type 127
24V
With manual emergency override
With fixed flanges PP-H ser. ISO

Model:

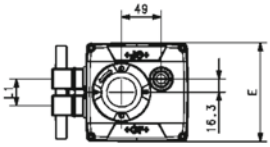
- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close)
- Integrated stainless steel mounting inserts

Option:

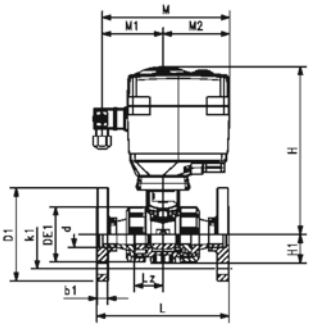
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
20	15	½	10	185	**199 127 783**	2.300
25	20	¾	10	350	**199 127 784**	2.500
32	25	1	10	700	**199 127 785**	2.700
40	32	1 ¼	10	1000	**199 127 786**	2.496
50	40	1 ½	10	1600	**199 127 787**	3.700
63	50	2	10	3100	**199 127 788**	4.800



d (mm)	Actuator	b1 (mm)	B3 (mm)	D1 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	k1 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)
20	EA15	12	25	95	50	122	M6	197	27	12	56	120	33	28	161
25	EA15	12	25	105	58	122	M6	201	30	12	75	139	33	33	161
32	EA15	14	25	115	68	122	M6	207	36	12	85	150	33	36	161
40	EA15	16	45	140	84	122	M8	213	44	15	100	170	33	43	161
50	EA15	16	45	150	97	122	M8	219	51	15	110	189	33	45	161
63	EA15	18	45	165	124	122	M8	234	64	15	125	219	33	51	161



d (mm)	M1 (mm)	M2 (mm)
20	77	83
25	77	83
32	77	83
40	77	83
50	77	83
63	77	83

Ball valves electric type 168



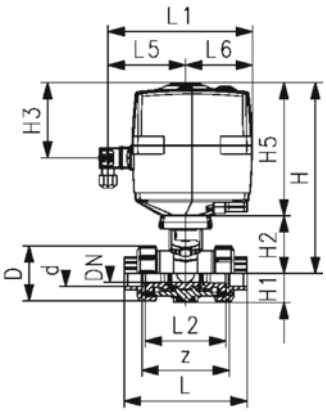
PROGEF Standard 3-Way ball valve type 543 Pro
Horizontal/L-port 100-230V
With manual emergency override
With fusion sockets metric

Model:

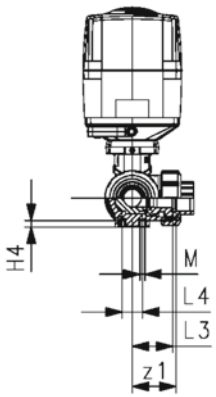
- Voltage 100-230V, 50-60Hz
- Factory set control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts
- Material: PP-H

Option:

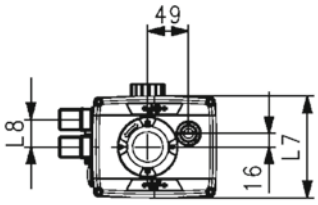
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board



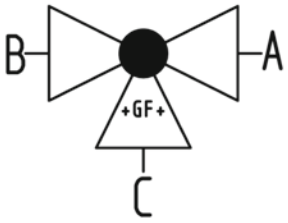
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EA	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	50	EA25	**199 168 022**	2.038	**199 168 032**	2.038
20	15	½	10	75	EA25	**199 168 023**	2.042	**199 168 033**	2.042
25	20	¾	10	150	EA25	**199 168 024**	2.132	**199 168 034**	2.132
32	25	1	10	280	EA25	**199 168 025**	2.257	**199 168 035**	2.257
40	32	1 ¼	10	480	EA25	**199 168 026**	2.548	**199 168 036**	2.548
50	40	1 ½	10	620	EA25	**199 168 027**	2.844	**199 168 037**	2.844
63	50	2	10	1230	EA25	**199 168 028**	4.205	**199 168 038**	3.751



d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)
16	50	231	28	64	94	167	8	110	180	72	36	25	97	83	122
20	50	231	28	64	94	167	8	112	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	129	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	146	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	170	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	193	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	244	180	176	88	45	97	83	122



d (mm)	L8 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	33	6	82	41	⅜
20	33	6	82	41	½
25	33	6	97	49	¾
32	33	6	110	55	1
40	33	8	132	66	1 ¼
50	33	8	151	76	1 ½
63	33	8	188	94	2

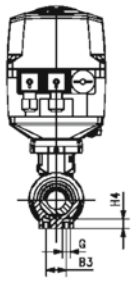


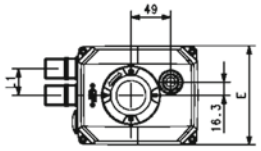


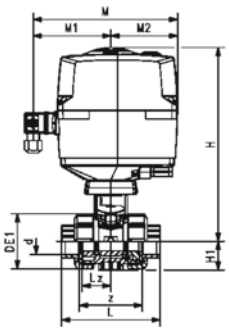
Ball valves electric type 180











PROGEF Standard Ball valve type 180
100-230V
With manual emergency override
With fusion sockets PP-H ISO

Model:

- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

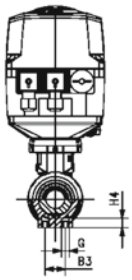
- Other valve and actuator configurations available
- Optional accessories: Monitoring board, Positioner, Profibus DP board, Modbus TCP EA 25-250 Ethernet Interface Card

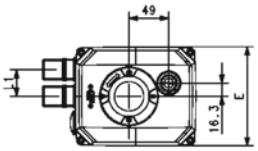
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**199 180 002**	2.100	**199 180 012**	2.100
20	15	½	10	185	**199 180 003**	2.439	**199 180 013**	2.100
25	20	¾	10	350	**199 180 004**	2.200	**199 180 014**	2.200
32	25	1	10	700	**199 180 005**	2.577	**199 180 015**	2.589
40	32	1 ¼	10	1000	**199 180 006**	2.763	**199 180 016**	2.600
50	40	1 ½	10	1600	**199 180 007**	3.000	**199 180 017**	3.000
63	50	2	10	3100	**199 180 008**	3.800	**199 180 018**	3.482
75	65	2 ½	10	5000	**199 180 009**	6.200	**199 180 019**	6.200
90	80	3	10	7000	**199 180 010**	7.200	**199 180 020**	7.200
110	100	4	10	11000	**199 180 011**	11.200	**199 180 021**	11.200

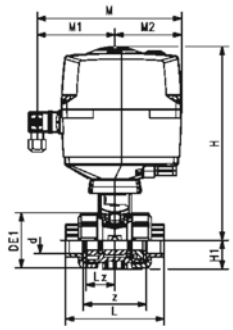
d (mm)	Actuator	B3 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	EA25	25	50	122	M6	227	27	12	93	33	28	180	97	83	67
20	EA25	25	50	122	M6	227	27	12	95	33	28	180	97	83	66
25	EA25	25	58	122	M6	231	30	12	109	33	33	180	97	83	77
32	EA25	25	68	122	M6	237	36	12	119	33	36	180	97	83	83
40	EA25	45	84	122	M8	243	44	15	135	33	43	180	97	83	99
50	EA25	45	97	122	M8	249	51	15	147	33	45	180	97	83	105
63	EA25	45	124	122	M8	264	64	15	168	33	51	180	97	83	117
75	EA45	70	166	122	M8	313	85	15	233	33	68	180	98	82	167
90	EA45	70	200	122	M8	325	105	15	254	33	71	180	98	82	180
110	EA120	120	238	122	M12	363	123	22	301	33	82	180	98	82	215











PROGEF Standard Ball valve type 180
24V
With manual emergency override
With fusion sockets PP-H ISO

Model:

- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

- Other valve and actuator configurations available
- Optional accessories: Monitoring board, Positioner, Profibus DP board, Modbus TCP EA 25-250 Ethernet Interface Card

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**199 180 042**	2.100	**199 180 052**	2.100
20	15	½	10	185	**199 180 043**	2.413	**199 180 053**	2.100
25	20	¾	10	350	**199 180 044**	2.483	**199 180 054**	2.200
32	25	1	10	700	**199 180 045**	2.300	**199 180 055**	2.300
40	32	1 ¼	10	1000	**199 180 046**	2.746	**199 180 056**	2.600
50	40	1 ½	10	1600	**199 180 047**	3.555	**199 180 057**	3.000
63	50	2	10	3100	**199 180 048**	3.447	**199 180 058**	3.460
75	65	2 ½	10	5000	**199 180 049**	6.200	**199 180 059**	6.200
90	80	3	10	7000	**199 180 050**	7.200	**199 180 060**	7.200
110	100	4	10	11000	**199 180 051**	11.200	**199 180 061**	11.200

d (mm)	Actuator	B3 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	EA25	25	50	122	M6	227	27	12	93	33	28	180	97	83	67
20	EA25	25	50	122	M6	227	27	12	95	33	28	180	97	83	68
25	EA25	25	58	122	M6	231	30	12	109	33	33	180	97	83	77
32	EA25	25	68	122	M6	237	36	12	119	33	36	180	97	83	83
40	EA25	45	84	122	M8	243	44	15	135	33	43	180	97	83	99
50	EA25	45	97	122	M8	249	51	15	147	33	45	180	97	83	105
63	EA25	45	124	122	M8	264	64	15	168	33	51	180	97	83	117
75	EA45	70	166	122	M8	313	85	15	233	33	68	180	98	82	167
90	EA45	70	200	122	M8	325	105	15	254	33	71	180	98	82	180
110	EA120	120	238	122	M12	363	123	22	301	33	82	180	98	82	215



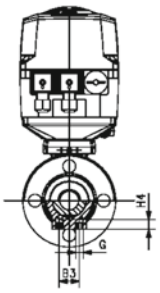
PROGEF Standard Ball valve type 180
100-230V
With manual emergency override
With backing flanges PP-St ISO with PP-H

Model:

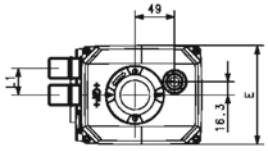
- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

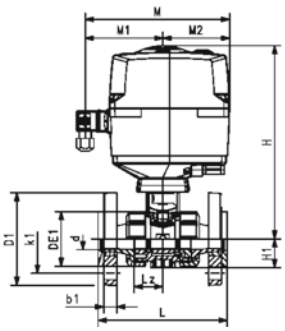
- Other valve and actuator configurations available
- Optional accessories: Monitoring board, Positioner, Profibus DP board, Modbus TCP EA 25-250 Ethernet Interface Card



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
75	65	2 ½	10	5000	**199 180 129**	10.500	**199 180 139**	10.500
90	80	3	10	7000	**199 180 130**	11.520	**199 180 140**	11.880
110	100	4	10	11000	**199 180 131**	18.400	**199 180 141**	18.400



d (mm)	Actuator	b1 (mm)	B3 (mm)	D1 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	k1 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)
75	EA45	18	70	166	166	122	M8	313	85	15	145	290	33	68	180
90	EA45	20	70	200	200	122	M8	325	105	15	160	310	33	71	180
110	EA120	20	120	238	238	122	M12	363	123	22	180	350	33	82	180



d (mm)	M1 (mm)	M2 (mm)
75	98	82
90	98	82
110	98	82



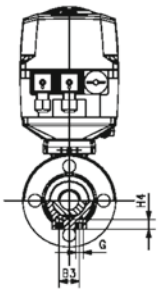
PROGEF Standard Ball valve type 180
24V
With manual emergency override
With backing flanges PP-St ISO with PP-H

Model:

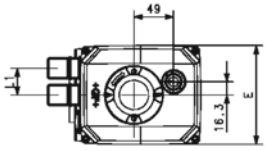
- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

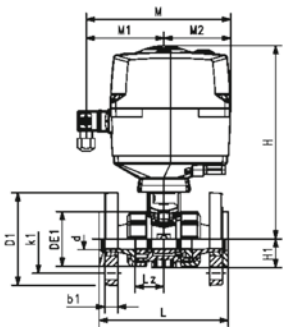
- Other valve and actuator configurations available
- Optional accessories: Monitoring board, Positioner, Profibus DP board, Modbus TCP EA 25-250 Ethernet Interface Card



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
75	65	2 ½	10	5000	**199 180 149**	10.500	**199 180 159**	10.500
90	80	3	10	7000	**199 180 150**	11.880	**199 180 160**	11.880
110	100	4	10	11000	**199 180 151**	18.400	**199 180 161**	18.400



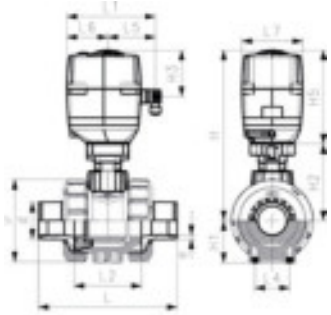
d (mm)	Actuator	b1 (mm)	B3 (mm)	D1 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	k1 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)
75	EA45	18	70	166	166	122	M8	313	85	15	145	290	33	68	180
90	EA45	20	70	200	200	122	M8	325	105	15	160	310	33	71	180
110	EA120	20	120	238	238	122	M12	363	123	22	180	350	33	82	180



d (mm)	M1 (mm)	M2 (mm)
75	98	82
90	98	82
110	98	82







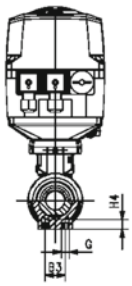
PROGEF Standard Ball valve type 180
100-230V
With manual emergency override
With butt fusion spigots PP-H SDR11 ISO

Model:

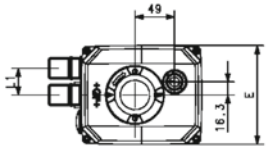
- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

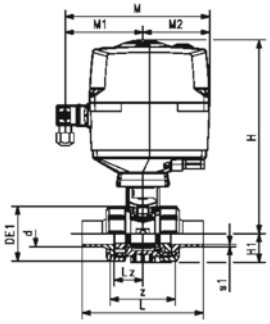
Option:

- Other valve and actuator configurations available
- Optional accessories: Monitoring board, Positioner, Profibus DP board, Modbus TCP EA 25-250 Ethernet Interface Card



d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	SDR	EPDM Code	Weight (kg)
20	15	10	185	11	**199 180 323**	2.100
25	20	10	350	11	**199 180 324**	2.200
32	25	10	700	11	**199 180 325**	2.300
40	32	10	1000	11	**199 180 326**	2.600
50	40	10	1600	11	**199 180 327**	2.952
63	50	10	3100	11	**199 180 328**	3.800
75	65	10	5000	11	**199 180 329**	6.200
90	80	10	7000	11	**199 180 330**	7.200
110	100	10	11000	11	**199 180 331**	11.200

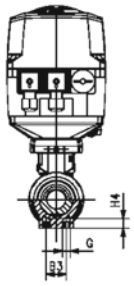


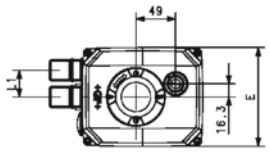


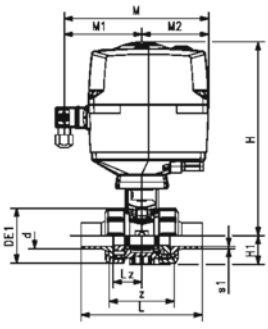
d (mm)	Actuator	B3 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	s1 (mm)
20	EA25	25	50	122	M6	227	27	12	130	33	28	180	97	83	1.9
25	EA25	25	58	122	M6	231	30	12	143	33	33	180	97	83	2.3
32	EA25	25	68	122	M6	237	36	12	150	33	36	180	97	83	3.0
40	EA25	45	84	122	M8	243	44	15	171	33	43	180	97	83	3.7
50	EA25	45	97	122	M8	249	51	15	191	33	45	180	97	83	4.6
63	EA25	45	124	122	M8	264	64	15	220	33	51	180	97	83	5.8
75	EA45	70	166	122	M8	313	85	15	266	33	68	180	98	82	8.2
90	EA45	70	200	122	M8	325	105	15	264	33	71	180	98	82	10.0
110	EA120	120	238	122	M12	363	123	22	301	33	82	180	98	82	12.0











PROGEF Standard Ball valve type 180
24V
With manual emergency override
With butt fusion spigots PP-H SDR11 ISO

Model:

- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

- Other valve and actuator configurations available
- Optional accessories: Monitoring board, Positioner, Profibus DP board, Modbus TCP EA 25-250 Ethernet Interface Card

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	SDR	EPDM Code	FKM Code	Weight (kg)
20	15	½	10	185	11	**199 180 363**	**199 180 373**	2.100
25	20	¾	10	350	11	**199 180 364**	**199 180 374**	2.200
32	25	1	10	700	11	**199 180 365**	**199 180 375**	2.300
40	32	1 ¼	10	1000	11	**199 180 366**	**199 180 376**	2.600
50	40	1 ½	10	1600	11	**199 180 367**	**199 180 377**	3.000
63	50	2	10	3100	11	**199 180 368**	**199 180 378**	3.800
75	65	2 ½	10	5000	11	**199 180 369**	**199 180 379**	6.200
90	80	3	10	7000	11	**199 180 370**	**199 180 380**	7.200
110	100	4	10	11000	11	**199 180 371**	**199 180 381**	11.200

d (mm)	Actuator	B3 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	s1 (mm)
20	EA25	25	50	122	M6	227	27	12	130	33	28	180	97	83	1.9
25	EA25	25	58	122	M6	231	30	12	143	33	33	180	97	83	2.3
32	EA25	25	68	122	M6	237	36	12	150	33	36	180	97	83	3.0
40	EA25	45	84	122	M8	243	44	15	171	33	43	180	97	83	3.7
50	EA25	45	97	122	M8	249	51	15	191	33	45	180	97	83	4.6
63	EA25	45	124	122	M8	264	64	15	220	33	51	180	97	83	5.8
75	EA45	70	166	122	M8	313	85	15	266	33	68	180	98	82	8.2
90	EA45	70	200	122	M8	325	105	15	264	33	71	180	98	82	10.0
110	EA120	120	238	122	M12	363	123	22	301	33	82	180	98	82	12.0

Ball valves pneumatic type 546 Pro P



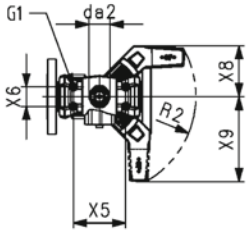
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
DA (Double Acting)
With fixed flanges PP-H ser. ISO
With manual override

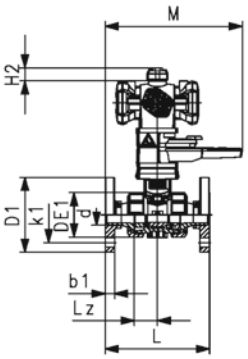
Model:

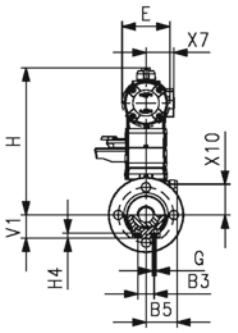
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	½	10	185	**199 251 283**	1	1.700	**199 251 293**	1	1.700
25	20	¾	10	350	**199 251 284**	1	1.900	**199 251 294**	1	1.900
32	25	1	10	700	**199 251 285**	1	2.100	**199 251 295**	1	2.100
40	32	1 ¼	10	1000	**199 251 286**	1	3.400	**199 251 296**	1	3.400
50	40	1 ½	10	1600	**199 251 287**	1	3.900	**199 251 297**	1	3.900
63	50	2	10	3100	**199 251 288**	1	4.900	**199 251 298**	1	4.900

d (mm)	Actuator	b1 (mm)	B3 (mm)	B5 (mm)	da2 (mm)	D1 (mm)	E (mm)	G (inch)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	k1 (mm)	L (mm)	Lz (mm)
20	PPA08	12	25	16.2	33	95	74	M6	M5	215	20	12	56	130	28
25	PPA08	12	25	17.5	33	105	74	M6	M5	219	20	12	75	150	33
32	PPA08	14	25	17.5	33	115	74	M6	M5	238	20	12	85	160	36
40	PPA15	16	45	23.3	33	140	94	M8	M5	244	20	15	100	180	43
50	PPA15	16	45	23.3	33	150	94	M8	M5	273	20	15	110	200	45
63	PPA40	18	45	24.3	33	165	120	M8	M5	288	20	15	125	230	51

d (mm)	M (mm)	R2	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X8 (mm)	X9 (mm)	X10 (mm)
20	128	R150	27	80	30	43	78	132	38.00
25	128	R150	30	80	30	43	78	132	41.90
32	128	R150	36	80	30	43	78	132	47.00
40	159	R150	44	80	30	51	78	132	53.50
50	159	R150	51	80	30	51	78	132	62.75
63	184	R150	64	80	30	62	78	132	77.00



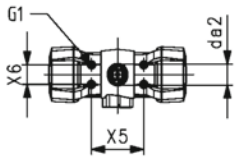
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FO (Fail safe to open)
With butt fusion spigots PP-H ISO IR-PLUS
Without manual override
4.2 bar control pressure

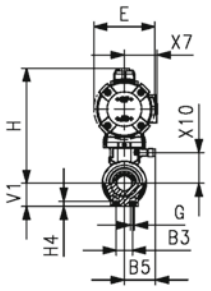
Model:

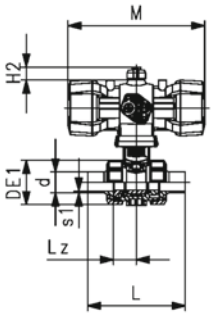
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	½	10	185	**199 251 972**	1	1.030	**199 251 982**	1	1.330
25	20	¾	10	350	**199 251 973**	1	1.110	**199 251 983**	1	1.120
32	25	1	10	700	**199 251 974**	1	1.190	**199 251 984**	1	1.180
40	32	1 ¼	10	1000	**199 251 975**	1	2.100	**199 251 985**	1	2.100
50	40	1 ½	10	1600	**199 251 976**	1	2.250	**199 251 986**	1	2.250
63	50	2	10	3100	**199 251 977**	1	2.860	**199 251 987**	1	2.860

d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	s1 (mm)
20	PPA15	25	16.2	33	50	94	M6	M5	168	20	12	130	28	211	1.9
25	PPA15	25	17.5	33	58	94	M6	M5	172	20	12	143	33	211	2.3
32	PPA15	25	17.5	33	68	94	M6	M5	178	20	12	150	36	211	3.0
40	PPA40	45	23.3	33	84	120	M8	M5	228	20	15	171	43	246	3.7
50	PPA40	45	23.3	33	97	120	M8	M5	207	20	15	191	45	246	4.6
63	PPA40	45	24.3	33	124	120	M8	M5	213	20	15	220	51	246	5.8

d (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)
20	27	80	30	51	38.0
25	30	80	30	51	41.9
32	36	80	30	51	47.0
40	44	80	30	62	53.5
50	51	80	30	62	62.8
63	64	80	30	62	77.0



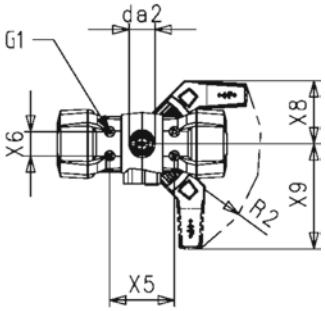
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FO (Fail safe to open)
With manual override
With butt fusion spigots IR-Plus SDR11 metric

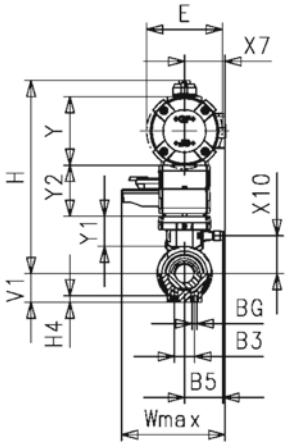
Model:

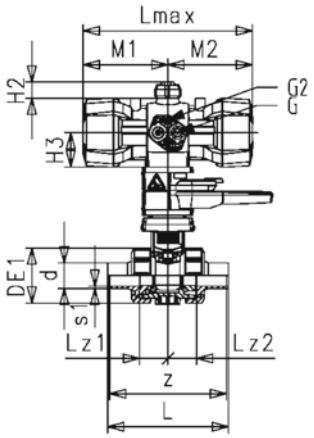
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with type 230 – 235 and 546 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve







d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	10	185	**199 251 643**	1	1.500	**199 251 653**	1	1.500
25	20	10	350	**199 251 644**	1	1.600	**199 251 654**	1	1.600
32	25	10	700	**199 251 645**	1	1.700	**199 251 655**	1	1.700
40	32	10	1000	**199 251 646**	1	2.800	**199 251 656**	1	2.800
50	40	10	1600	**199 251 647**	1	3.100	**199 251 657**	1	3.100
63	50	10	3100	**199 251 648**	1	4.000	**199 251 658**	1	4.000

d (mm)	Actuator	DE1 (mm)	s1 (mm)	M1 (mm)	M2 (mm)	Lmax (mm)	H2 (mm)	G2 (mm)	G (mm)	H3 (mm)	Lz1 (mm)	Lz2 (mm)	Q1 (mm)	Q2 (mm)
20	PPA08	50	2.3	80	80	159	20	M5	G 1/4	41	28	28	17	17
25	PPA08	58	2.9	80	80	159	20	M5	G 1/4	41	33	33	16	16
32	PPA15	68	3.7	106	106	211	20	M5	G 1/4	45	36	36	16	16
40	PPA15	84	4.6	106	106	211	20	M5	G 1/4	45	43	43	19	19
50	PPA40	97	5.8	123	123	246	20	M5	G 1/4	56	45	45	22	22
63	PPA40	124	6.8	123	123	246	20	M5	G 1/4	56	51	51	26	26

d (mm)	z (mm)	E (mm)	X7 (mm)	Y1 (mm)	Y2 (mm)	Y (mm)	H (mm)	X10 (mm)	B3 (mm)	BG	Wmax (mm)	V1 (mm)	H4 (mm)	G1 (mm)	da2 (mm)
20	96	74	43	35	60	75	215	35	25	M6	210	27	12	M5	33
25	11	74	43	35	60	75	219	35	25	M6	210	27	12	M5	33
32	118	94	51	35	60	88	238	35	25	M6	210	30	12	M5	33
40	133	9	51	33	60	88	244	33	45	M8	210	36	15	M5	33
50	147	120	62	33	60	111	273	33	45	M8	210	44	15	M5	33
63	169	120	62	36	60	111	288	36	45	M8	210	51	15	M5	33

d (mm)	X6 (mm)	X5 (mm)	X8 (mm)	X9 (mm)	R2
20	30	80	78	132	R150
25	30	80	78	132	R150
32	30	80	78	132	R150
40	30	80	78	132	R150
50	30	80	78	132	R150
63	30	80	78	132	R150



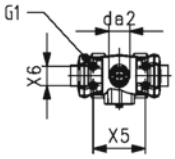
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
DA (Double Acting)
With butt fusion spigots PP-H SDR11 ISO
Without manual override
5.6 bar control pressure

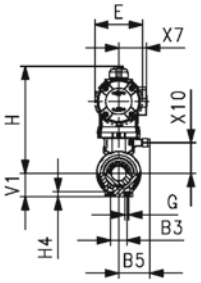
Model:

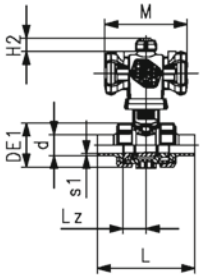
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	½	10	185	**199 251 873**	1	1.200	**199 251 883**	1	1.200
25	20	¾	10	350	**199 251 874**	1	1.300	**199 251 884**	1	1.300
32	25	1	10	700	**199 251 875**	1	1.400	**199 251 885**	1	1.400
40	32	1 ¼	10	1000	**199 251 876**	1	2.500	**199 251 886**	1	2.500
50	40	1 ½	10	1600	**199 251 877**	1	2.800	**199 251 887**	1	2.800
63	50	2	10	3100	**199 251 878**	1	3.700	**199 251 888**	1	3.700
75	65	2 ½	10	5000	**199 251 879**	1	5.500	**199 251 889**	1	5.500
90	80	3	10	7000	**199 251 880**	1	7.800	**199 251 890**	1	7.800
110	100	4	10	11000	**199 251 881**	1	10.900	**199 251 891**	1	10.900

d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	s1 (mm)
20	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	130	28	128	1.9
25	PPA08	25	17.5	33	58	74	M6	M5	159	20	12	143	33	128	2.3
32	PPA08	25	17.5	33	68	94	M6	M5	178	20	12	150	36	128	3.0
40	PPA15	45	23.3	33	84	94	M8	M5	184	20	15	171	43	159	3.7
50	PPA15	45	23.3	33	97	120	M8	M5	213	20	15	191	45	159	4.6
63	PPA40	45	24.3	33	124	120	M8	M5	228	20	15	220	51	184	5.8
75	PPA40	70	28.5	33	166	142	M8	M5	277	20	15	266	68	184	8.2
90	PPA40	70	28.5	33	200	142	M8	M5	289	20	15	264	71	184	10.0
110	PPA80	120	28.5	33	238	142	M12	M5	324	20	22	301	82	261	12.0

d (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)
20	27	80	30	43	38.0
25	30	80	30	43	41.9
32	36	80	30	51	47.0
40	44	80	30	51	53.5
50	51	80	30	62	62.8
63	64	80	30	62	77.0
75	85	80	30	74	119.0
90	105	80	30	74	131.0
110	123	80	30	74	145.0



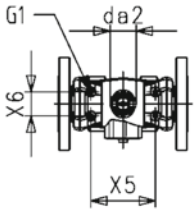
PROGEF Standard PP-H Ball vlave type 546 Pro with PPA
DA (Double acting)
With fixed flanges PP-H serrated metric

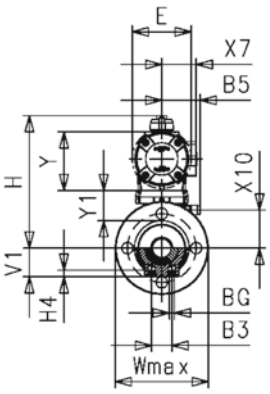
Model:

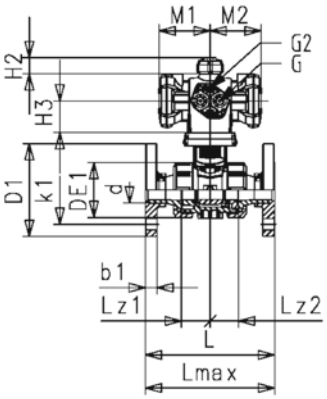
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with type 230 – 235 and 546 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	½	15	10	185	**199 251 463**	1	1.400	**199 251 473**	1	1.400
25	¾	20	10	350	**199 251 464**	1	1.600	**199 251 474**	1	1.600
32	1	25	10	700	**199 251 465**	1	1.800	**199 251 475**	1	1.160
40	1 ¼	32	10	1000	**199 251 466**	1	3.100	**199 251 476**	1	3.100
50	1 ½	40	10	1600	**199 251 467**	1	3.600	**199 251 477**	1	3.600
63	2	50	10	3100	**199 251 468**	1	4.700	**199 251 478**	1	2.869

d (mm)	Actuator	DE1 (mm)	M1 (mm)	M2 (mm)	Lmax (mm)	H2 (mm)	G2 (mm)	G (mm)	H3 (mm)	Lz1 (mm)	Lz2 (mm)	b1 (mm)	k1 (mm)	D1 (mm)
20	PPA08	50	64	64	128	20	M5	G 1/4	41	48	48	12	33	95
25	PPA08	58	64	64	128	20	M5	G 1/4	41	56	56	13	38	103
32	PPA08	68	64	64	128	20	M5	G 1/4	41	59	59	14	43	115
40	PPA15	84	80	80	159	20	M5	G 1/4	45	67	67	15	50	138
50	PPA15	97	80	80	159	20	M5	G 1/4	45	74	74	16	55	148
63	PPA40	124	92	92	184	20	M5	G 1/4	56	85	85	18	63	163

d (mm)	L (mm)	z (mm)	E (mm)	X7 (mm)	Y1 (mm)	Y (mm)	H (mm)	X10 (mm)	B3 (mm)	BG	Wmax (mm)	V1 (mm)	H4 (mm)	G1 (mm)	da2 (mm)
20	130	96	74	43	35	75	115	35	25	M6	95	27	12	M5	33
25	150	111	74	43	35	75	115	35	25	M6	103	30	12	M5	33
32	160	118	74	43	35	75	115	35	25	M6	115	36	12	M5	33
40	180	133	94	51	33	88	128	33	45	M8	138	44	15	M5	33
50	200	147	94	51	33	88	128	33	45	M8	148	51	15	M5	33
63	230	169	120	62	36	111	151	36	45	M8	163	64	15	M5	33

d (mm)	X6 (mm)	X5 (mm)
20	30	80
25	30	80
32	30	80
40	30	80
50	30	80
63	30	80



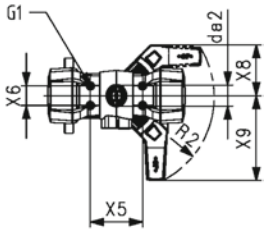
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FO (Fail Safe to Open)
With fixed flanges PP-H ser. ISO
With manual override

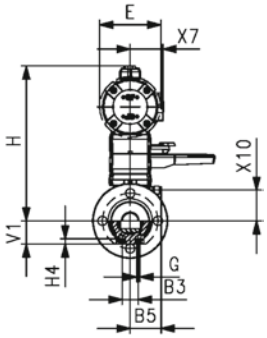
Model:

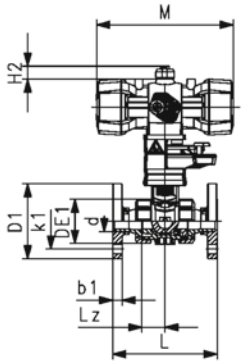
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	½	10	185	**199 251 263**	1	1.700	**199 251 273**	1	1.700
25	20	¾	10	350	**199 251 264**	1	1.900	**199 251 274**	1	1.900
32	25	1	10	700	**199 251 265**	1	2.100	**199 251 275**	1	2.100
40	32	1 ¼	10	1000	**199 251 266**	1	3.400	**199 251 276**	1	3.400
50	40	1 ½	10	1600	**199 251 267**	1	3.900	**199 251 277**	1	3.900
63	50	2	10	3100	**199 251 268**	1	4.900	**199 251 278**	1	4.900

d (mm)	Actuator	b1 (mm)	B3 (mm)	B5 (mm)	D1 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	k1 (mm)	L (mm)
20	PPA08	12	25	16.2	95	33	50	74	M6	M5	215	20	12	56	130
25	PPA08	12	25	17.5	105	33	58	74	M6	M5	219	20	12	75	150
32	PPA15	14	25	17.5	115	33	68	94	M6	M5	238	20	12	85	160
40	PPA15	16	45	23.3	140	33	84	94	M8	M5	244	20	15	100	180
50	PPA40	16	45	23.3	150	33	97	120	M8	M5	273	20	15	110	200
63	PPA40	18	45	24.3	165	33	124	120	M8	M5	288	20	15	125	230

d (mm)	Lz (mm)	M (mm)	R2	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X8 (mm)	X9 (mm)	X10 (mm)
20	28	159	R150	27	80	30	43	78	132	38.00
25	33	159	R150	30	80	30	43	78	132	41.90
32	36	211	R150	36	80	30	51	78	132	47.00
40	43	211	R150	44	80	30	51	78	132	53.50
50	45	246	R150	51	80	30	62	78	132	62.75
63	51	246	R150	64	80	30	62	78	132	77.00



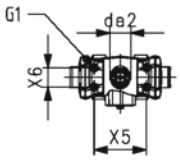
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
DA (Double Acting)
With socket fusion spigots PP-H ISO
Without manual override
5.6 bar control pressure

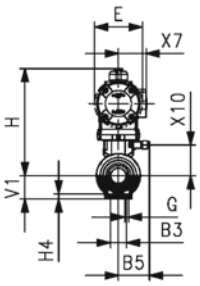
Model:

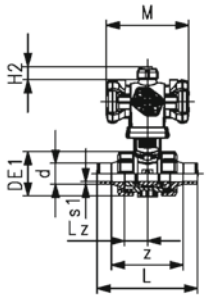
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible







d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	10	70	**199 251 222**	1	1.200	**199 251 232**	1	1.200
20	15	10	185	**199 251 223**	1	1.200	**199 251 233**	1	1.200
25	20	10	350	**199 251 224**	1	1.300	**199 251 234**	1	1.300
32	25	10	700	**199 251 225**	1	1.400	**199 251 235**	1	0.929
40	32	10	1000	**199 251 226**	1	2.500	**199 251 236**	1	2.500
50	40	10	1600	**199 251 227**	1	2.800	**199 251 237**	1	2.800
63	50	10	3100	**199 251 228**	1	3.700	**199 251 238**	1	3.700
75	65	10	5000	**199 251 229**	1	5.500	**199 251 239**	1	5.500
90	80	10	7000	**199 251 230**	1	7.800	**199 251 240**	1	7.800
110	100	10	11000	**199 251 231**	1	10.900	**199 251 241**	1	10.900

d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	s1 (mm)
16	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	110	28	128	3.0
20	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	120	28	128	3.0
25	PPA08	25	17.5	33	58	74	M6	M5	159	20	12	139	33	128	3.0
32	PPA08	25	17.5	33	68	94	M6	M5	178	20	12	150	36	128	4.0
40	PPA15	45	23.3	33	84	94	M8	M5	184	20	15	170	43	159	4.5
50	PPA15	45	23.3	33	97	120	M8	M5	213	20	15	190	45	159	5.5
63	PPA40	45	24.3	33	124	120	M8	M5	228	20	15	220	51	184	7.0
75	PPA40	70	28.5	33	166	142	M8	M5	277	20	15	280	68	184	8.5
90	PPA40	70	28.5	33	200	142	M8	M5	289	20	15	196	71	184	10.0
110	PPA80	120	28.5	33	238	142	M12	M5	324	20	22	336	82	261	12.0

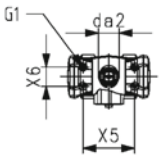
d (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)	z (mm)
16	27	80	30	43	38.0	84
20	27	80	30	43	38.0	92
25	30	80	30	43	41.9	107
32	36	80	30	51	47.0	114
40	44	80	30	51	53.5	130
50	51	80	30	62	62.8	144
63	64	80	30	62	77.0	166
75	85	80	30	74	119.0	190
90	105	80	30	74	131.0	92
110	123	80	30	74	145.0	208



PROGEF Standard PP-H Ball valve type 546 Pro with PPA
DA (Double Acting)
With fusion sockets PP-H ISO
Without manual override
5.6 bar control pressure

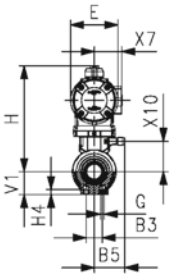
Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

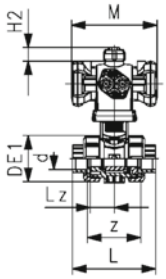


Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	10	70	**199 251 202**	1	1.200	**199 251 212**	1	1.200
20	15	½	10	185	**199 251 203**	1	0.766	**199 251 213**	1	0.774
25	20	¾	10	350	**199 251 204**	1	0.844	**199 251 214**	1	1.300
32	25	1	10	700	**199 251 205**	1	0.920	**199 251 215**	1	0.919
40	32	1 ¼	10	1000	**199 251 206**	1	2.500	**199 251 216**	1	2.500
50	40	1 ½	10	1600	**199 251 207**	1	1.691	**199 251 217**	1	1.701
63	50	2	10	3100	**199 251 208**	1	3.700	**199 251 218**	1	3.700
75	65	2 ½	10	5000	**199 251 209**	1	5.400	**199 251 219**	1	5.400
90	80	3	10	7000	**199 251 210**	1	7.700	**199 251 220**	1	7.700
110	100	4	10	11000	**199 251 211**	1	10.800	**199 251 221**	1	10.800



d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	V1 (mm)
16	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	93	28	128	27
20	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	95	28	128	27
25	PPA08	25	17.5	33	58	74	M6	M5	159	20	12	109	33	128	30
32	PPA08	25	17.5	33	68	94	M6	M5	178	20	12	119	36	128	36
40	PPA15	45	23.3	33	84	94	M8	M5	184	20	15	135	43	159	44
50	PPA15	45	23.3	33	97	120	M8	M5	213	20	15	147	45	159	51
63	PPA40	45	24.3	33	124	120	M8	M5	228	20	15	168	51	184	64
75	PPA40	70	28.5	33	166	142	M8	M5	277	20	15	233	38	184	85
90	PPA40	70	28.5	33	200	142	M8	M5	289	20	15	254	71	184	105
110	PPA80	120	28.5	33	238	142	M12	M5	324	20	22	301	82	261	123

d (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)	z (mm)
16	80	30	43	38.0	67
20	80	30	43	38.0	66
25	80	30	43	41.9	77
32	80	30	51	47.0	83
40	80	30	51	53.5	99
50	80	30	62	62.8	105
63	80	30	62	77.0	117
75	80	30	74	119.0	167
90	80	30	74	131.0	180
110	80	30	74	145.0	215



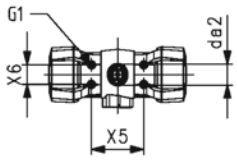
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FO (Fail safe to open)
With butt fusion spigots PP-H SDR11 ISO
Without manual override
5.6 bar control pressure

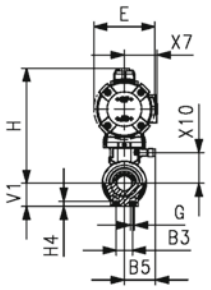
Model:

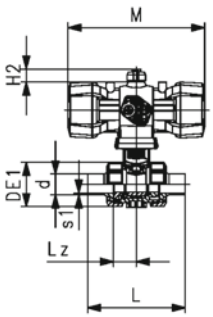
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve possible







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	½	10	185	**199 251 853**	1	1.200	**199 251 863**	1	1.200
25	20	¾	10	350	**199 251 854**	1	1.300	**199 251 864**	1	1.300
32	25	1	10	700	**199 251 855**	1	1.400	**199 251 865**	1	1.400
40	32	1 ¼	10	1000	**199 251 856**	1	2.500	**199 251 866**	1	2.032
50	40	1 ½	10	1600	**199 251 857**	1	2.800	**199 251 867**	1	2.800
63	50	2	10	3100	**199 251 858**	1	2.774	**199 251 868**	1	2.791
75	65	2 ½	10	5000	**199 251 859**	1	6.600	**199 251 869**	1	6.600
90	80	3	10	7000	**199 251 860**	1	8.400	**199 251 870**	1	8.400
110	100	4	10	11000	**199 251 861**	1	12.600	**199 251 871**	1	12.600

d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	M (mm)	Lz (mm)	s1 (mm)
20	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	130	159	28	1.9
25	PPA08	25	17.5	33	58	74	M6	M5	159	20	12	143	159	33	2.3
32	PPA15	25	17.5	33	68	94	M6	M5	178	20	12	150	211	36	3.0
40	PPA15	45	23.3	33	84	94	M8	M5	184	20	15	171	211	43	3.7
50	PPA40	45	23.3	33	97	120	M8	M5	213	20	15	191	246	45	4.6
63	PPA40	45	24.3	33	124	120	M8	M5	228	20	15	220	246	51	5.8
75	PPA80	70	28.5	33	166	142	M8	M5	277	20	15	266	343	68	8.2
90	PPA80	70	28.5	33	200	142	M8	M5	289	20	15	264	343	71	10.0
110	PPA80	120	28.5	33	238	142	M12	M5	324	20	22	301	343	82	12.0

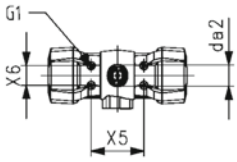
d (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)
20	27	80	30	43	38.0
25	30	80	30	43	41.9
32	36	80	30	51	47.0
40	44	80	30	51	53.5
50	51	80	30	62	62.8
63	64	80	30	62	77.0
75	85	80	30	74	119.0
90	105	80	30	74	131.0
110	123	80	30	74	145.0



PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FC (Fail safe to close)
With fusion sockets PP-H ISO
Without manual override
5.6 bar control pressure

Model:

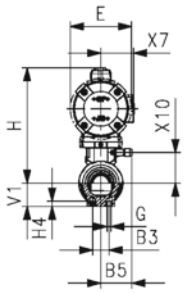
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

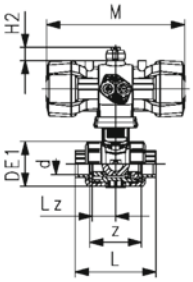


Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible

* PPA04 FC/FO allows the usage of DN10/15 (1/2") ball valves with water as medium and operated in room temperature conditions (~20°C/68°F) only



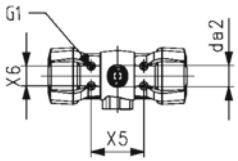


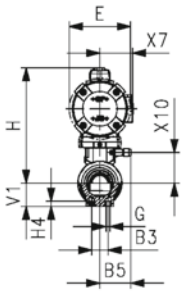
	d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
*	16	10	⅜	10	70	**199 255 160**	1	1.200
	16	10	⅜	10	70	**199 251 122**	1	1.200
*	20	15	½	10	185	**199 255 161**	1	1.002
	20	15	½	10	185	**199 251 123**	1	1.002
	25	20	¾	10	350	**199 251 124**	1	1.072
	32	25	1	10	700	**199 251 125**	1	1.149
	40	32	1 ¼	10	1000	**199 251 126**	1	2.500
	50	40	1 ½	10	1600	**199 251 127**	1	2.185
	63	50	2	10	3100	**199 251 128**	1	2.719
	75	65	2 ½	10	5000	**199 251 129**	1	6.600
	90	80	3	10	7000	**199 251 130**	1	8.400
	110	100	4	10	11000	**199 251 131**	1	12.600

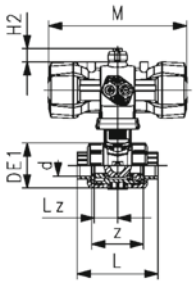
	d (mm)	FKM Code	Weight (kg)	SP
*	16	**199 255 170**	1.200	1
	16	**199 251 132**	1.200	1
*	20	**199 255 171**	0.996	1
	20	**199 251 133**	0.996	1
	25	**199 251 134**	1.300	1
	32	**199 251 135**	1.129	1
	40	**199 251 136**	2.500	1
	50	**199 251 137**	2.800	1
	63	**199 251 138**	3.700	1
	75	**199 251 139**	5.142	1
	90	**199 251 140**	8.057	1
	110	**199 251 141**	12.600	1

	d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)
*	16	PPA04	25	16.2	33	50	63	M6	M5	155	20	12	93	28	115
	16	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	93	28	159
*	20	PPA04	25	16.2	33	50	63	M6	M5	155	20	12	95	28	115
	20	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	95	28	159
	25	PPA08	25	17.5	33	58	74	M6	M5	159	20	12	109	33	159
	32	PPA15	25	17.5	33	68	94	M6	M5	178	20	12	119	36	211
	40	PPA15	45	23.3	33	84	94	M8	M5	184	20	15	135	43	211
	50	PPA40	45	23.3	33	97	120	M8	M5	213	20	15	147	45	246
	63	PPA40	45	24.3	33	124	120	M8	M5	288	20	15	168	51	246
	75	PPA80	70	28.5	33	166	142	M8	M5	277	20	15	233	68	343
	90	PPA80	70	28.5	33	200	142	M8	M5	289	20	15	254	71	343
	110	PPA80	120	28.5	33	238	142	M12	M5	324	20	22	301	82	343

table continued on the next page







	d (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)	z (mm)
*	16	27	80	30	34	38.0	67
	16	27	80	30	43	38.0	67
*	20	27	80	30	34	38.0	66
	20	27	80	30	43	38.0	66
	25	30	80	30	43	41.9	77
	32	36	80	30	51	47.0	83
	40	44	80	30	51	53.5	99
	50	51	80	30	62	62.8	105
	63	64	80	30	62	77.0	117
	75	85	80	30	74	119.0	167
	90	105	80	30	74	131.0	180
	110	123	80	30	74	145.0	215



PROGEF Standard PP-H Ball valve type 546 Pro with PPA
DA (Double acting)
With manual override
With butt fusion spigots IR-Plus SDR11 metric

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with type 230 – 235 and 546 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	Actuator	Lmax (mm)	M1 (mm)	M2 (mm)
20	15	10	**199 251 663**	**199 251 673**	PPA08	128	64	64
25	20	10	**199 251 664**	**199 251 674**	PPA08	128	64	64
32	25	10	**199 251 665**	**199 251 675**	PPA08	128	64	64
40	32	10	**199 251 666**	**199 251 676**	PPA15	165	83	83
50	40	10	**199 251 667**	**199 251 677**	PPA15	165	83	83
63	50	10	**199 251 668**	**199 251 678**	PPA40	184	91	91



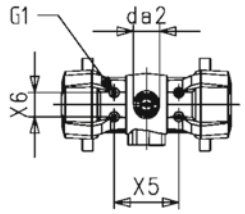
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FO (Fail safe to open)
With fixed flanges PP-H serrated metric

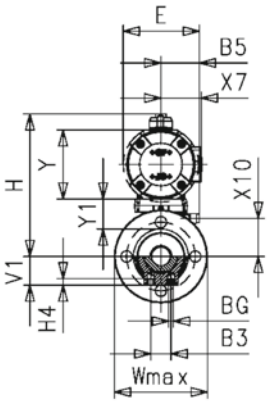
Model:

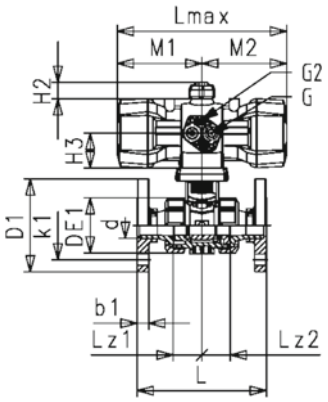
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with type 230 – 235 and 546 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	½	15	10	185	**199 251 443**	1	1.400	**199 251 453**	1	1.400
25	¾	20	10	350	**199 251 444**	1	1.600	**199 251 454**	1	1.600
32	1	25	10	700	**199 251 445**	1	1.800	**199 251 455**	1	1.800
40	1 ¼	32	10	1000	**199 251 446**	1	3.100	**199 251 456**	1	3.100
50	1 ½	40	10	1600	**199 251 447**	1	3.600	**199 251 457**	1	3.600
63	2	50	10	3100	**199 251 448**	1	4.700	**199 251 458**	1	4.700

d (mm)	Actuator	DE1 (mm)	M1 (mm)	M2 (mm)	Lmax (mm)	H2 (mm)	G2 (mm)	G (mm)	H3 (mm)	Lz1 (mm)	Lz2 (mm)	b1 (mm)	k1 (mm)	D1 (mm)
20	PPA08	50	80	80	159	20	M5	G 1/4	41	48	48	12	33	95
25	PPA08	58	80	80	159	20	M5	G 1/4	41	56	56	13	38	103
32	PPA15	68	106	106	211	20	M5	G 1/4	45	59	59	14	43	115
40	PPA15	84	106	106	211	20	M5	G 1/4	45	67	67	15	50	138
50	PPA40	97	123	123	246	20	M5	G 1/4	56	74	74	16	55	148
63	PPA40	124	123	123	246	20	M5	G 1/4	56	85	85	18	63	163

d (mm)	L (mm)	z (mm)	E (mm)	X7 (mm)	Y1 (mm)	Y (mm)	H (mm)	X10 (mm)	B3 (mm)	BG	Wmax (mm)	V1 (mm)	H4 (mm)	G1 (mm)	da2 (mm)
20	130	96	74	43	35	75	115	35	25	M6	95	27	12	M5	33
25	150	111	74	43	35	75	115	35	25	M6	103	30	12	M5	33
32	160	118	94	51	35	88	128	35	25	M6	115	36	12	M5	33
40	180	133	94	51	33	88	128	33	45	M8	138	44	15	M5	33
50	200	147	120	62	33	111	151	33	45	M8	148	51	15	M5	33
63	230	169	120	62	36	111	151	36	45	M8	163	64	15	M5	33

d (mm)	X6 (mm)	X5 (mm)
20	30	80
25	30	80
32	30	80
40	30	80
50	30	80
63	30	80



PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FC (Fail safe to close)
With socket fusion spigots PP-H ISO
Without manual override
5.6 bar control pressure

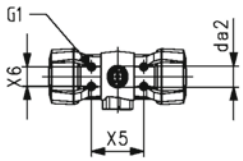
Model:

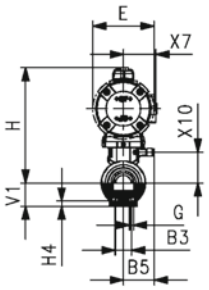
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

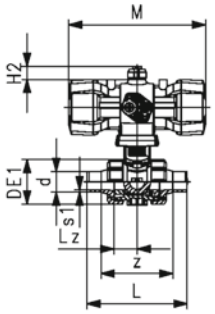
Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible

* PPA04 FC/FO allows the usage of DN10/15 (1/2") ball valves with water as medium and operated in room temperature conditions (~20°C/68°F) only







	d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
*	16	10	10	70	**199 255 180**	1	1.200	**199 255 190**	1	1.200
	16	10	10	70	**199 251 142**	1	1.200	**199 251 152**	1	1.200
*	20	15	10	185	**199 255 181**	1	1.001	**199 255 191**	1	1.004
	20	15	10	185	**199 251 143**	1	1.001	**199 251 153**	1	1.004
	25	20	10	350	**199 251 144**	1	1.300	**199 251 154**	1	1.300
	32	25	10	700	**199 251 145**	1	1.156	**199 251 155**	1	1.400
	40	32	10	1000	**199 251 146**	1	2.500	**199 251 156**	1	2.035
	50	40	10	1600	**199 251 147**	1	2.800	**199 251 157**	1	2.228
	63	50	10	3100	**199 251 148**	1	2.784	**199 251 158**	1	3.700
	75	65	10	5000	**199 251 149**	1	6.600	**199 251 159**	1	6.600
	90	80	10	7000	**199 251 150**	1	8.400	**199 251 160**	1	8.400
	110	100	10	11000	**199 251 151**	1	12.600	**199 251 161**	1	12.600

	d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)
*	16	PPA04	25	16.2	33	50	74	M6	M5	155	20	12	110	28	115
	16	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	110	28	159
*	20	PPA04	25	16.2	33	50	74	M6	M5	155	20	12	120	28	115
	20	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	120	28	159
	25	PPA08	25	17.5	33	58	74	M6	M5	159	20	12	139	33	159
	32	PPA15	25	17.5	33	68	94	M6	M5	178	20	12	150	36	211
	40	PPA15	45	23.3	33	84	94	M8	M5	184	20	15	170	43	211
	50	PPA40	45	23.3	33	97	120	M8	M5	213	20	15	190	45	246
	63	PPA40	45	24.3	33	124	120	M8	M5	228	20	15	220	51	246
	75	PPA80	70	28.5	33	166	142	M8	M5	277	20	15	280	68	343
	90	PPA80	70	28.5	33	200	142	M8	M5	289	20	15	196	71	343
	110	PPA80	120	28.5	33	238	142	M12	M5	324	20	22	336	82	343

	d (mm)	s1 (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)	z (mm)
*	16	3.0	27	80	30	43	38.0	84
	16	3.0	27	80	30	43	38.0	84
*	20	3.0	27	80	30	43	38.0	92
	20	3.0	27	80	30	43	38.0	92
	25	3.0	30	80	30	43	41.9	107
	32	4.0	36	80	30	51	47.0	114
	40	4.5	44	80	30	51	53.5	130
	50	5.5	51	80	30	62	62.8	144
	63	7.0	64	80	30	62	77.0	166
	75	8.5	85	80	30	74	119.0	190
	90	10.0	105	80	30	74	131.0	92
	110	12.0	123	80	30	74	145.0	208



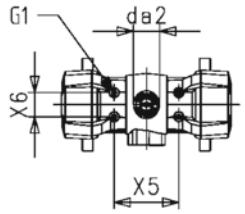
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FC (Fail safe to close)
With fixed flanges PP-H serrated metric

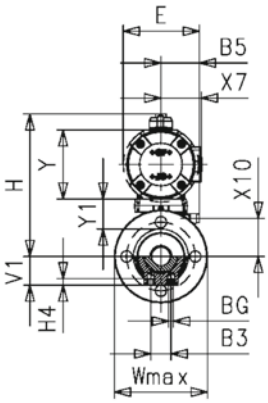
Model:

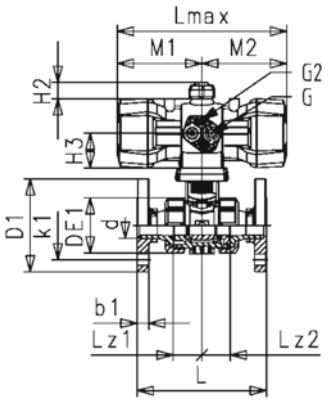
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with type 230 – 235 and 546 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	½	15	10	185	**199 251 423**	1	1.400	**199 251 433**	1	1.400
25	¾	20	10	350	**199 251 424**	1	1.600	**199 251 434**	1	1.600
32	1	25	10	700	**199 251 425**	1	1.800	**199 251 435**	1	1.377
40	1 ¼	32	10	1000	**199 251 426**	1	3.100	**199 251 436**	1	3.100
50	1 ½	40	10	1600	**199 251 427**	1	2.631	**199 251 437**	1	3.600
63	2	50	10	3100	**199 251 428**	1	3.348	**199 251 438**	1	4.700

d (mm)	Actuator	DE1 (mm)	M1 (mm)	M2 (mm)	Lmax (mm)	H2 (mm)	G2 (mm)	G (mm)	H3 (mm)	Lz1 (mm)	Lz2 (mm)	b1 (mm)	k1 (mm)	D1 (mm)
20	PPA08	50	80	80	159	20	M5	G 1/4	41	48	48	12	33	95
25	PPA08	58	80	80	159	20	M5	G 1/4	41	56	56	13	38	103
32	PPA15	68	106	106	211	20	M5	G 1/4	45	59	59	14	43	115
40	PPA15	84	106	106	211	20	M5	G 1/4	45	67	67	15	50	138
50	PPA40	97	123	123	246	20	M5	G 1/4	56	74	74	16	55	148
63	PPA40	124	123	123	246	20	M5	G 1/4	56	85	85	18	63	163

d (mm)	L (mm)	z (mm)	E (mm)	X7 (mm)	Y1 (mm)	Y (mm)	H (mm)	X10 (mm)	B3 (mm)	BG	Wmax (mm)	V1 (mm)	H4 (mm)	G1 (mm)	da2 (mm)
20	130	96	74	43	35	75	115	35	25	M6	210	27	12	M5	33
25	150	111	74	43	35	75	115	35	25	M6	210	30	12	M5	33
32	160	118	94	51	35	88	128	35	25	M6	210	36	12	M5	33
40	180	133	94	51	33	88	128	33	45	M8	210	44	15	M5	33
50	200	147	120	62	33	111	151	33	45	M8	210	51	15	M5	33
63	230	169	120	62	36	111	151	36	45	M8	210	64	15	M5	33

d (mm)	X6 (mm)	X5 (mm)
20	30	80
25	30	80
32	30	80
40	30	80
50	30	80
63	30	80



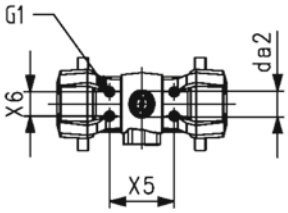
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FC (Fail safe to close)
With backing flanges PP-H ISO
Without manual override
5.6 bar control pressure

Model:

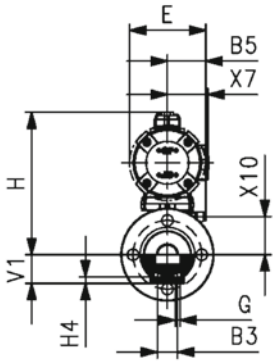
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

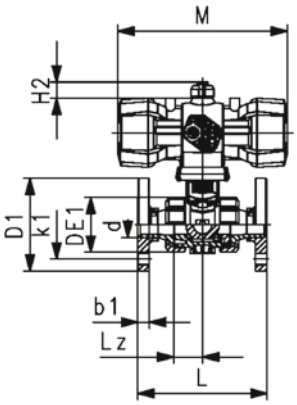
- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
75	65	2 ½	10	5000	**199 251 329**	1	8.160	**199 251 339**	1	5.228
90	80	3	10	7000	**199 251 330**	1	13.600	**199 251 340**	1	13.600
110	100	4	10	11000	**199 251 331**	1	19.800	**199 251 341**	1	19.800



d (mm)	Actuator	b1 (mm)	B3 (mm)	B5 (mm)	da2 (mm)	D1 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	k1 (mm)	L (mm)
75	PA80	18	70	28.5	33	185	166	142	M8	M5	277	20	15	145	290
90	PA80	20	70	28.5	33	200	200	142	M8	M5	289	20	15	160	310
110	PA80	20	120	28.5	33	220	238	142	M12	M5	324	20	22	180	350



d (mm)	Lz (mm)	M (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)
75	68	343	85	80	30	74	119
90	71	343	105	80	30	74	131
110	82	343	123	80	30	74	145



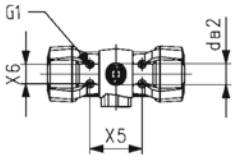
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FO (Fail safe to open)
With fusion sockets PP-H ISO
Without manual override
5.6 bar control pressure

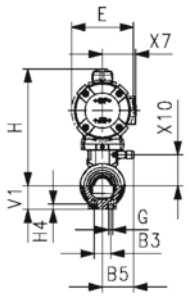
Model:

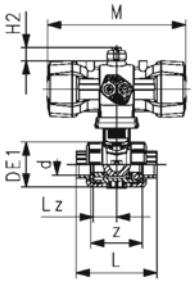
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	10	70	**199 251 162**	1	1.200	**199 251 172**	1	1.200
20	15	½	10	185	**199 251 163**	1	1.200	**199 251 173**	1	1.200
25	20	¾	10	350	**199 251 164**	1	1.300	**199 251 174**	1	1.300
32	25	1	10	700	**199 251 165**	1	1.151	**199 251 175**	1	1.400
40	32	1 ¼	10	1000	**199 251 166**	1	2.500	**199 251 176**	1	2.500
50	40	1 ½	10	1600	**199 251 167**	1	2.800	**199 251 177**	1	2.800
63	50	2	10	3100	**199 251 168**	1	3.700	**199 251 178**	1	3.700
75	65	2 ½	10	5000	**199 251 169**	1	6.600	**199 251 179**	1	6.600
90	80	3	10	7000	**199 251 170**	1	8.400	**199 251 180**	1	8.400
110	100	4	10	11000	**199 251 171**	1	12.600	**199 251 181**	1	12.600

d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	V1 (mm)
16	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	93	28	159	27
20	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	95	28	159	27
25	PPA08	25	17.5	33	58	74	M6	M5	159	20	12	109	33	159	30
32	PPA15	25	17.5	33	68	94	M6	M5	178	20	12	119	36	211	36
40	PPA15	45	23.3	33	84	94	M8	M5	184	20	15	135	43	211	44
50	PPA40	45	23.3	33	97	120	M8	M5	213	20	15	147	45	246	51
63	PPA40	45	24.3	33	124	120	M8	M5	228	20	15	168	51	246	64
75	PPA80	70	28.5	33	166	142	M8	M5	277	20	15	233	68	343	85
90	PPA80	70	28.5	33	200	142	M8	M5	289	20	15	254	71	343	105
110	PPA80	120	28.5	33	238	142	M12	M5	324	20	22	301	82	343	123

d (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)	z (mm)
16	80	30	43	38.0	67
20	80	30	43	38.0	66
25	80	30	43	41.9	77
32	80	30	51	47.0	83
40	80	30	51	53.5	99
50	80	30	62	62.8	105
63	80	30	62	77.0	117
75	80	30	74	119.0	167
90	80	30	74	131.0	180
110	80	30	74	145.0	215



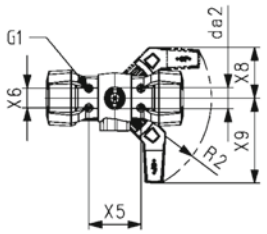
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FC (Fail safe to close)
With manual override
With fusion sockets PP-H ISO

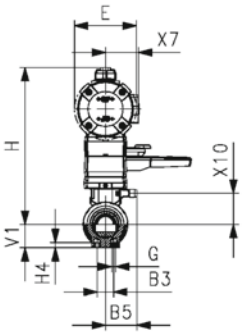
Model:

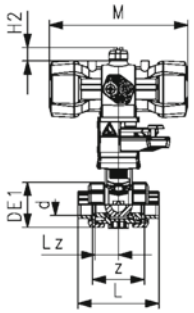
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible



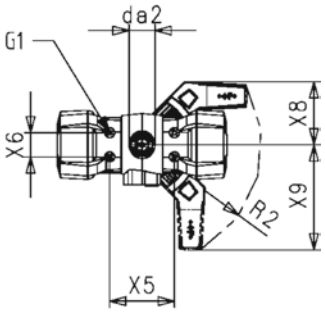




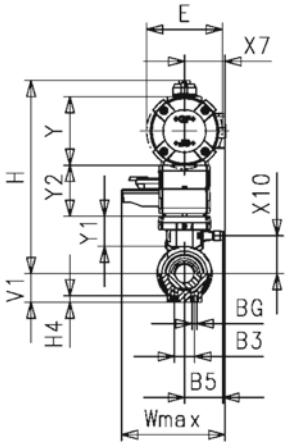
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	10	70	**199 251 002**	1	1.500	**199 251 012**	1	1.500
20	15	½	10	185	**199 251 003**	1	1.500	**199 251 013**	1	1.500
25	20	¾	10	350	**199 251 004**	1	1.307	**199 251 014**	1	1.600
32	25	1	10	700	**199 251 005**	1	1.700	**199 251 015**	1	1.700
40	32	1 ¼	10	1000	**199 251 006**	1	2.800	**199 251 016**	1	2.800
50	40	1 ½	10	1600	**199 251 007**	1	2.440	**199 251 017**	1	3.100
63	50	2	10	3100	**199 251 008**	1	4.000	**199 251 018**	1	2.985

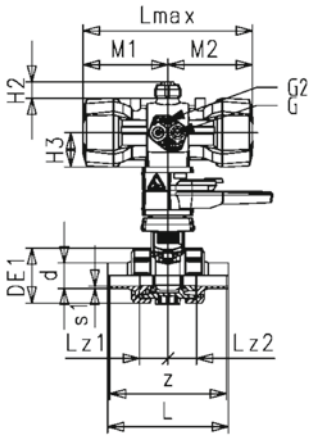
d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	R2
16	PPA08	25	16.2	33	50	74	M6	M5	215	20	12	93	28	159	R150
20	PPA08	25	16.2	33	50	74	M6	M5	215	20	12	95	28	159	R150
25	PPA08	25	17.5	33	58	74	M6	M5	219	20	12	109	33	159	R150
32	PPA15	25	17.5	33	68	94	M6	M5	238	20	12	119	36	211	R150
40	PPA15	45	23.3	33	84	94	M8	M5	244	20	15	135	43	211	R150
50	PPA40	45	23.3	33	97	120	M8	M5	273	20	15	147	45	246	R150
63	PPA40	45	24.3	33	124	120	M8	M5	288	20	15	168	51	246	R150

d (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X8 (mm)	X9 (mm)	X10 (mm)	z (mm)
16	27	80	30	43	78	132	38.00	67
20	27	80	30	43	78	132	38.00	66
25	30	80	30	43	78	132	41.90	77
32	36	80	30	51	78	132	47.00	83
40	44	80	30	51	78	132	53.50	99
50	51	80	30	62	78	132	62.75	105
63	64	80	30	62	78	132	77.00	117









PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FC (Fail safe to close)
With manual override
With butt fusion spigots IR-Plus SDR11 metric

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with type 230 – 235 and 546 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	10	185	**199 251 623**	1	1.500	**199 251 633**	1	1.500
25	20	10	350	**199 251 624**	1	1.600	**199 251 634**	1	1.600
32	25	10	700	**199 251 625**	1	1.700	**199 251 635**	1	1.387
40	32	10	1000	**199 251 626**	1	2.800	**199 251 636**	1	2.800
50	40	10	1600	**199 251 627**	1	3.100	**199 251 637**	1	3.100
63	50	10	3100	**199 251 628**	1	4.000	**199 251 638**	1	4.000

d (mm)	Actuator	DE1 (mm)	s1 (mm)	M1 (mm)	M2 (mm)	Lmax (mm)	H2 (mm)	G2 (mm)	G (mm)	H3 (mm)	Lz1 (mm)	Lz2 (mm)	Q1 (mm)	Q2 (mm)
20	PPA08	50	2.3	80	80	159	20	M5	G 1/4	41	28	28	17	17
25	PPA08	58	2.9	80	80	159	20	M5	G 1/4	41	33	33	16	16
32	PPA15	68	3.7	106	106	211	20	M5	G 1/4	45	36	36	16	16
40	PPA15	84	4.6	106	106	211	20	M5	G 1/4	45	43	43	19	19
50	PPA40	97	5.8	123	123	246	20	M5	G 1/4	56	45	45	22	22
63	PPA40	124	6.8	123	123	246	20	M5	G 1/4	56	51	51	26	26

d (mm)	z (mm)	E (mm)	X7 (mm)	Y1 (mm)	Y2 (mm)	Y (mm)	H (mm)	X10 (mm)	B3 (mm)	BG	Wmax (mm)	V1 (mm)	H4 (mm)	G1 (mm)	da2 (mm)
20	96	74	43	35	60	75	215	35	25	M6	210	27	12	M5	33
25	11	74	43	35	60	75	219	35	25	M6	210	27	12	M5	33
32	118	94	51	35	60	88	238	35	25	M6	210	30	12	M5	33
40	133	9	51	33	60	88	244	33	45	M8	210	36	15	M5	33
50	147	120	62	33	60	111	273	33	45	M8	210	44	15	M5	33
63	169	120	62	36	60	111	288	36	45	M8	210	51	15	M5	33

d (mm)	X6 (mm)	X5 (mm)	X8 (mm)	X9 (mm)	R2
20	30	80	78	132	R150
25	30	80	78	132	R150
32	30	80	78	132	R150
40	30	80	78	132	R150
50	30	80	78	132	R150
63	30	80	78	132	R150



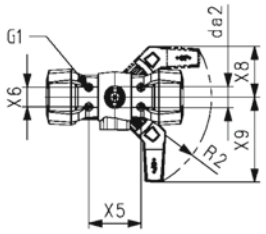
PROGEF Standard Ball valve type 546 Pro with PPA
FO (Fail Safe to Open)
With fusion sockets PP-H ISO
With manual override

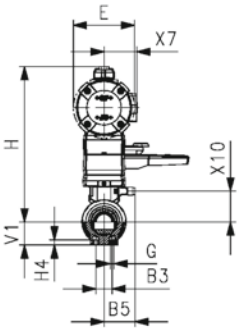
Model:

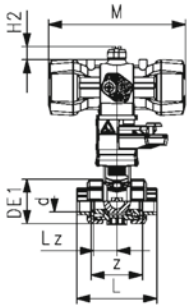
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	10	70	**199 251 042**	1	1.500	**199 251 052**	1	1.500
20	15	½	10	185	**199 251 043**	1	1.500	**199 251 053**	1	1.500
25	20	¾	10	350	**199 251 044**	1	1.308	**199 251 054**	1	1.600
32	25	1	10	700	**199 251 045**	1	1.700	**199 251 055**	1	1.700
40	32	1 ¼	10	1000	**199 251 046**	1	2.800	**199 251 056**	1	2.800
50	40	1 ½	10	1600	**199 251 047**	1	3.100	**199 251 057**	1	3.100
63	50	2	10	3100	**199 251 048**	1	4.000	**199 251 058**	1	4.000

d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	R2
16	PPA08	25	16.2	33	50	74	M6	M5	215	20	12	93	28	159	R150
20	PPA08	25	16.2	33	50	74	M6	M5	215	20	12	95	28	159	R150
25	PPA08	25	17.5	33	58	74	M6	M5	219	20	12	109	33	159	R150
32	PPA15	25	17.5	33	68	94	M6	M5	238	20	12	119	36	211	R150
40	PPA15	45	23.3	33	84	94	M8	M5	244	20	15	135	43	211	R150
50	PPA40	45	23.3	33	97	120	M8	M5	273	20	15	147	45	246	R150
63	PPA40	45	24.3	33	124	120	M8	M5	288	20	15	168	51	246	R150

d (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X8 (mm)	X9 (mm)	X10 (mm)	z (mm)
16	27	80	30	43	78	132	38.00	67
20	27	80	30	43	78	132	38.00	66
25	30	80	30	43	78	132	41.90	77
32	36	80	30	51	78	132	47.00	83
40	44	80	30	51	78	132	53.50	99
50	51	80	30	62	78	132	62.75	105
63	64	80	30	62	78	132	77.00	117



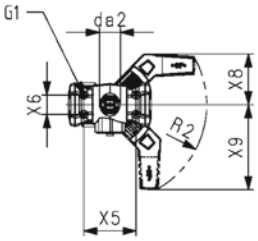
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
DA (Double Acting)
With fusion sockets PP-H ISO
With manual override

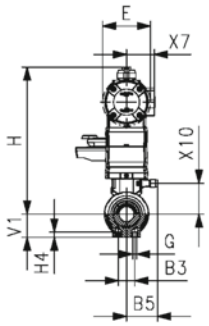
Model:

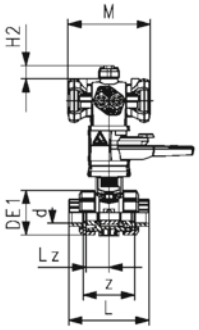
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	10	70	**199 251 082**	1	1.500	**199 251 092**	1	1.500
20	15	½	10	185	**199 251 083**	1	1.500	**199 251 093**	1	1.500
25	20	¾	10	350	**199 251 084**	1	1.600	**199 251 094**	1	1.600
32	25	1	10	700	**199 251 085**	1	1.152	**199 251 095**	1	1.700
40	32	1 ¼	10	1000	**199 251 086**	1	2.800	**199 251 096**	1	2.800
50	40	1 ½	10	1600	**199 251 087**	1	3.100	**199 251 097**	1	3.100
63	50	2	10	3100	**199 251 088**	1	4.000	**199 251 098**	1	4.000

d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	R2
16	PPA08	25	16.2	33	50	74	M6	M5	215	20	12	93	28	128	R150
20	PPA08	25	16.2	33	50	74	M6	M5	215	20	12	95	28	128	R150
25	PPA08	25	17.5	33	58	74	M6	M5	219	20	12	109	33	128	R150
32	PPA08	25	17.5	33	68	74	M6	M5	238	20	12	119	36	128	R150
40	PPA15	45	23.3	33	84	94	M8	M5	244	20	15	135	43	159	R150
50	PPA15	45	23.3	33	97	94	M8	M5	273	20	15	147	45	159	R150
63	PPA40	45	24.3	33	124	120	M8	M5	288	20	15	168	51	184	R150

d (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X8 (mm)	X9 (mm)	X10 (mm)	z (mm)
16	27	80	30	43	78	132	38.00	67
20	27	80	30	43	78	132	38.00	66
25	30	80	30	43	78	132	41.90	77
32	36	80	30	51	78	132	47.00	83
40	44	80	30	51	78	132	53.50	99
50	51	80	30	62	78	132	62.75	105
63	64	80	30	62	78	132	77.00	117



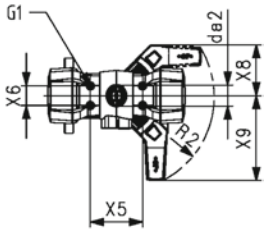
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FC (Fail Safe to Close)
With fixed flanges PP-H ser. ISO
With manual override

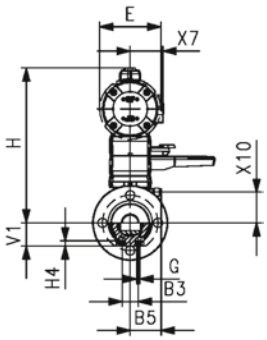
Model:

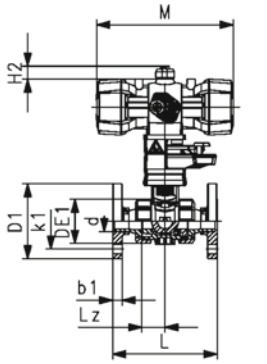
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	½	10	185	**199 251 243**	1	1.700	**199 251 253**	1	1.700
25	20	¾	10	350	**199 251 244**	1	1.900	**199 251 254**	1	1.900
32	25	1	10	700	**199 251 245**	1	2.100	**199 251 255**	1	2.100
40	32	1 ¼	10	1000	**199 251 246**	1	3.400	**199 251 256**	1	3.400
50	40	1 ½	10	1600	**199 251 247**	1	2.885	**199 251 257**	1	3.900
63	50	2	10	3100	**199 251 248**	1	4.900	**199 251 258**	1	4.900

d (mm)	Actuator	b1 (mm)	B3 (mm)	B5 (mm)	D1 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	k1 (mm)	L (mm)
20	PPA08	12	25	16.2	95	33	50	74	M6	M5	215	20	12	56	130
25	PPA08	12	25	17.5	105	33	58	74	M6	M5	219	20	12	75	150
32	PPA15	14	25	17.5	115	33	68	94	M6	M5	238	20	12	85	160
40	PPA15	16	45	23.3	140	33	84	94	M8	M5	244	20	15	100	180
50	PPA40	16	45	23.3	150	33	97	120	M8	M5	273	20	15	110	200
63	PPA40	18	45	24.3	165	33	124	120	M8	M5	288	20	15	125	230

d (mm)	Lz (mm)	M (mm)	R2	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X8 (mm)	X9 (mm)	X10 (mm)
20	28	159	R150	27	80	30	43	78	132	38.00
25	33	159	R150	30	80	30	43	78	132	41.90
32	36	211	R150	36	80	30	51	78	132	47.00
40	43	211	R150	44	80	30	51	78	132	53.50
50	45	246	R150	51	80	30	62	78	132	62.75
63	51	246	R150	64	80	30	62	78	132	77.00



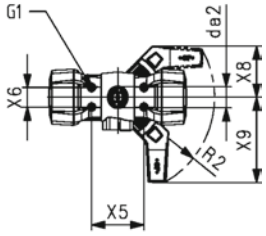
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FC (Fail safe to close)
With manual override
With socket fusion spigots metric

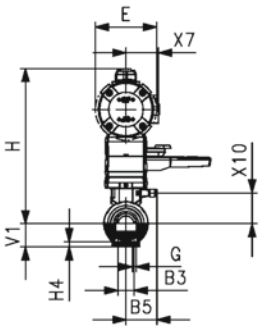
Model:

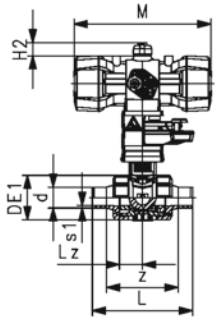
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with type 230 – 235 and 546 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve







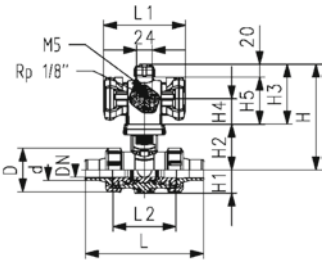
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	10	70	**199 251 022**	1	1.500	**199 251 032**	1	1.500
20	15	½	10	185	**199 251 023**	1	1.500	**199 251 033**	1	1.500
25	20	¾	10	350	**199 251 024**	1	1.600	**199 251 034**	1	1.600
32	25	1	10	700	**199 251 025**	1	1.396	**199 251 035**	1	1.700
40	32	1 ¼	10	1000	**199 251 026**	1	2.278	**199 251 036**	1	2.800
50	40	1 ½	10	1600	**199 251 027**	1	3.100	**199 251 037**	1	3.100
63	50	2	10	3100	**199 251 028**	1	3.034	**199 251 038**	1	3.051

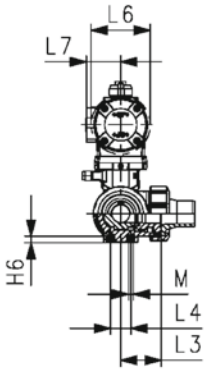
d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	M (mm)	R2	s1 (mm)
16	PPA08	25	16.2	33	50	74	M6	M5	215	20	12	110	159	R150	3.0
20	PPA08	25	16.2	33	50	74	M6	M5	215	20	12	120	159	R150	3.0
25	PPA08	25	17.5	33	58	74	M6	M5	219	20	12	139	159	R150	3.0
32	PPA15	25	17.5	33	68	94	M6	M5	238	20	12	150	211	R150	4.0
40	PPA15	45	23.3	33	84	94	M8	M5	244	20	15	170	211	R150	4.5
50	PPA40	45	23.3	33	97	120	M8	M5	273	20	15	190	246	R150	5.5
63	PPA40	45	24.3	33	124	120	M8	M5	288	20	15	220	246	R150	7.0

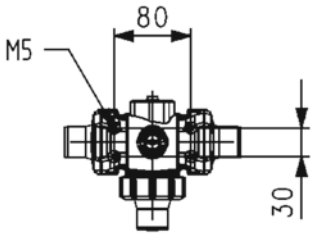
d (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X8 (mm)	X9 (mm)	X10 (mm)	z (mm)
16	27	80	30	43	78	132	38.00	84
20	27	80	30	43	78	132	38.00	92
25	30	80	30	43	78	132	41.90	107
32	36	80	30	51	78	132	47.00	114
40	44	80	30	51	78	132	53.50	130
50	51	80	30	62	78	132	62.75	144
63	64	80	30	62	78	132	77.00	166

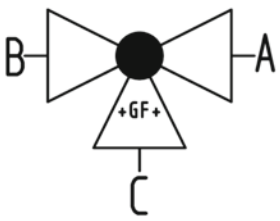
Ball valves pneumatic type 543 Pro P

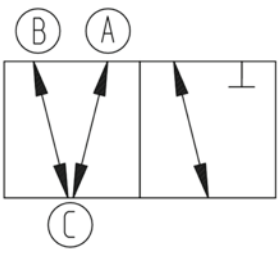












PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/T-port
DA (Double acting)
Without manual override
With butt fusion spigots
IR-Plus SDR11 metric

Model:

- Material: PP-H
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	FKM Code	SP	Weight (kg)
20	15	½	10	200	**199 296 263**	**199 296 273**	1	0.850
25	20	¾	10	470	**199 296 264**	**199 296 274**	1	0.943
32	25	1	10	793	**199 296 265**	**199 296 275**	1	1.071
40	32	1 ¼	10	1290	**199 296 266**	**199 296 276**	1	1.800
50	40	1 ½	10	1910	**199 296 267**	**199 296 277**	1	2.117
63	50	2	10	3100	**199 296 268**	**199 296 278**	1	3.049

d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
20	PPA08	50	157	28	62	95	41	75	8	146	128	72	36	25	74
25	PPA08	58	166	32	71	95	41	75	8	163	128	85	43	25	74
32	PPA08	68	166	36	71	95	41	75	8	178	128	98	49	25	74
40	PPA15	84	192	45	84	108	45	88	9	204	165	118	59	45	94
50	PPA15	97	192	51	84	108	45	88	9	237	165	135	68	45	94
63	PPA40	124	237	65	106	131	56	111	9	296	184	176	88	45	120

d (mm)	L7 (mm)	M	e (mm)	closest inch (inch)
20	32	6	1.9	½
25	32	6	2.3	¾
32	32	6	2.9	1
40	38	8	3.7	1 ¼
50	38	8	4.6	1 ½
63	47	8	5.8	2



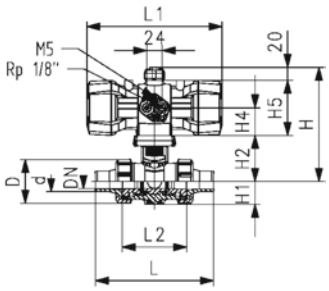
PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/T-port
Without manual override
With socket fusion spigots metric

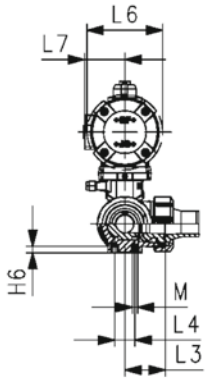
Model:

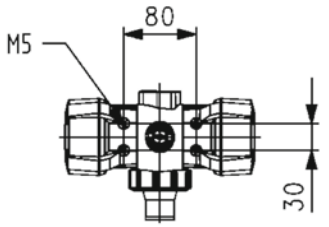
- Material: PP-H
- Actuator fails safe to the closed position FC
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

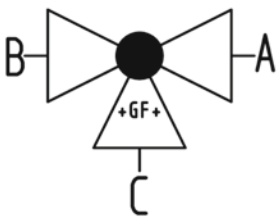
Option:

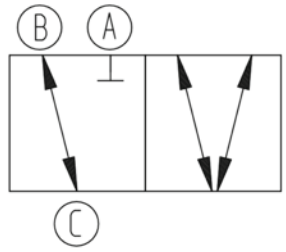
- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve











d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	10	140	**199 296 042**	1	1.035	**199 296 052**	1	1.035
20	15	½	10	200	**199 296 043**	1	1.041	**199 296 053**	1	1.041
25	20	¾	10	470	**199 296 044**	1	1.134	**199 296 054**	1	1.134
32	25	1	10	793	**199 296 045**	1	1.261	**199 296 055**	1	1.261
40	32	1 ¼	10	1290	**199 296 046**	1	2.224	**199 296 056**	1	2.224
50	40	1 ½	10	1910	**199 296 047**	1	2.541	**199 296 057**	1	2.541
63	50	2	10	3100	**199 296 048**	1	3.473	**199 296 058**	1	3.473

d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
16	PPA08	50	157	28	62	95	41	75	8	126	159	72	36	25	74
20	PPA08	50	157	28	62	95	41	75	8	136	159	72	36	25	74
25	PPA15	58	179	32	71	108	45	88	8	159	211	85	43	25	94
32	PPA15	68	179	36	71	108	45	88	8	178	211	98	49	25	94
40	PPA40	84	215	45	84	131	56	111	9	204	246	118	59	45	120
50	PPA40	97	215	51	84	131	56	111	9	237	246	135	68	45	120
63	PPA40	124	237	65	106	131	56	111	9	296	246	176	88	45	120

d (mm)	L7 (mm)	M	closest inch (inch)
16	32	6	⅜
20	32	6	½
25	38	6	¾
32	38	6	1
40	47	8	1 ¼
50	47	8	1 ½
63	47	8	2



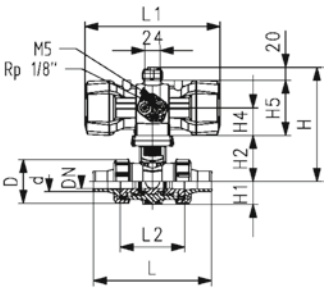
PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/T-port
Without manual override
With butt fusion spigots
IR-Plus SDR11 metric

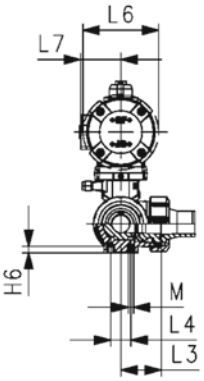
Model:

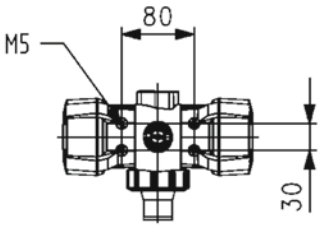
- Material: PP-H
- Actuator fails safe to the closed position FC
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

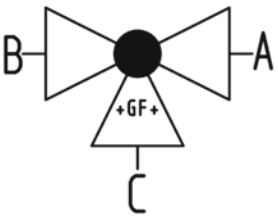
Option:

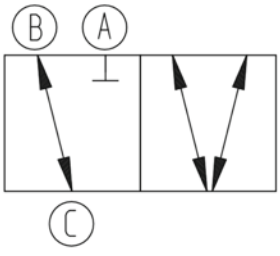
- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve











d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	½	10	200	**199 296 103**	1	1.041	**199 296 113**	1	1.041
25	20	¾	10	470	**199 296 104**	1	1.134	**199 296 114**	1	1.134
32	25	1	10	793	**199 296 105**	1	1.261	**199 296 115**	1	1.261
40	32	1 ¼	10	1290	**199 296 106**	1	2.224	**199 296 116**	1	2.224
50	40	1 ½	10	1910	**199 296 107**	1	2.541	**199 296 117**	1	2.541
63	50	2	10	3100	**199 296 108**	1	3.473	**199 296 118**	1	3.473

d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
20	PPA08	50	157	28	62	95	41	75	8	146	159	72	36	25	74
25	PPA15	58	179	32	71	108	45	88	8	163	211	85	43	25	94
32	PPA15	68	179	36	71	108	45	88	8	178	211	98	49	25	94
40	PPA40	84	215	45	84	131	56	111	9	204	246	118	59	45	120
50	PPA40	97	215	51	84	131	56	111	9	237	246	135	68	45	120
63	PPA40	124	237	65	106	131	56	111	9	296	246	176	88	45	120

d (mm)	L7 (mm)	M	closest inch (inch)
20	32	6	½
25	38	6	¾
32	38	6	1
40	47	8	1 ¼
50	47	8	1 ½
63	47	8	2



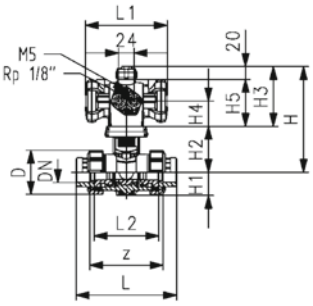
PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/L-port
DA (Double acting)
Without manual override
With threaded sockets reinforced Rp

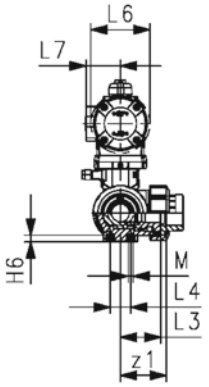
Model:

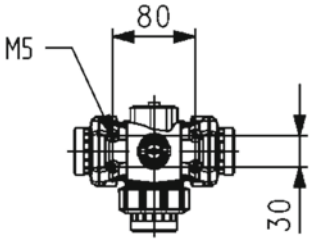
- Material: PP-H
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

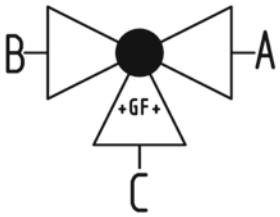
Option:

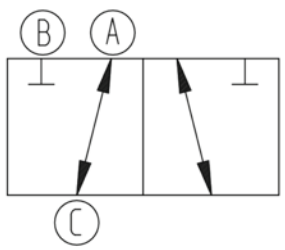
- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve











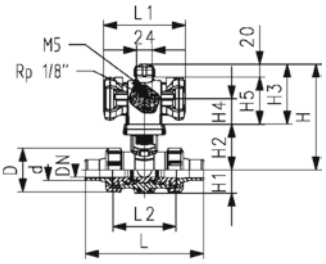
d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	Rp	⅜	10	50	**199 296 282**	1	0.841
20	15	Rp	½	10	75	**199 296 283**	1	0.845
25	20	Rp	¾	10	150	**199 296 284**	1	0.935
32	25	Rp	1	10	280	**199 296 285**	1	1.074
40	32	Rp	1 ¼	10	480	**199 296 286**	1	1.793
50	40	Rp	1 ½	10	620	**199 296 287**	1	2.089
63	50	Rp	2	10	1230	**199 296 288**	1	2.996

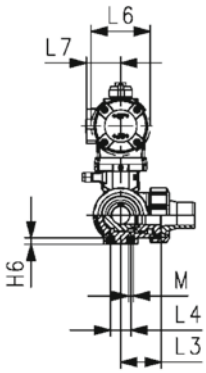
FKM Code	SP	Weight (kg)
199 296 292	1	0.841
199 296 293	1	0.845
199 296 294	1	0.935
199 296 295	1	1.060
199 296 296	1	1.793
199 296 297	1	2.156
199 296 298	1	2.996

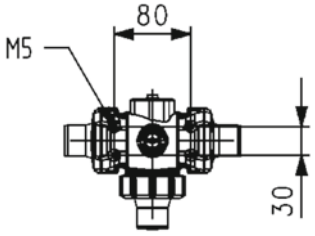
Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
PPA08	50	157	28	62	95	41	75	8	112	128	72	36	25	74
PPA08	50	157	28	62	95	41	75	8	114	128	72	36	25	74
PPA08	58	166	32	71	95	41	75	8	131	128	85	43	25	74
PPA08	68	166	36	71	95	41	75	8	154	128	98	49	25	74
PPA15	84	192	45	84	108	45	88	9	180	165	118	59	45	94
PPA15	97	192	51	84	108	45	88	9	203	165	135	68	45	94
PPA40	124	237	65	106	131	56	111	9	258	184	176	88	45	120

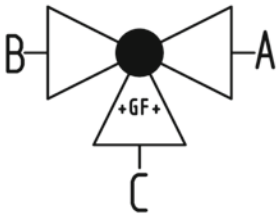
L7 (mm)	M	z (mm)	z1 (mm)
32	6	86	43
32	6	84	42
32	6	99	50
32	6	112	56
38	8	132	66
38	8	153	77
47	8	196	98

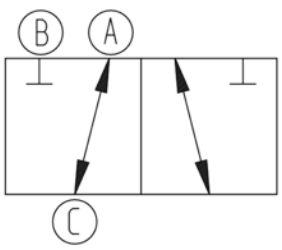












PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/L-port
DA (Double acting)
Without manual override
With socket fusion spigots metric

Model:

- Material: PP-H
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

Option:

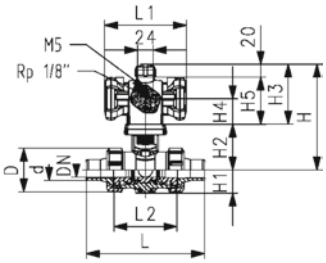
- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

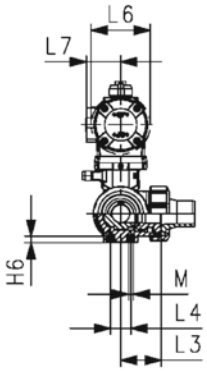
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	10	50	**199 296 162**	1	0.845	**199 296 172**	1	0.845
20	15	½	10	75	**199 296 163**	1	0.851	**199 296 173**	1	0.851
25	20	¾	10	150	**199 296 164**	1	0.945	**199 296 174**	1	0.945
32	25	1	10	280	**199 296 165**	1	1.075	**199 296 175**	1	1.075
40	32	1 ¼	10	480	**199 296 166**	1	1.807	**199 296 176**	1	1.807
50	40	1 ½	10	620	**199 296 167**	1	2.130	**199 296 177**	1	2.130
63	50	2	10	1230	**199 296 168**	1	3.078	**199 296 178**	1	3.078

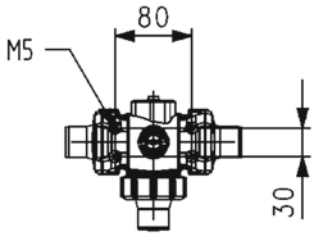
d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
16	PPA08	50	157	28	62	95	41	75	8	126	128	72	36	25	74
20	PPA08	50	157	28	62	95	41	75	8	136	128	72	36	25	74
25	PPA08	58	166	32	71	95	41	75	8	159	128	85	43	25	74
32	PPA08	68	166	36	71	95	41	75	8	178	128	98	49	25	74
40	PPA15	84	192	45	84	108	45	88	9	204	165	118	59	45	94
50	PPA15	97	192	51	84	108	45	88	9	237	165	135	68	45	94
63	PPA40	124	237	65	106	131	56	111	9	296	184	176	88	45	120

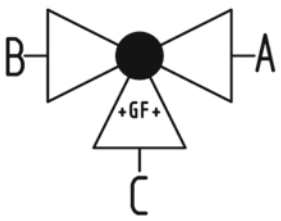
d (mm)	L7 (mm)	M	closest inch (inch)
16	32	6	⅜
20	32	6	½
25	32	6	¾
32	32	6	1
40	38	8	1 ¼
50	38	8	1 ½
63	47	8	2

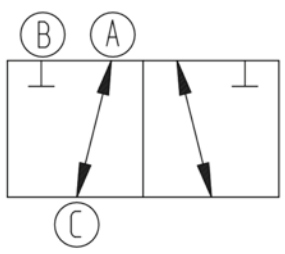












PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/L-port
DA (Double acting)
Without manual override
With butt fusion spigots IR-Plus SDR11 metric

Model:

- Material: PP-H
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

Option:

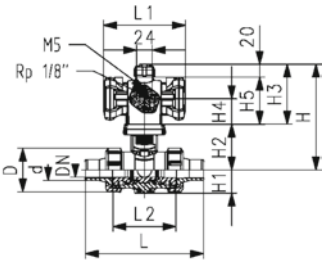
- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

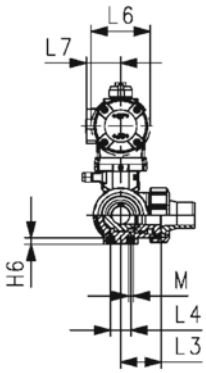
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	½	10	75	**199 296 243**	1	0.851	**199 296 253**	1	0.851
25	20	¾	10	150	**199 296 244**	1	0.945	**199 296 254**	1	0.945
32	25	1	10	280	**199 296 245**	1	1.075	**199 296 255**	1	1.075
40	32	1 ¼	10	480	**199 296 246**	1	1.807	**199 296 256**	1	1.807
50	40	1 ½	10	620	**199 296 247**	1	2.130	**199 296 257**	1	2.130
63	50	2	10	1230	**199 296 248**	1	3.078	**199 296 258**	1	3.082

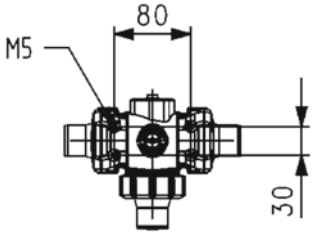
d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
20	PPA08	50	157	28	62	95	41	75	8	146	128	72	36	25	74
25	PPA08	58	166	32	71	95	41	75	8	163	128	85	43	25	74
32	PPA08	68	166	36	71	95	41	75	8	178	128	98	49	25	74
40	PPA15	84	192	45	84	108	45	88	9	204	165	118	59	45	94
50	PPA15	97	192	51	84	108	45	88	9	237	165	135	68	45	94
63	PPA40	124	237	65	106	131	56	111	9	296	184	176	88	45	120

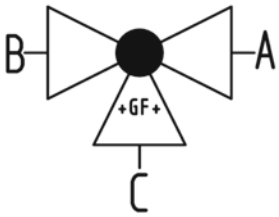
d (mm)	L7 (mm)	M	closest inch (inch)
20	32	6	½
25	32	6	¾
32	32	6	1
40	38	8	1 ¼
50	38	8	1 ½
63	47	8	2

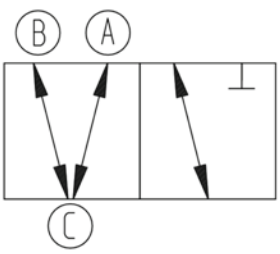












PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/T-port
DA (Double acting)
Without manual override
With socket fusion spigots metric

Model:

- Material: PP-H
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	10	140	**199 296 202**	1	0.844	**199 296 212**	1	0.844
20	15	½	10	200	**199 296 203**	1	0.850	**199 296 213**	1	0.850
25	20	¾	10	470	**199 296 204**	1	0.943	**199 296 214**	1	0.943
32	25	1	10	793	**199 296 205**	1	1.071	**199 296 215**	1	1.071
40	32	1 ¼	10	1290	**199 296 206**	1	1.800	**199 296 216**	1	1.800
50	40	1 ½	10	1910	**199 296 207**	1	2.117	**199 296 217**	1	2.117
63	50	2	10	3100	**199 296 208**	1	3.049	**199 296 218**	1	3.049

d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
16	PPA08	50	157	28	62	95	41	75	8	126	128	72	36	25	74
20	PPA08	50	157	28	62	95	41	75	8	136	128	72	36	25	74
25	PPA08	58	166	32	71	95	41	75	8	159	128	85	43	25	74
32	PPA08	68	166	36	71	95	41	75	8	178	128	98	49	25	74
40	PPA15	84	192	45	84	108	45	88	9	204	165	118	59	45	94
50	PPA15	97	192	51	84	108	45	88	9	237	165	135	68	45	94
63	PPA40	124	237	65	106	131	56	111	9	296	184	176	88	45	120

d (mm)	L7 (mm)	M	closest inch (inch)
16	32	6	⅜
20	32	6	½
25	32	6	¾
32	32	6	1
40	38	8	1 ¼
50	38	8	1 ½
63	47	8	2



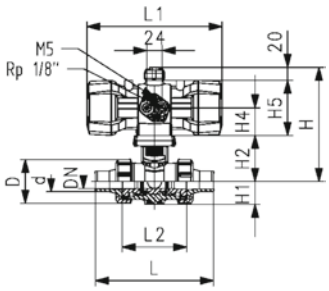
PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/L-port
Without manual override
With socket fusion spigots metric

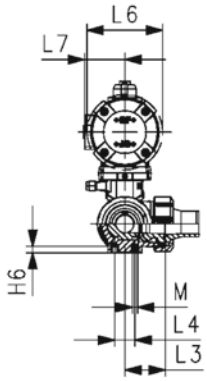
Model:

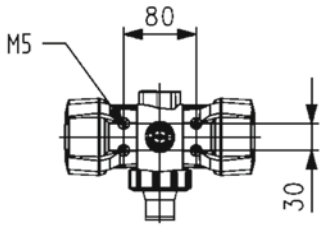
- Material: PP-H
- Actuator fails safe to the closed position FC
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

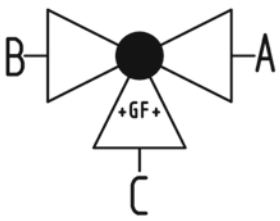
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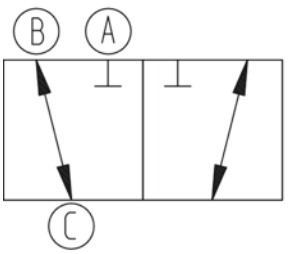
- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve











d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	10	50	**199 296 002**	1	1.035	**199 296 012**	1	1.035
20	15	½	10	75	**199 296 003**	1	1.041	**199 296 013**	1	1.041
25	20	¾	10	150	**199 296 004**	1	1.135	**199 296 014**	1	1.135
32	25	1	10	280	**199 296 005**	1	1.265	**199 296 015**	1	1.265
40	32	1 ¼	10	480	**199 296 006**	1	2.231	**199 296 016**	1	2.231
50	40	1 ½	10	620	**199 296 007**	1	2.554	**199 296 017**	1	2.554
63	50	2	10	1230	**199 296 008**	1	3.502	**199 296 018**	1	3.502

d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
16	PPA08	50	157	28	62	95	41	75	8	126	159	72	36	25	74
20	PPA08	50	157	28	62	95	41	75	8	136	159	72	36	25	74
25	PPA15	58	179	32	71	108	45	88	8	159	211	85	43	25	94
32	PPA15	68	179	36	71	108	45	88	8	178	211	98	49	25	94
40	PPA40	84	215	45	84	131	56	111	9	204	246	118	59	45	120
50	PPA40	97	215	51	84	131	56	111	9	237	246	135	68	45	120
63	PPA40	124	237	65	106	131	56	111	9	296	246	176	88	45	120

d (mm)	L7 (mm)	M	closest inch (inch)
16	32	6	⅜
20	32	6	½
25	38	6	¾
32	38	6	1
40	47	8	1 ¼
50	47	8	1 ½
63	47	8	2



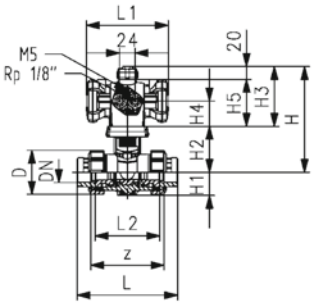
PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/T-port
DA (Double acting)
Without manual override
With threaded sockets reinforced Rp

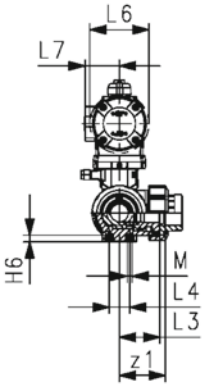
Model:

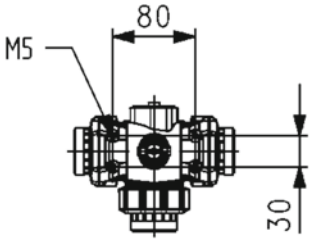
- Material: PP-H
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

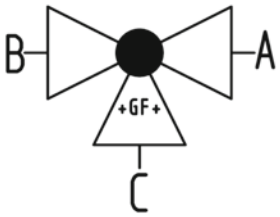
Option:

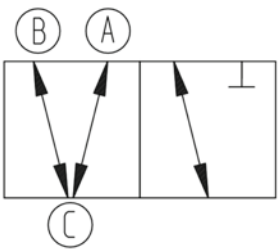
- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve











d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	Rp	⅜	10	140	**199 296 302**	1	0.840
20	15	Rp	½	10	200	**199 296 303**	1	0.844
25	20	Rp	¾	10	470	**199 296 304**	1	0.934
32	25	Rp	1	10	793	**199 296 305**	1	1.055
40	32	Rp	1 ¼	10	1290	**199 296 306**	1	1.786
50	40	Rp	1 ½	10	1910	**199 296 307**	1	2.075
63	50	Rp	2	10	3100	**199 296 308**	1	2.967

FKM Code	SP	Weight (kg)
199 296 312	1	0.840
199 296 313	1	0.844
199 296 314	1	0.934
199 296 315	1	1.055
199 296 316	1	1.786
199 296 317	1	2.075
199 296 318	1	2.967

Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
PPA08	50	157	28	62	95	41	75	8	112	128	72	36	25	74
PPA08	50	157	28	62	95	41	75	8	114	128	72	36	25	74
PPA08	58	166	32	71	95	41	75	8	131	128	85	43	25	74
PPA08	68	166	36	71	95	41	75	8	154	128	98	49	25	74
PPA15	84	192	45	84	108	45	88	9	180	165	118	59	45	94
PPA15	97	192	51	84	108	45	88	9	203	165	135	68	45	94
PPA40	124	237	65	106	131	56	111	9	258	184	176	88	45	120

L7 (mm)	M	z (mm)	z1 (mm)
32	6	86	43
32	6	84	42
32	6	99	50
32	6	112	56
38	8	132	66
38	8	153	77
47	8	196	98



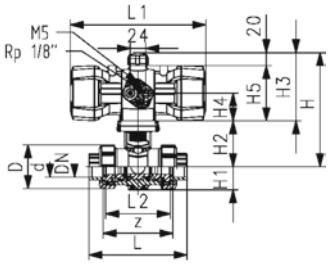
PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/T-port
Without manual override
With fusion sockets metric

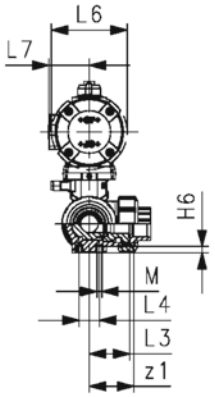
Model:

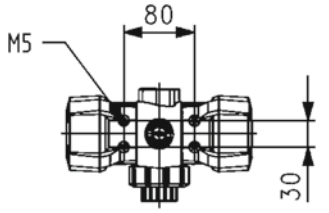
- Material: PP-H
- Actuator fails safe to the closed position FC
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

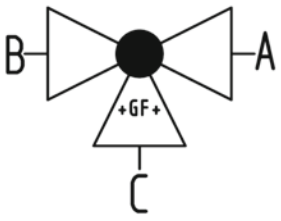
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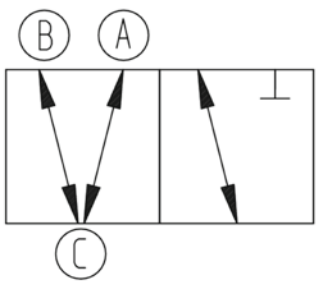
- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve











d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	10	140	**199 296 062**	1	1.031	**199 296 072**	1	1.031
20	15	½	10	200	**199 296 063**	1	1.035	**199 296 073**	1	1.035
25	20	¾	10	470	**199 296 064**	1	1.133	**199 296 074**	1	1.124
32	25	1	10	793	**199 296 065**	1	1.245	**199 296 075**	1	1.266
40	32	1 ¼	10	1290	**199 296 066**	1	2.210	**199 296 076**	1	2.210
50	40	1 ½	10	1910	**199 296 067**	1	2.514	**199 296 077**	1	2.499
63	50	2	10	3100	**199 296 068**	1	3.391	**199 296 078**	1	3.391

d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
16	PPA08	50	157	28	62	95	41	75	8	110	159	72	36	25	74
20	PPA08	50	157	28	62	9	41	75	8	112	159	72	36	25	74
25	PPA15	58	179	32	71	108	45	88	8	129	211	85	43	25	94
32	PPA15	68	179	36	71	108	45	88	8	146	211	98	49	25	94
40	PPA40	84	215	45	84	131	56	111	9	170	246	118	59	45	120
50	PPA40	97	215	51	84	131	56	111	9	193	246	135	68	45	120
63	PPA40	124	237	65	106	131	56	111	9	244	246	176	88	45	120

d (mm)	L7 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	32	6	82	41	⅜
20	32	6	82	41	½
25	38	6	97	49	¾
32	38	6	110	55	1
40	47	8	132	66	1 ¼
50	47	8	151	76	1 ½
63	47	8	188	94	2



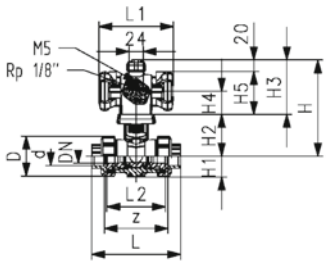
PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/L-port
DA (Double acting)
Without manual override
With fusion sockets metric

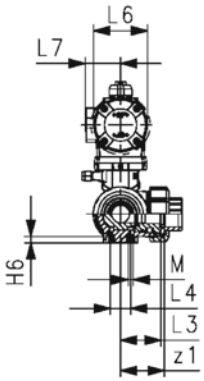
Model:

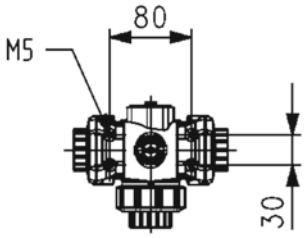
- Material: PP-H
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

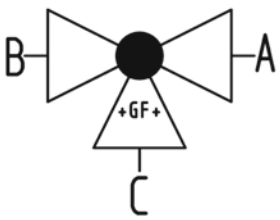
Option:

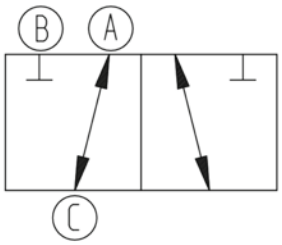
- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve











d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	10	50	**199 296 182**	1	0.841	**199 296 192**	1	0.841
20	15	½	10	75	**199 296 183**	1	0.845	**199 296 193**	1	0.845
25	20	¾	10	150	**199 296 184**	1	0.935	**199 296 194**	1	0.935
32	25	1	10	280	**199 296 185**	1	1.060	**199 296 195**	1	1.060
40	32	1 ¼	10	480	**199 296 186**	1	1.793	**199 296 196**	1	1.793
50	40	1 ½	10	620	**199 296 187**	1	2.089	**199 296 197**	1	2.089
63	50	2	10	1230	**199 296 188**	1	2.996	**199 296 198**	1	2.996

d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
16	PPA08	50	157	28	62	95	41	75	8	110	128	72	36	25	74
20	PPA08	50	157	28	62	95	41	75	8	112	128	72	36	25	74
25	PPA08	58	166	32	71	95	41	75	8	129	128	85	43	25	74
32	PPA08	68	166	36	71	95	41	75	8	146	128	98	49	25	74
40	PPA15	84	192	45	84	108	45	88	9	170	165	118	59	45	94
50	PPA15	97	192	51	84	108	45	88	9	193	165	135	68	45	94
63	PPA40	124	237	65	106	131	56	111	9	244	184	176	88	45	120

d (mm)	L7 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	32	6	82	41	⅜
20	32	6	82	41	½
25	32	6	97	49	¾
32	32	6	110	55	1
40	38	8	132	66	1 ¼
50	38	8	151	76	1 ½
63	47	8	188	94	2



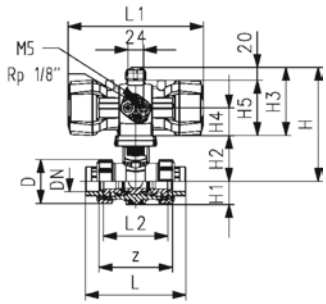
PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/T-port
Without manual override
With threaded sockets reinforced Rp

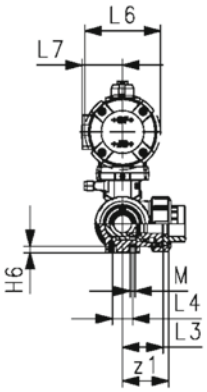
Model:

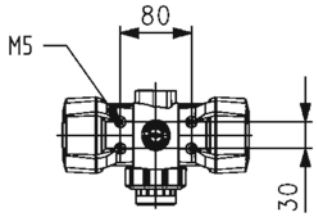
- Material: PP-H
- Actuator fails safe to the closed position FC
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

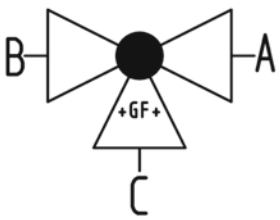
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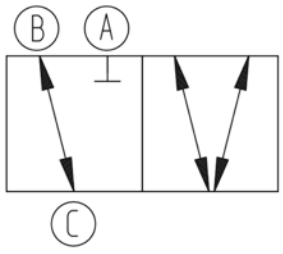
- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve











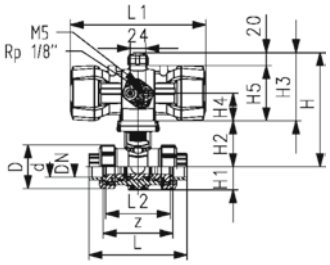
d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	Rp	⅜	10	140	**199 296 142**	1	1.031
20	15	Rp	½	10	200	**199 296 143**	1	1.035
25	20	Rp	¾	10	470	**199 296 144**	1	1.124
32	25	Rp	1	10	793	**199 296 145**	1	1.245
40	32	Rp	1 ¼	10	1290	**199 296 146**	1	2.210
50	40	Rp	1 ½	10	1910	**199 296 147**	1	2.499
63	50	Rp	2	10	3100	**199 296 148**	1	3.391

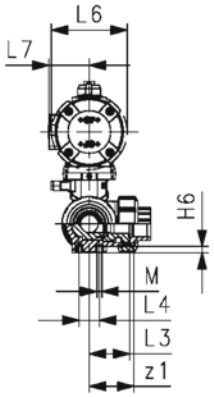
FKM Code	SP	Weight (kg)
199 296 152	1	1.031
199 296 153	1	1.035
199 296 154	1	1.124
199 296 155	1	1.245
199 296 156	1	2.210
199 296 157	1	2.499
199 296 158	1	3.391

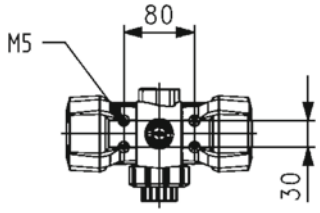
Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
PPA08	50	157	28	62	95	41	75	8	112	159	72	36	25	74
PPA08	50	157	28	62	95	41	75	8	114	159	72	36	25	74
PPA15	58	179	32	71	108	45	88	8	131	211	85	43	25	94
PPA15	68	179	36	71	108	45	88	8	154	211	98	49	25	94
PPA40	84	215	45	84	131	56	111	9	180	246	118	59	45	120
PPA40	97	215	51	84	131	56	111	9	203	246	135	68	45	120
PPA40	124	237	65	106	131	56	111	9	258	246	176	88	45	120

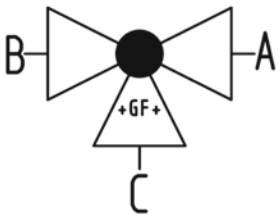
L7 (mm)	M	z (mm)	z1 (mm)
32	6	86	43
32	6	84	42
38	6	99	50
38	6	112	56
47	8	132	66
47	8	153	77
47	8	196	98

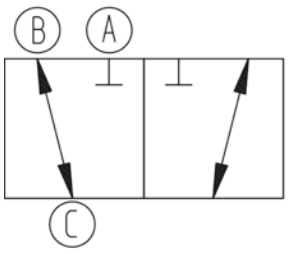












PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/L-port
Without manual override
With fusion sockets metric

Model:

- Material: PP-H
- Actuator fails safe to the closed position FC
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	10	50	**199 296 022**	1	1.031	**199 296 032**	1	1.031
20	15	½	10	75	**199 296 023**	1	1.035	**199 296 033**	1	1.035
25	20	¾	10	150	**199 296 024**	1	1.125	**199 296 034**	1	1.125
32	25	1	10	280	**199 296 025**	1	1.265	**199 296 035**	1	1.250
40	32	1 ¼	10	480	**199 296 026**	1	2.217	**199 296 036**	1	2.217
50	40	1 ½	10	620	**199 296 027**	1	2.513	**199 296 037**	1	2.513
63	50	2	10	1230	**199 296 028**	1	3.420	**199 296 038**	1	3.500

d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
16	PPA08	50	157	28	62	95	41	75	8	110	159	72	36	25	74
20	PPA08	50	157	28	62	95	41	75	8	112	159	72	36	25	74
25	PPA15	58	179	32	71	108	45	88	8	129	211	85	43	25	94
32	PAA15	68	179	36	71	108	45	88	8	146	211	98	49	25	94
40	PPA40	84	215	45	84	131	56	111	9	170	246	118	59	45	120
50	PPA40	97	215	51	84	131	56	111	9	193	246	135	68	45	120
63	PPA40	124	237	65	106	131	56	111	9	244	246	176	88	45	120

d (mm)	L7 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	32	6	82	41	⅜
20	32	6	82	41	½
25	38	6	97	49	¾
32	38	6	110	55	1
40	47	8	132	66	1 ¼
50	47	8	151	76	1 ½
63	47	8	188	94	2



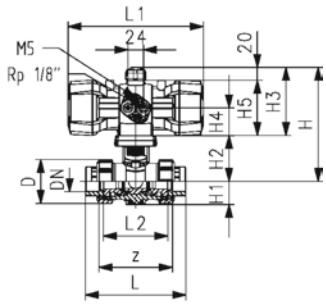
PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/L-port
Without manual override
With threaded sockets reinforced Rp

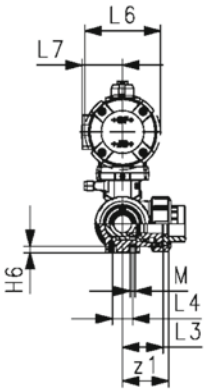
Model:

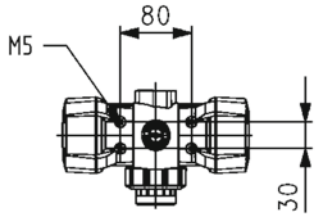
- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

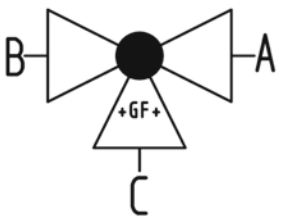
Option:

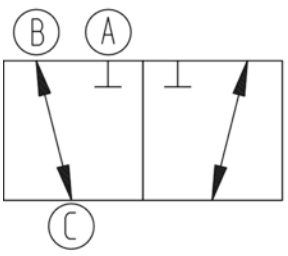
- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve











d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	Rp	⅜	10	50	**199 296 122**	1	1.031
20	15	Rp	½	10	75	**199 296 123**	1	1.035
25	20	Rp	¾	10	150	**199 296 124**	1	1.125
32	25	Rp	1	10	280	**199 296 125**	1	1.250
40	32	Rp	1 ¼	10	480	**199 296 126**	1	2.217
50	40	Rp	1 ½	10	620	**199 296 127**	1	2.513
63	50	Rp	2	10	1230	**199 296 128**	1	3.420

FKM Code	SP	Weight (kg)
199 296 132	1	1.031
199 296 133	1	1.035
199 296 134	1	1.125
199 296 135	1	1.250
199 296 136	1	2.217
199 296 137	1	2.513
199 296 138	1	3.420

Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
PPA08	50	157	28	62	95	41	75	8	112	159	72	36	25	74
PPA08	50	157	28	62	95	41	75	8	114	159	72	36	25	74
PPA15	58	179	32	71	108	45	88	8	131	211	85	43	25	94
PPA15	68	179	36	71	108	45	88	8	154	211	98	49	25	94
PPA40	84	215	45	84	131	56	111	9	180	246	118	59	45	120
PPA40	97	215	51	84	131	56	111	9	203	246	135	68	45	120
PPA40	124	237	65	106	131	56	111	9	258	246	176	88	45	120

L7 (mm)	M	z (mm)	z1 (mm)
32	6	86	43
32	6	84	42
38	6	99	50
38	6	112	56
47	8	132	66
47	8	153	77
47	8	196	98



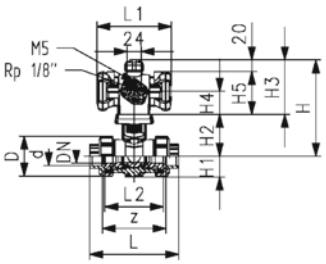
PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/T-port
DA (Double acting)
Without manual override
With fusion sockets metric

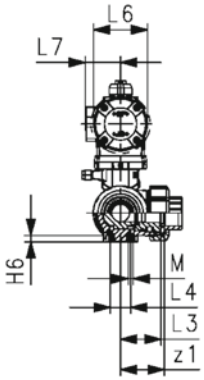
Model:

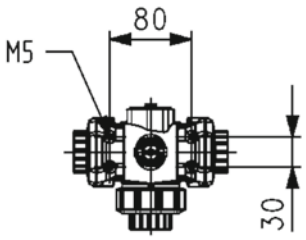
- Material: PP-H
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

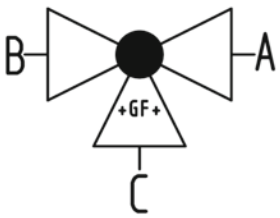
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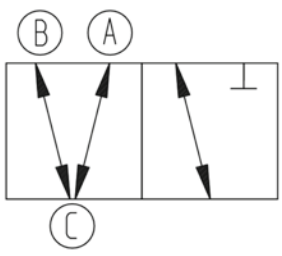
- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve











d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	10	140	**199 296 222**	1	0.840	**199 296 232**	1	0.840
20	15	½	10	200	**199 296 223**	1	0.844	**199 296 233**	1	0.844
25	20	¾	10	470	**199 296 224**	1	0.934	**199 296 234**	1	0.934
32	25	1	10	793	**199 296 225**	1	1.055	**199 296 235**	1	1.055
40	32	1 ¼	10	1290	**199 296 226**	1	1.786	**199 296 236**	1	1.786
50	40	1 ½	10	1910	**199 296 227**	1	2.075	**199 296 237**	1	2.075
63	50	2	10	3100	**199 296 228**	1	2.967	**199 296 238**	1	2.967

d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
16	PPA08	50	157	28	62	95	41	75	8	110	128	72	36	25	74
20	PPA08	50	157	28	62	95	41	75	8	112	128	72	36	25	74
25	PPA08	58	166	32	71	95	41	75	8	129	128	85	43	25	74
32	PPA08	68	166	36	71	95	41	75	8	146	128	98	49	25	74
40	PPA15	84	192	45	84	108	45	88	9	170	165	118	59	45	94
50	PPA15	97	192	51	84	108	45	88	9	193	165	135	68	45	94
63	PPA40	124	237	65	106	131	56	111	9	244	184	176	88	45	120

d (mm)	L7 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	32	6	82	41	⅜
20	32	6	82	41	½
25	32	6	97	49	¾
32	32	6	110	55	1
40	38	8	132	66	1 ¼
50	38	8	151	76	1 ½
63	47	8	188	94	2



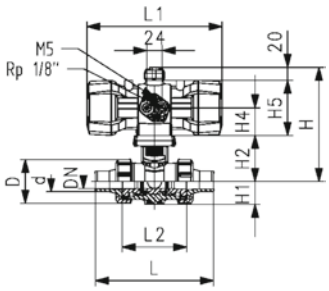
PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/L-port
Without manual override
With butt fusion spigots IR-Plus SDR11 metric

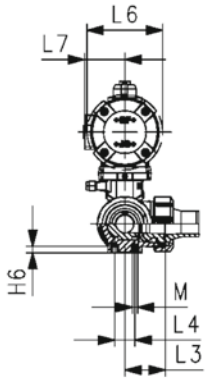
Model:

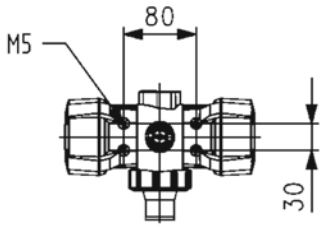
- Material: PP-H
- Actuator fails safe to the closed position FC
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

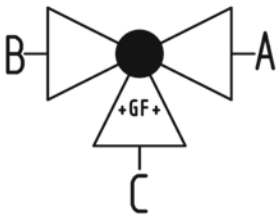
Option:

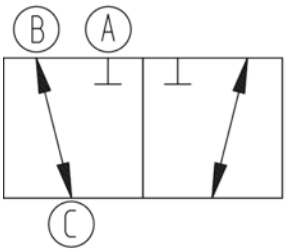
- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve











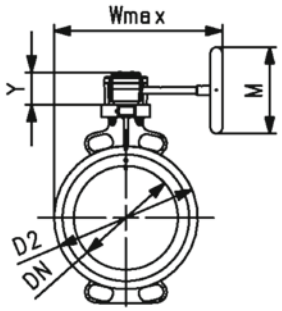
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	½	10	75	**199 296 083**	1	1.050	**199 296 093**	1	1.050
25	20	¾	10	150	**199 296 084**	1	1.135	**199 296 094**	1	1.138
32	25	1	10	280	**199 296 085**	1	1.265	**199 296 095**	1	1.265
40	32	1 ¼	10	480	**199 296 086**	1	2.222	**199 296 096**	1	2.231
50	40	1 ½	10	620	**199 296 087**	1	2.562	**199 296 097**	1	2.554
63	50	2	10	1230	**199 296 088**	1	3.502	**199 296 098**	1	3.568

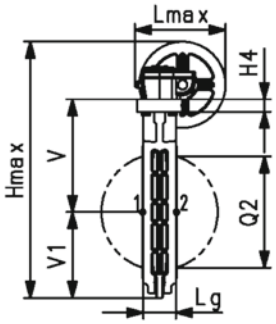
d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
20	PPA08	50	157	28	62	95	41	75	8	146	159	72	36	25	74
25	PPA15	58	179	32	71	108	45	88	8	163	211	85	43	25	94
32	PPA15	68	179	36	71	108	45	88	8	178	211	98	49	25	94
40	PPA40	84	215	45	84	131	56	111	9	204	246	118	59	45	120
50	PPA40	97	215	51	84	131	56	111	9	237	246	135	68	45	120
63	PPA40	124	237	65	106	131	56	111	9	296	246	176	88	45	120

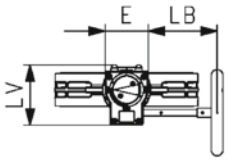
d (mm)	L7 (mm)	M	e (mm)	closest inch (inch)
20	32	6	1.9	½
25	38	6	2.3	¾
32	38	6	2.9	1
40	47	8	3.7	1 ¼
50	47	8	4.6	1 ½
63	47	8	5.8	2

Butterfly valves type 565









Wafer-style intermediate installation butterfly valve type 565 manual PVDF/PA-GF
With gear box
Wafer style metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

Option:

- Individual configuration of the valve possible
- Hand (lockable hand lever), pneumatic or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	50	2	16	1445	**199 565 200**	1	3.0	**199 565 220**	1	3.1
75	65	2 ½	16	2530	**199 565 201**	1	3.2	**199 565 221**	1	3.3
90	80	3	16	4020	**199 565 202**	1	3.4	**199 565 222**	1	3.5
110	100	4	16	5850	**199 565 203**	1	4.2	**199 565 223**	1	4.3
140	125	5	16	11900	**199 565 204**	1	4.7	**199 565 224**	1	5.0
160	150	6	16	18050	**199 565 205**	1	5.5	**199 565 225**	1	5.8
225	200	8	10	43667	**199 565 206**	1	6.7	**199 565 226**	1	7.2
280	250	10	10	62333	**199 565 207**	1	12.7	**199 565 227**	1	13.4
315	300	12	6	94500	**199 565 208**	1	16.5	**199 565 228**	1	17.6

d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	LB (mm)	LV (mm)	M (mm)	Y (mm)
63	100.0	238.5	303.0	169.0	23	133.5	63.0	43	80	128.0	112.5	160	61.5
75	121.0	246.0	329.0	169.0	23	140.0	82.0	46	80	128.0	112.5	160	61.5
90	138.0	248.5	341.5	169.0	23	146.0	89.0	46	80	128.0	112.5	160	61.5
110	158.5	258.5	377.5	169.0	23	166.5	104.0	52	80	128.0	112.5	160	61.5
140	187.0	272.0	405.0	169.0	23	180.0	118.0	56	80	128.0	112.5	160	61.5
160	213.0	285.5	426.5	169.0	23	189.0	130.5	56	80	128.0	112.5	160	61.5
225	267.0	312.5	475.5	169.0	23	209.5	159.0	60	80	128.0	112.5	160	61.5
280	325.5	360.5	603.0	212.5	23	262.5	195.5	68	100	135.5	130.0	200	68.5
315	380.0	387.5	659.5	212.5	23	284.5	230.5	78	100	135.5	130.0	200	68.5

d (mm)	Q2 (mm)
63	28.5
75	44.0
90	63.5
110	84.0
140	110.5
160	137.5
225	190.5
280	239.0
315	285.5



Wafer-style, intermediate installation butterfly valve type 565 PVDF/PA-GF
Bare shaft
Flange standard metric/ANSI/BS/JIS Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

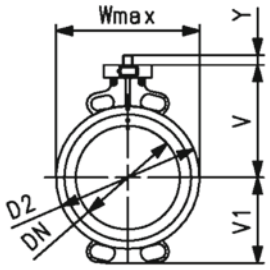
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

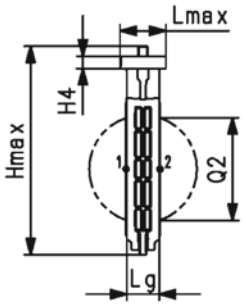
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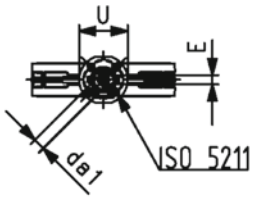
- Individual configuration of the valve possible
- Hand (lockable), pneumatic or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Acc.to ISO 5211	EPDM Code	SP	Weight (kg)
63	50	2	16	1445	F07	**199 565 100**	1	0.9
75	65	2 ½	16	2530	F07	**199 565 101**	1	1.1
90	80	3	16	4020	F07	**199 565 102**	1	1.3
110	100	4	16	5850	F07	**199 565 103**	1	2.0
140	125	5	16	11900	F07	**199 565 104**	1	2.6
160	150	6	16	18050	F07	**199 565 105**	1	3.7
225	200	8	10	43667	F07	**199 565 106**	1	4.7
280	250	10	10	62333	F10	**199 565 107**	1	8.8
315	300	12	6	94500	F10	**199 565 108**	1	12.6

d (mm)	FKM Code	SP	Weight (kg)
63	**199 565 120**	1	1.0
75	**199 565 121**	1	1.2
90	**199 565 122**	1	1.4
110	**199 565 123**	1	2.2
140	**199 565 124**	1	2.9
160	**199 565 125**	1	3.8
225	**199 565 126**	1	5.2
280	**199 565 127**	1	9.5
315	**199 565 128**	1	13.7

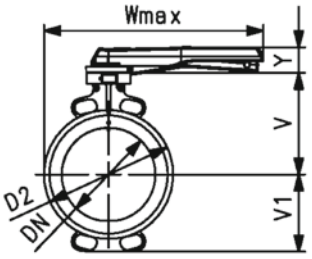
d (mm)	D2 (mm)	Wmax (mm)	Lmax (mm)	Hmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	da1 (mm)	E (mm)	U (mm)	Y (mm)	Q2 (mm)
63	100.0	118.5	85.5	222.5	23.0	133.5	63.0	43.0	14.1	11.0	90.0	27.0	28.5
75	121.0	132.5	85.5	248.5	23.0	140.0	82.0	46.0	14.1	11.0	90.0	27.0	44.0
90	138.0	138.0	85.5	261.0	23.0	146.0	89.0	46.0	14.1	11.0	90.0	27.0	63.5
110	158.5	158.5	85.5	286.0	23.0	166.5	104.0	52.0	18.1	14.0	90.0	16.0	84.0
140	187.0	187.0	85.5	313.5	23.0	180.0	118.0	56.0	18.1	14.0	90.0	16.0	110.5
160	213.0	213.0	85.5	337.5	23.0	189.0	130.5	56.0	22.2	17.0	90.0	19.0	137.5
225	267.0	267.0	85.5	387.0	23.0	209.5	159.0	60.0	22.2	17.0	90.0	18.5	190.5
280	325.5	325.5	125.0	498.5	23.0	262.5	195.5	68.0	28.2	22.0	125.0	40.5	239.0
315	380.0	380.0	125.0	555.0	23.0	284.5	230.5	78.0	28.2	22.0	125.0	40.5	285.5



Wafer-style, intermediate installation butterfly valve type 565 PVDF/PA-GF
With hand lever
Flange standard metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Lockable ergonmic lever
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

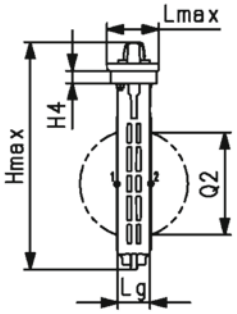


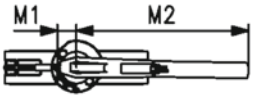
Option:

- Individual configuration of the valve possible
- Pneumatic or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com





d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	16	1445	**199 565 000**	1	1.3	**199 565 020**	1	1.4
75	2 ½	65	16	2530	**199 565 001**	1	1.5	**199 565 021**	1	1.6
90	3	80	16	4020	**199 565 002**	1	1.7	**199 565 022**	1	1.8
110	4	100	16	5850	**199 565 003**	1	2.5	**199 565 023**	1	2.7
140	5	125	16	11900	**199 565 004**	1	3.1	**199 565 024**	1	3.3
160	6	150	16	18050	**199 565 005**	1	4.0	**199 565 025**	1	4.3
225	8	200	10	43667	**199 565 006**	1	5.3	**199 565 026**	1	5.7

d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	M1 (mm)	M2 (mm)	Y (mm)	Q2 (mm)
63	100.0	264.0	249.5	96.0	23.0	133.5	63.0	43.0	35.5	204.5	53.0	28.5
75	121.0	271.0	275.5	96.0	23.0	140.0	82.0	46.0	35.5	204.5	53.0	44.0
90	138.0	273.5	288.0	96.0	23.0	146.0	89.0	46.0	35.5	204.5	53.0	63.5
110	158.5	334.0	324.0	96.0	23.0	166.5	104.0	52.0	35.5	254.5	53.0	84.0
140	187.0	348.0	351.0	96.0	23.0	180.0	118.0	56.0	35.5	254.5	53.0	110.5
160	213.0	426.0	372.5	96.0	23.0	189.0	130.5	56.0	35.5	319.5	53.0	137.5
225	267.0	453.0	422.0	96.0	23.0	209.5	159.0	60.0	35.5	319.5	53.0	190.5



Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With pneumatic actuator - fail safe to close (FC)
Flange standard ISO/Metric
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

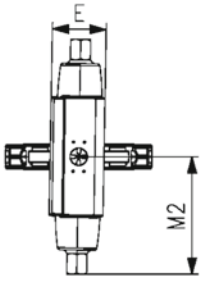
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16
- For easy installation and removal
- Control time 0-90° 1-2s
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

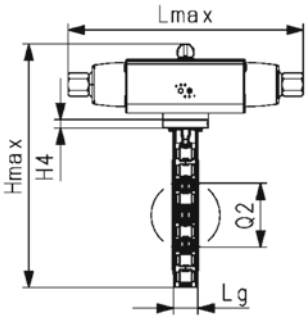
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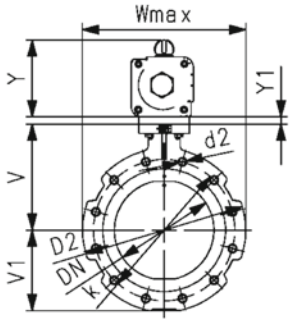
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	10	1445	PA30	**199 575 500**	3.864	**199 575 520**	3.933
75	65	2 ½	10	2530	PA30	**199 575 501**	4.185	**199 575 521**	4.287
90	80	3	10	4020	PA35	**199 575 502**	5.354	**199 575 522**	5.477
110	100	4	10	5850	PA40	**199 575 503**	7.382	**199 575 523**	7.622
140	125	5	10	11900	PA45	**199 575 504**	9.948	**199 575 524**	10.208
160	150	6	10	18050	PA50	**199 575 505**	12.625	**199 575 525**	12.943
225	200	8	10	43667	PA60	**199 575 506**	18.810	**199 575 526**	19.266
280	250	10	10	62333	PA65	**199 575 507**	29.492	**199 575 527**	30.172
315	300	12	6	94500	PA70	**199 575 508**	37.315	**199 575 528**	38.445

d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)	E (mm)
63	50	316.6	274.4	140	133.3	70.1	98.2	43	28.3	125	M16	155	23	70.4
75	65	333.9	274.4	161	139.9	80.8	98.2	46	43.8	145	M16	175	23	70.4
90	80	363.0	325.2	180	145.6	91.3	111.1	46	63.5	160	M16	190	23	83.3
110	100	387.4	359.6	211	166.4	106.2	114.8	52	83.7	180	M16	221	23	87.0
140	125	449.8	418.0	239	180.0	120.3	149.5	56	110.4	210	M16	250	23	107.5
160	150	474.5	434.0	263	189.0	132.4	153.1	56	137.3	240	M20	277	23	111.1
225	200	546.8	547.3	319	209.5	160.3	177.0	60	191.1	295	M20	337	23	135.0
280	250	668.6	646.0	403	262.5	199.1	190.0	68	238.9	350	M20	403	23	148.0
315	300	746.9	681.0	482	284.3	235.5	210.1	78	285.5	400	M20	479	23	168.0

d (mm)	DN (mm)	Y1 (mm)	M2 (mm)
63	50	15	137.2
75	65	15	137.2
90	80	15	162.6
110	100		179.8
140	125		209.0
160	150		217.0
225	200		274.0
280	250	17	323.0
315	300	17	340.5



Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With pneumatic actuator - fail safe to close (FC)
Flange standard ANSI / ASTM / ASME
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

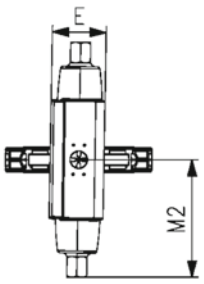
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16
- For easy installation and removal
- Control time 0-90° 1-2s
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

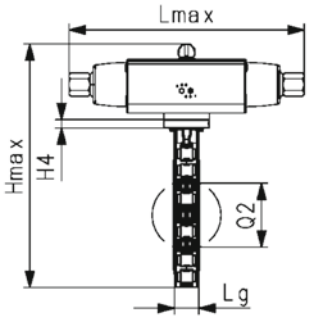
Option:

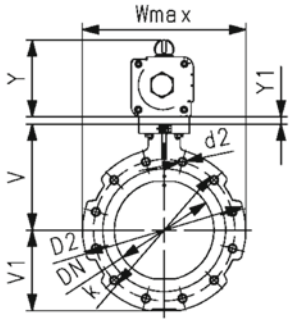
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	16	1445	PA30	**199 576 500**	3.851	**199 576 520**	3.920
75	65	2 ½	16	2530	PA30	**199 576 501**	4.171	**199 576 521**	4.273
90	80	3	16	4020	PA35	**199 576 502**	5.317	**199 576 522**	5.440
110	100	4	16	5850	PA40	**199 576 503**	7.475	**199 576 523**	7.651
140	125	5	16	11900	PA45	**199 576 504**	9.746	**199 576 524**	10.006
160	150	6	16	18050	PA50	**199 576 505**	12.693	**199 576 525**	13.011
225	200	8	10	43667	PA60	**199 576 506**	18.891	**199 576 526**	19.347
280	250	10	10	62333	PA65	**199 576 507**	29.205	**199 576 527**	29.885
315	300	12	6	94500	PA70	**199 576 508**	37.310	**199 576 528**	38.440

d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)
63	50	316.6	274.4	140	133.3	70.1	98.2	43	28.3	120.7	UNC 5/8	155	23
75	65	333.9	274.4	161	139.9	80.8	98.2	46	43.8	139.7	UNC 5/8	175	23
90	80	363.0	325.2	180	145.6	91.3	111.1	46	63.5	152.4	UNC 5/8	190	23
110	100	287.4	259.6	211	166.4	106.2	114.8	52	83.7	190.5	UNC 5/8	221	23
140	125	449.8	418.0	239	180.0	120.3	149.5	56	110.4	215.9	UNC 3/4	250	23
160	150	474.5	434.0	263	189.0	132.4	153.1	56	137.3	241.3	UNC 3/4	277	23
225	200	546.8	547.3	319	209.5	160.3	177.0	60	191.1	298.5	UNC 3/4	337	23
280	250	668.6	646.0	403	262.5	199.1	190.0	68	238.9	362.0	UNC 7/8	403	23
315	300	746.9	681.0	482	284.3	235.5	210.1	78	285.5	431.8	UNC 7/8	479	23

d (mm)	DN (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	50	70.4	15	137.2
75	65	70.4	15	137.2
90	80	83.3	15	162.6
110	100	87.0		179.8
140	125	107.5		209.0
160	150	111.1		217.0
225	200	135.0		274.0
280	250	148.0	17	323.0
315	300	168.0	17	340.5



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF
With electric actuator 230V
Without manual override
Flange standard metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

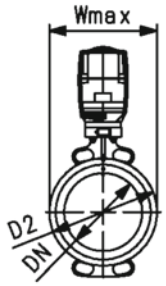
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Voltage 100-230V, 50-60Hz
- Factory set control range 0-90°
- Heating element, position feedback (Open/Close/ Middle)
- Manual override integrated in electric actuator
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

Option:

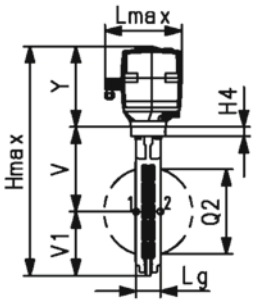
- Individual configuration of the valve possible
- Hand or pneumatic actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board
- Additional manual override between valve and actuator

Note:

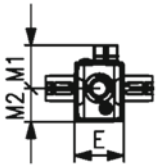
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	SP	Weight (kg)
63	50	2	10	1445	EA45	**199 565 300**	1	3.3
75	65	2 ½	10	2530	EA120	**199 565 301**	1	4.6
90	80	3	10	4020	EA120	**199 565 302**	1	4.7
110	100	4	10	5850	EA120	**199 565 303**	1	5.6
140	125	5	10	11900	EA120	**199 565 304**	1	6.1
160	150	6	10	18050	EA250	**199 565 305**	1	8.7
225	200	8	10	43667	EA250	**199 565 306**	1	10.0
280	250	10	6	62333	EA250	**199 565 307**	1	14.5
315	300	12	4	94500	EA250	**199 565 308**	1	18.2



d (mm)	FKM Code	SP	Weight (kg)
63	**199 565 320**	1	3.4
75	**199 565 321**	1	4.7
90	**199 565 322**	1	4.8
110	**199 565 323**	1	5.8
140	**199 565 324**	1	6.4
160	**199 565 325**	1	9.0
225	**199 565 326**	1	10.5
280	**199 565 327**	1	15.2
315	**199 565 328**	1	19.4



d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	M1 (mm)	M2 (mm)	Y (mm)	Q2 (mm)
63	100.0	122.5	377.5	190.0	23	133.5	63.0	43	122.5	107.5	83	166.5	28.5
75	121.0	132.5	411.5	190.0	23	140.0	82.0	46	122.5	107.5	83	189.5	44.0
90	138.0	137.5	424.0	190.0	23	146.0	89.0	46	122.5	107.5	83	189.5	63.5
110	158.5	158.5	459.5	190.0	23	166.5	104.0	52	122.5	107.5	83	189.5	84.0
140	187.0	187.0	487.5	190.0	23	180.0	118.0	56	122.5	107.5	83	189.5	110.5
160	213.0	213.0	518.5	190.0	23	189.0	130.5	56	122.5	107.5	83	199.5	137.5
225	267.0	267.0	568.0	190.0	23	209.5	159.0	60	122.5	107.5	83	199.5	190.5
280	325.5	325.5	674.5	190.0	23	262.5	195.5	68	122.5	107.5	83	216.5	239.0
315	380.0	380.0	731.0	190.0	23	284.5	230.5	78	122.5	107.5	83	216.5	285.5

Butterfly valves type 567



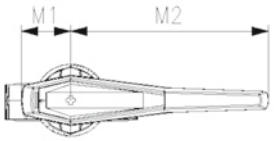
PROGEF Standard Wafer-style intermediate installation butterfly valve type 567
With hand lever
Flange standard metric/ANSI/BS/JIS

Model:

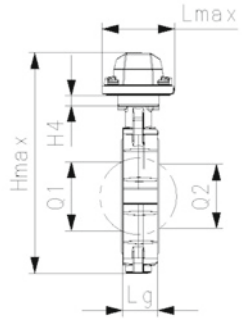
- Material: PP-H, DN350-DN600 material PP-R
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

Note:

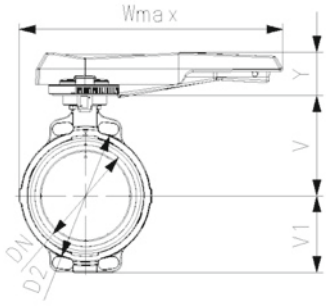
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**167 567 002**	1.170	**167 567 022**	1.627
75	2 ½	65	10	1500	**167 567 003**	1.254	**167 567 023**	1.061
90	3	80	10	2400	**167 567 004**	1.384	**167 567 024**	1.404
110	4	100	10	3800	**167 567 005**	1.961	**167 567 025**	1.998
140	5	125	10	8600	**167 567 006**	2.367	**167 567 026**	2.429
160	6	150	10	11400	**167 567 007**	3.741	**167 567 027**	3.246
225	8	200	10	19900	**167 567 008**	5.545	**167 567 028**	5.609
280	10	250	6	34000	**167 567 009**	11.061	**167 567 029**	11.841
315	12	300	6	50000	**167 567 010**	16.548	**167 567 030**	13.245



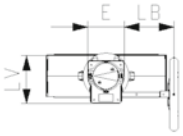
d (mm)	PTFE Code	Weight (kg)
63	**167 567 202**	1.170
75	**167 567 203**	1.254
90	**167 567 204**	1.384
110	**167 567 205**	1.961
140	**167 567 206**	2.367
160	**167 567 207**	3.741
225	**167 567 208**	5.545
280	**167 567 209**	11.061
315	**167 567 210**	16.548



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	M1 (mm)	M2 (mm)
63	278.9	115.2	269.0	90	133.3	23	78.8	45	104	40		66.8	64.7	205.5
75	291.8	115.2	281.8	90	139.9	23	85.1	46	115	54	35	66.8	64.7	205.5
90	303.6	115.2	273.9	90	145.6	23	91.2	49	131	67	50	66.8	64.7	205.5
110	342.2	115.2	336.0	90	166.4	23	105.7	56	161	88	74	70.1	64.9	255.5
140	368.9	115.2	349.0	90	180.0	23	118.8	64	187	113	97	70.1	64.9	255.5
160	390.0	115.2	363.0	90	189.0	23	130.9	72	215	139	123	70.1	64.9	255.5
225	455.1	149.4	543.0	90	210.5	23	158.3	73	267	178	169	86.3	103.6	409.5
280	555.0	149.4	574.0	125	262.6	23	206.1	113	329	210	207	86.3	103.6	409.5
315	599.4	149.4	599.7	125	284.3	23	228.8	113	379	256	253	86.3	103.6	409.5







PROGEF Standard Wafer-style intermediate installation butterfly valve type 567
With gear box
Flange standard metric/ANSI/BS/JIS

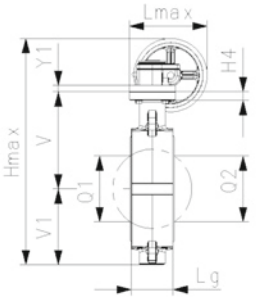
Model:

- Material: PP-H, DN350-DN600 material PP-R
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

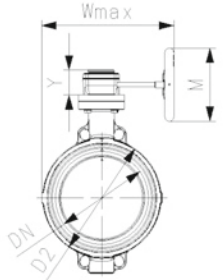
Note:

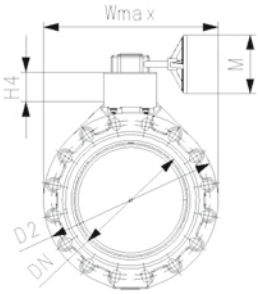
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**167 567 042**	3.003	**167 567 062**	3.007
75	2 ½	65	10	1500	**167 567 043**	2.781	**167 567 063**	3.099
90	3	80	10	2400	**167 567 044**	3.301	**167 567 064**	3.229
110	4	100	10	3800	**167 567 045**	3.736	**167 567 065**	3.741
140	5	125	10	8600	**167 567 046**	2.770	**167 567 066**	4.243
160	6	150	10	11400	**167 567 047**	4.969	**167 567 067**	5.038
225	8	200	10	19900	**167 567 048**	8.538	**167 567 068**	6.539
280	10	250	8	34000	**167 567 049**	12.884	**167 567 069**	13.074
315	12	300	8	50000	**167 567 050**	16.442	**167 567 070**	16.066
350	14	350	6	90000	**167 567 051**	40.000	**167 567 071**	40.000
400	16	400	6	115000	**167 567 052**	50.000	**167 567 072**	50.000
450	18	450	5	155000	**167 567 053**	70.000	**167 567 073**	70.000
500	20	500	4	204000	**167 567 054**	90.000	**167 567 074**	90.000
630	24	600	4	265000	**167 567 055**	125.000	**167 567 075**	125.000



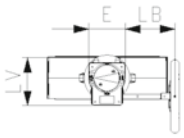
d (mm)	PTFE Code	Weight (kg)
63	**167 567 242**	3.003
75	**167 567 243**	2.781
90	**167 567 244**	3.301
110	**167 567 245**	3.736
140	**167 567 246**	2.770
160	**167 567 247**	4.969
225	**167 567 248**	8.538
280	**167 567 249**	12.884
315	**167 567 250**	16.442
350	**167 567 251**	40.000
400	**167 567 252**	50.000
450	**167 567 253**	70.000
500	**167 567 254**	90.000
630	**167 567 255**	125.000

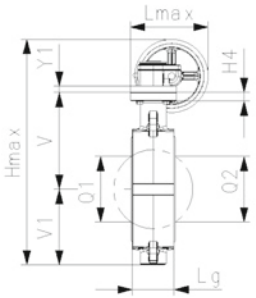


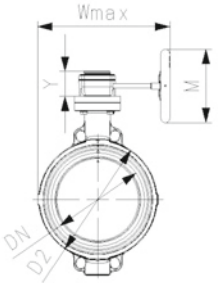


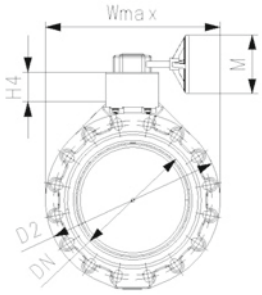
d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y1 (mm)	M (mm)	Y (mm)
63	319.4	169.1	240.2	90	133.3	23	78.8	45	104	40			160	61.2
75	332.3	169.1	247.3	90	139.9	23	85.1	46	115	54	35		160	61.2
90	344.1	169.1	249.4	90	145.6	23	91.2	49	131	67	50		160	61.2
110	379.4	169.1	261.5	90	166.4	23	105.7	56	161	88	74		160	61.2
140	406.1	169.1	274.5	90	180.0	23	118.8	64	187	113	97		160	61.2
160	427.2	169.1	288.5	90	189.0	23	130.9	72	215	139	123		160	61.2
225	476.1	169.1	267.0	90	210.5	23	158.3	73	267	178	169		160	61.2
280	613.0	212.6	329.0	125	262.6	23	206.1	113	329	210	207	17	200	68.4
315	657.4	212.6	380.4	125	284.3	23	228.8	113	379	256	253	17	200	68.4
350	805.0	217.0	535.0	180	410.0	100	268.0	129	535	325	305		200	62.0

table continued on the next page









d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y1 (mm)	M (mm)	Y (mm)
400	865.0	245.0	595.0	180	435.0	100	300.0	169	595	353	350		200	62.0
450	992.0	275.0	635.0	220	520.0	130	320.0	179	635	393	390		250	62.0
500	1083.0	321.0	700.0	220	550.0	130	350.0	190	700	444	440		300	70.0
630	1216.0	331.0	813.0	220	610.0	130	420.0	209	813	530	527		300	70.0

d (mm)	E (mm)	LV (mm)	LB (mm)
63	80	112.3	129.5
75	80	112.3	129.5
90	80	112.3	129.5
110	80	112.3	129.5
140	80	112.3	129.5
160	80	112.3	129.5
225	80	112.3	129.5
280	100	130.0	134.0
315	100	130.0	134.0
350	130	146.0	122.0
400	130	174.0	122.0
450	130	185.0	203.0
500	174	201.0	151.0
630	74	210.0	151.0





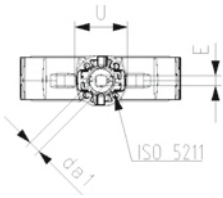
PROGEF Standard Wafer-style intermediate installation butterfly valve type 567
Bare shaft
Flange standard metric/ANSI/BS/JIS

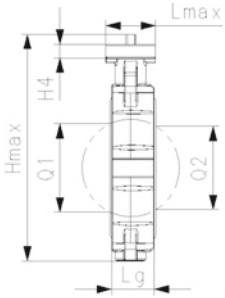
Model:

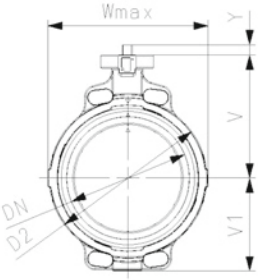
- Material: PP-H, DN350-DN600 material PP-R
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Interface F07 for the dimensions DN50-200 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211
- Interface F12 for the dimensions DN350-400 according to DIN/ISO 5211
- Interface F14 for the dimensions DN450-600 according to DIN/ISO 5211

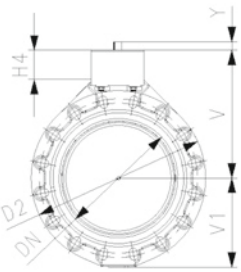
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







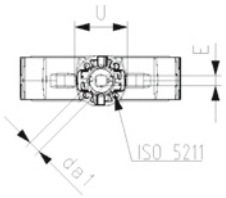


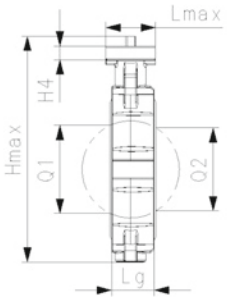
d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**167 567 802**	0.699	**167 567 822**	0.721
75	2 ½	65	10	1500	**167 567 803**	0.793	**167 567 823**	0.804
90	3	80	10	2400	**167 567 804**	0.913	**167 567 824**	0.939
110	4	100	10	3800	**167 567 805**	1.409	**167 567 825**	1.450
140	5	125	10	8600	**167 567 806**	1.831	**167 567 826**	1.929
160	6	150	10	11400	**167 567 807**	2.641	**167 567 827**	2.713
225	8	200	10	19900	**167 567 808**	4.110	**167 567 828**	4.186
280	10	250	8	34000	**167 567 809**	9.412	**167 567 829**	10.251
315	12	300	8	50000	**167 567 810**	13.054	**167 567 830**	13.251
355	14	350	6	90000	**167 567 811**	35.000	**167 567 831**	35.000
400	16	400	6	115000	**167 567 812**	45.000	**167 567 832**	45.000
450	18	450	5	155000	**167 567 813**	60.000	**167 567 833**	60.000
500	20	500	4	204000	**167 567 814**	75.000	**167 567 834**	75.000
630	24	600	4	265000	**167 567 815**	110.000	**167 567 835**	110.000

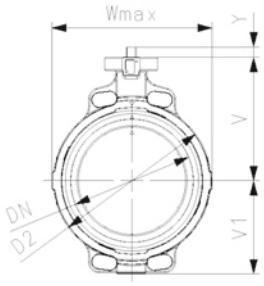
d (mm)	Size (inch)	DN (mm)	PTFE Code	Weight (kg)
63	2	50	**167 567 840**	0.699
75	2 ½	65	**167 567 841**	0.793
90	3	80	**167 567 842**	0.913
110	4	100	**167 567 843**	1.409
140	5	125	**167 567 844**	1.831
160	6	150	**167 567 845**	2.641
225	8	200	**167 567 846**	4.110
280	10	250	**167 567 847**	9.412
315	12	300	**167 567 848**	13.054
355	14	350	**167 567 849**	35.000
400	16	400	**167 567 850**	45.000
450	18	450	**167 567 851**	60.000
500	20	500	**167 567 852**	75.000
630	24	600	**167 567 853**	110.000

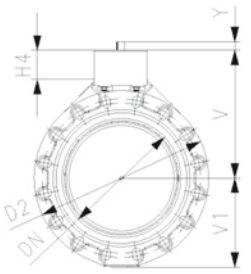
d (mm)	Size (inch)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)
63	2	50	238.3	84.8	118.4	90	133.3	23	78.8	45	104	40		26.2
75	2 ½	65	251.2	84.8	132.5	90	139.9	23	85.1	46	115	54	35	26.2
90	3	80	263.0	84.8	136.8	90	145.6	23	91.2	49	131	67	50	26.2
110	4	100	287.5	84.8	161.0	90	166.4	23	105.7	56	161	88	74	15.4
140	5	125	314.2	84.8	187.0	90	180.0	23	118.8	64	187	113	97	15.4
160	6	150	338.3	84.8	215.0	90	189.0	23	130.9	72	215	139	123	18.4
225	8	200	387.2	84.8	267.0	90	210.5	23	158.3	73	267	178	169	18.4
280	10	250	508.9	125.0	329.0	125	262.6	23	206.1	113	329	210	207	40.2
315	12	300	553.3	125.0	380.4	125	284.3	23	228.8	113	379	256	253	40.2
355	14	350	709.0	180.0	535.0	180	410.0	100	268.0	129	535	325	305	31.0

table continued on the next page







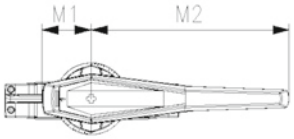


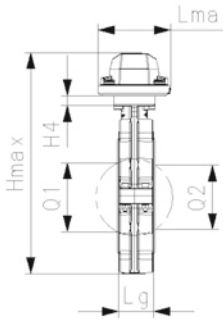
d (mm)	Size (inch)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)
400	16	400	766.0	180.0	595.0	180	435.0	100	300.0	169	595	353	350	31.0
450	18	450	875.0	220.0	635.0	220	520.0	130	320.0	179	635	393	390	35.0
500	20	500	935.0	220.0	700.0	220	550.0	130	350.0	190	700	444	440	35.0
630	24	600	1065.0	220.0	813.0	220	610.0	130	420.0	209	813	530	527	35.0

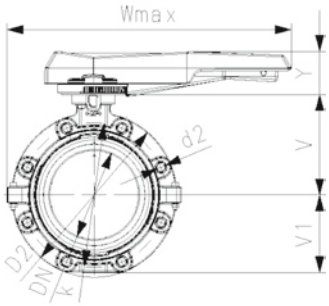
d (mm)	Size (inch)	DN (mm)	E (mm)	da1 (mm)
63	2	50	11	13.5
75	2 ½	65	11	13.5
90	3	80	11	13.5
110	4	100	14	17.3
140	5	125	14	17.3
160	6	150	17	21.1
225	8	200	17	21.1
280	10	250	22	27.0
315	12	300	22	27.0
355	14	350	22	28.5
400	16	400	27	36.0
450	18	450	27	36.0
500	20	500	27	36.0
630	24	600	36	45.0

Butterfly valves type 578









PROGEF Standard Lug-style end installation butterfly valve type 578
With hand lever
Flange standard metric

Model:

- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**167 578 002**	1.800	**167 578 022**	1.800
75	2 ½	65	10	1500	**167 578 003**	1.895	**167 578 023**	1.895
90	3	80	10	2400	**167 578 004**	2.251	**167 578 024**	2.251
110	4	100	10	3800	**167 578 005**	3.146	**167 578 025**	3.146
140	5	125	10	8600	**167 578 006**	4.660	**167 578 026**	4.660
160	6	150	10	11400	**167 578 007**	6.430	**167 578 027**	6.430
225	8	200	10	19900	**167 578 008**	8.625	**167 578 028**	8.625
280	10	250	6	34000	**167 578 009**	19.528	**167 578 029**	19.528
315	12	300	6	50000	**167 578 010**	26.106	**167 578 030**	26.106

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	M1 (mm)
63	278.9	115.2	287.8	90	133.9	23	78.8	44.7	160	40		M16	125	63.7
75	291.8	115.2	296.3	90	139.9	23	85.1	45.7	180	54	35	M16	145	63.7
90	303.6	115.2	310.3	90	145.6	23	91.2	48.7	195	67	50	M16	160	63.7
110	343.6	115.2	375.2	90	166.0	23	107.5	55.6	226	88	74	M16	180	63.7
140	372.8	115.2	391.2	90	180.0	23	122.7	63.5	258	113	97	M16	210	63.7
160	393.6	115.2	395.2	90	189.0	23	134.5	71.5	284	139	123	M20	240	63.7
225	458.1	149.4	588.1	90	210.5	23	161.5	72.5	341	178	169	M20	295	101.7
280	557.6	149.4	628.1	125	264.4	23	206.9	113.2	412	210	207	M20	350	101.7
315	607.0	149.4	663.1	125	285.2	23	235.5	114.6	482	256	253	M20	400	101.7

d (mm)	M2 (mm)
63	205.3
75	205.3
90	205.3
110	255.2
140	255.2
160	255.2
225	408.1
280	408.1
315	408.1



PROGEF Standard Lug-style end installation butterfly valve type 578
With gear box
Flange standard metric

Model:

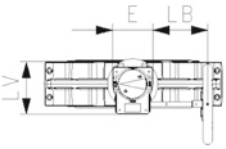
- Housing material: PP-GF30 with SS316 lug-inserts
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)

Option:

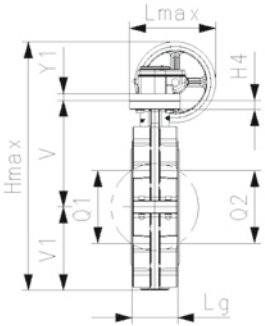
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

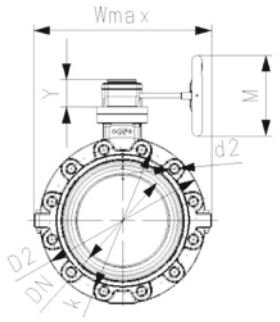
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**167 578 042**	3.447	**167 578 062**	3.447
75	2 ½	65	10	1500	**167 578 043**	3.585	**167 578 063**	3.585
90	3	80	10	2400	**167 578 044**	3.929	**167 578 064**	3.929
110	4	100	10	3800	**167 578 045**	4.834	**167 578 065**	4.834
140	5	125	10	8600	**167 578 046**	6.348	**167 578 066**	6.348
160	6	150	10	11400	**167 578 047**	8.109	**167 578 067**	8.109
225	8	200	10	19900	**167 578 048**	9.353	**167 578 068**	9.353
280	10	250	8	34000	**167 578 049**	21.210	**167 578 069**	21.210
315	12	300	8	50000	**167 578 050**	27.746	**167 578 070**	27.746



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	319.4	169.1	263.5	90	133.3	23	78.8	44.7	160	40		M16	125	61.2
75	332.3	169.1	272.0	90	139.9	23	85.1	45.7	180	54	35	M16	145	61.2
90	344.1	169.1	286.0	90	145.6	23	91.2	48.7	195	67	50	M16	160	61.2
110	380.8	169.1	301.0	90	166.0	23	107.5	55.6	226	88	74	M16	180	61.2
140	410.0	169.1	317.0	90	180.0	23	122.7	63.5	258	113	97	M16	210	61.2
160	430.8	169.1	321.0	90	189.0	23	134.5	71.5	284	139	123	M20	240	61.2
225	479.3	169.1	360.0	90	210.5	23	161.5	72.5	341	178	169	M20	295	61.2
280	615.6	212.6	440.0	125	264.4	23	206.9	113.2	412	210	207	M20	350	68.4
315	665.0	212.6	510.0	125	285.2	23	235.5	114.6	482	256	253	M20	400	68.4



d (mm)	E (mm)	Y1 (mm)	M (mm)	LV (mm)	LB (mm)
63	80		160	112.3	129.5
75	80		160	112.3	129.5
90	80		160	112.3	129.5
110	80		160	112.3	129.5
140	80		160	112.3	129.5
160	80		160	112.3	129.5
225	80		160	112.3	129.5
280	100	17.0	160	130.0	134.0
315	100	17.0	160	130.0	134.0



PROGEF Standard Lug-style end installation butterfly valve type 578
Bare Shaft
Flange standard metric

Model:

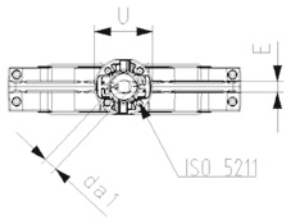
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Interface F07 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211

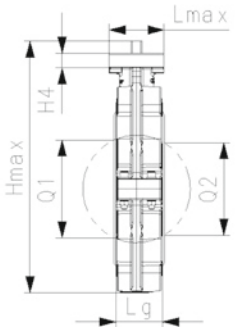
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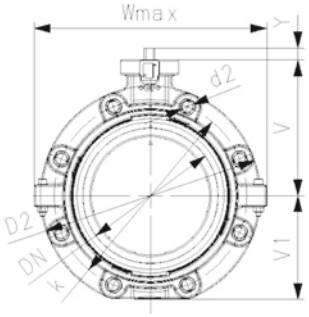
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**167 578 802**	1.299	**167 578 822**	1.299
75	2 ½	65	10	1500	**167 578 803**	1.456	**167 578 823**	1.456
90	3	80	10	2400	**167 578 804**	1.701	**167 578 824**	1.701
110	4	100	10	3800	**167 578 805**	2.606	**167 578 825**	2.606
140	5	125	10	8600	**167 578 806**	4.120	**167 578 826**	4.120
160	6	150	10	11400	**167 578 807**	5.881	**167 578 827**	5.881
225	8	200	10	19900	**167 578 808**	7.125	**167 578 828**	7.125
280	10	250	8	34000	**167 578 809**	17.880	**167 578 829**	17.880
315	12	300	8	50000	**167 578 810**	24.416	**167 578 830**	24.416

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	da1 (mm)
63	238.3	84.8	159.5	90	133.3	23	78.8	44.7	160	40		M16	125	13.5
75	251.2	84.8	166.1	90	139.9	23	85.1	45.7	180	54	35	M16	145	13.5
90	263.0	84.8	171.8	90	145.6	23	91.2	48.7	195	67	50	M16	160	13.5
110	288.9	84.8	181.4	90	166.0	23	107.5	55.6	226	88	74	M16	180	17.3
140	318.1	84.8	195.4	90	180.0	23	122.7	63.5	258	113	97	M16	210	17.3
160	341.9	84.8	207.4	90	189.0	23	134.5	71.5	284	139	123	M20	240	21.1
225	390.4	84.8	228.9	90	210.5	23	161.5	72.5	341	178	169	M20	295	21.1
280	511.5	125.0	304.6	125	264.4	23	206.9	113.2	412	210	207	M20	350	27.0
315	560.9	125.0	325.4	125	285.2	23	235.5	114.6	482	256	253	M20	400	27.0

Butterfly valves electric type 145



PROGEF Standard Wafer-style intermediate installation butterfly valve type 145
With electric actuator 230V
With manual override
Flange standard metric/ANSI/BS/JIS

Model:

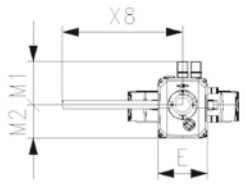
- Material: PP-H
- Voltage 100-230V, 50-60Hz
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

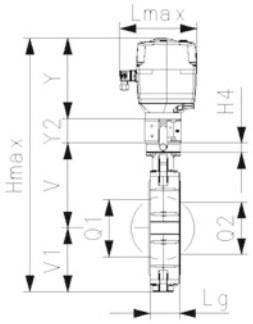
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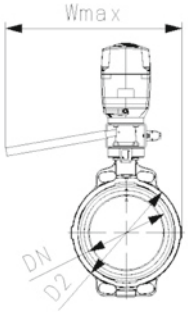
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







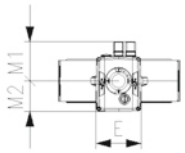
d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE Code
63	2	50	10	740	**199 145 322**	6.002	**199 145 842**
75	2 ½	65	10	1500	**199 145 323**	5.694	**199 145 843**
90	3	80	10	2400	**199 145 324**	5.822	**199 145 844**
110	4	100	10	3800	**199 145 325**	6.327	**199 145 845**
140	5	125	10	8600	**199 145 326**	7.174	**199 145 846**
160	6	150	10	11400	**199 145 327**	9.604	**199 145 847**
225	8	200	10	19900	**199 145 328**	13.271	**199 145 848**

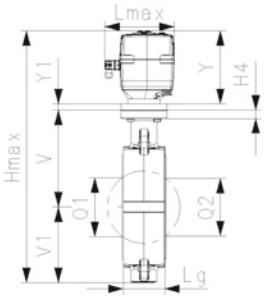
d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)	X8 (mm)
63	461.4	190	356.7	90	133.3	23	78.8	45	104	40		189.3	122.3	297.5
75	474.3	190	363.8	90	139.9	23	85.1	46	115	54	35	189.3	122.3	297.5
90	486.1	190	365.9	90	145.6	23	91.2	49	131	67	50	189.3	122.3	297.5
110	521.4	190	378.0	90	166.4	23	105.7	56	161	88	74	189.3	122.3	297.5
140	548.1	190	391.0	90	180.0	23	118.8	64	187	113	97	189.3	122.3	297.5
160	569.2	190	405.0	90	189.0	23	130.9	72	215	139	123	189.3	122.3	297.5
225	628.1	190	431.0	90	210.5	23	158.3	73	267	178	169	189.3	122.3	297.5

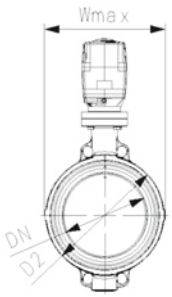
d (mm)	Y2 (mm)	M1 (mm)	M2 (mm)
63	60	107.3	82.7
75	60	107.3	82.7
90	60	107.3	82.7
110	60	107.3	82.7
140	60	107.3	82.7
160	60	107.3	82.7
225	60	107.3	82.7











PROGEF Standard Wafer-style intermediate installation butterfly valve type 145
With electric actuator 230V
Without manual override
Flange standard metric/ANSI/BS/JIS

Model:

- Material: PP-H, DN350-DN600 material PP-R
- Voltage 100-230V, 50-60Hz
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- *For DN350-DN600 electric actuator from **Auma** is equipped, various options available

Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

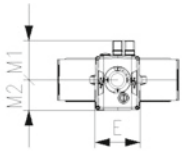
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

	d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE Code	FKM Code
	63	2	50	10	740	**199 145 362**	5.264	**199 145 802**	
	75	2 ½	65	10	1500	**199 145 363**	4.423	**199 145 803**	
	90	3	80	10	2400	**199 145 364**	4.548	**199 145 804**	
	110	4	100	10	3800	**199 145 365**	5.034	**199 145 805**	
	140	5	125	10	8600	**199 145 366**	5.271	**199 145 806**	
	160	6	150	10	11400	**199 145 367**	6.256	**199 145 807**	
	225	8	200	10	19900	**199 145 368**	9.656	**199 145 808**	
	280	10	250	6	34000	**199 145 369**	13.747	**199 145 809**	
	315	12	300	4	50000	**199 145 370**	16.722	**199 145 810**	
*	350	14	350	6	90000	**199 140 371**	46.180	**199 145 811**	**199 140 391**
*	400	16	400	6	115000	**199 140 372**	63.800	**199 145 812**	**199 140 392**
*	450	18	450	5	155000	**199 140 373**	78.800	**199 145 813**	**199 140 393**
*	500	20	500	4	204000	**199 140 374**	96.200	**199 145 814**	**199 140 394**
*	630	24	600	4	265000	**199 140 375**	153.000	**199 145 815**	**199 140 395**

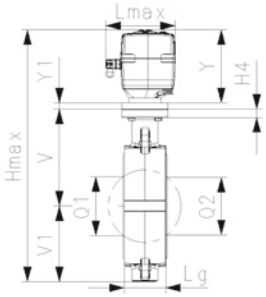
	d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)
	63	393.3	190	118.4	90	133.3	23	78.8	45	104	40		166.2	122.3
	75	406.2	190	132.5	90	139.9	23	85.1	46	115	54	35	166.2	122.3
	90	426.1	190	136.8	90	145.6	23	91.2	49	131	67	50	189.3	122.3
	110	461.4	190	161.0	90	166.4	23	105.7	56	161	88	74	189.3	122.3
	140	488.1	190	187.0	90	180.0	23	118.8	64	187	113	97	189.3	122.3
	160	509.2	190	215.0	90	189.0	23	130.9	72	215	139	123	189.3	122.3
	225	568.1	190	267.0	90	210.5	23	158.3	73	267	178	169	199.3	122.3
	280	685.0	190	329.0	125	262.6	23	206.1	113	329	210	207	199.3	122.3
	315	729.4	190	380.4	125	284.3	23	228.8	113	379	256	253	199.3	122.3
*	350	1036.0	328	535.0	180	410.0	100	268.0	129	535	325	305	361.0	455.0
*	400	1096.0	328	595.0	180	435.0	100	300.0	169	595	353	350	361.0	455.0
*	450	1225.0	352	635.0	220	520.0	130	320.0	179	635	393	390	385.0	455.0
*	500	1285.0	352	700.0	220	550.0	130	350.0	190	700	444	440	385.0	455.0
*	630	1450.0	360	813.0	220	610.0	130	420.0	209	813	530	527	420.0	455.0

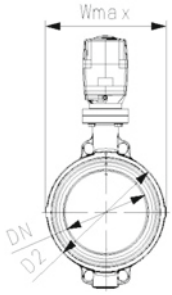
	d (mm)	Y1 (mm)	M1 (mm)	M2 (mm)
	63	15	107.3	82.7
	75	15	107.3	82.7
	90		107.3	82.7
	110		107.3	82.7
	140		107.3	82.7
	160		107.3	82.7
	225		107.3	82.7

table continued on the next page



	d (mm)	Y1 (mm)	M1 (mm)	M2 (mm)
	280	17	107.3	82.7
	315	17	107.3	82.7
*	350		266.0	189.0
*	400		266.0	189.0
*	450		266.0	189.0
*	500		266.0	189.0
*	630		266.0	189.0







PROGEF Standard Wafer-style intermediate installation butterfly valve type 145
With electric actuator 24V
With manual override
Flange standard metric/ANSI/BS/JIS

Model:

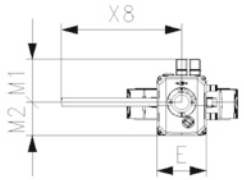
- Material: PP-H
- Voltage 24V AC/DC
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

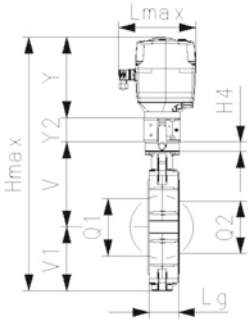
Option:

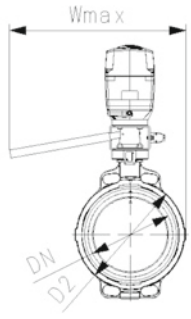
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE Code
63	2	50	10	740	**199 145 402**	5.603	**199 145 862**
75	2 ½	65	10	1500	**199 145 403**	5.694	**199 145 863**
90	3	80	10	2400	**199 145 404**	5.822	**199 145 864**
110	4	100	10	3800	**199 145 405**	6.327	**199 145 865**
140	5	125	10	8600	**199 145 406**	6.771	**199 145 866**
160	6	150	10	11400	**199 145 407**	7.556	**199 145 867**
225	8	200	10	19900	**199 145 408**	13.271	**199 145 868**

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)	X8 (mm)
63	461.4	190	356.7	90	133.3	23	78.8	45	104	40		189.3	122.3	297.5
75	474.3	190	363.8	90	139.9	23	85.1	46	115	54	35	189.3	122.3	297.5
90	486.1	190	365.9	90	145.6	23	91.2	49	131	67	50	189.3	122.3	297.5
110	521.4	190	378.0	90	166.4	23	105.7	56	161	88	74	189.3	122.3	297.5
140	548.1	190	391.0	90	180.0	23	118.8	64	187	113	97	189.3	122.3	297.5
160	569.2	190	405.0	90	189.0	23	130.9	72	215	139	123	189.3	122.3	297.5
225	628.1	190	431.0	90	210.5	23	158.3	73	267	178	169	199.3	122.3	297.5

d (mm)	Y2 (mm)	M1 (mm)	M2 (mm)
63	60	107.3	82.7
75	60	107.3	82.7
90	60	107.3	82.7
110	60	107.3	82.7
140	60	107.3	82.7
160	60	107.3	82.7
225	60	107.3	82.7



PROGEF Standard Wafer-style intermediate installation butterfly valve type 145
With electric actuator 24V
Without manual override
Flange standard metric/ANSI/BS/JIS

Model:

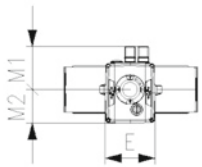
- Material: PP-H
- Voltage 24V AC/DC
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

Option:

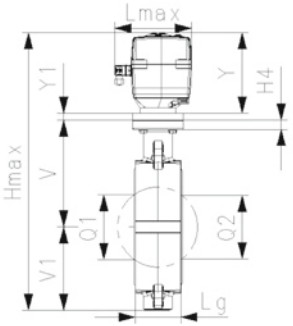
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

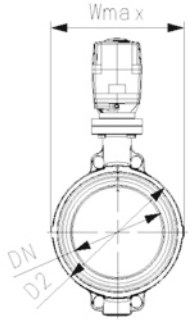
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE Code
63	2	50	10	740	**199 145 442**	4.314	**199 145 822**
75	2 ½	65	10	1500	**199 145 443**	4.194	**199 145 823**
90	3	80	10	2400	**199 145 444**	4.529	**199 145 824**
110	4	100	10	3800	**199 145 445**	5.017	**199 145 825**
140	5	125	10	8600	**199 145 446**	5.271	**199 145 826**
160	6	150	10	11400	**199 145 447**	6.056	**199 145 827**
225	8	200	10	19900	**199 145 448**	11.771	**199 145 828**
280	10	250	6	34000	**199 145 449**	13.747	**199 145 829**
315	12	300	4	50000	**199 145 450**	16.722	**199 145 830**



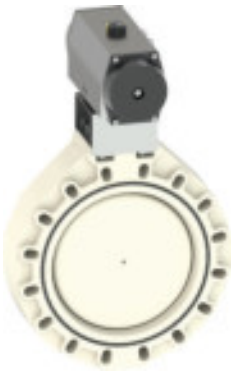
d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)	Y1 (mm)
63	393.3	190	118.4	90	133.3	23	78.8	45	104	40		166.2	122.3	15
75	406.2	190	132.5	90	139.9	23	85.1	46	115	54	35	166.2	122.3	15
90	426.1	190	136.8	90	145.6	23	91.2	49	131	67	50	189.3	122.3	
110	461.4	190	161.0	90	166.4	23	105.7	56	161	88	74	189.3	122.3	
140	488.1	190	187.0	90	180.0	23	118.8	64	187	113	97	189.3	122.3	
160	509.2	190	215.0	90	189.0	23	130.9	72	215	139	123	189.3	122.3	
225	568.1	190	267.0	90	210.5	23	158.3	73	267	178	169	199.3	122.3	
280	685.0	190	329.0	125	262.6	23	206.1	113	329	210	207	199.3	122.3	17
315	729.4	190	380.4	125	284.3	23	228.8	113	379	256	253	199.3	122.3	17

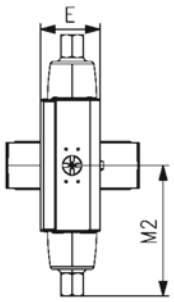


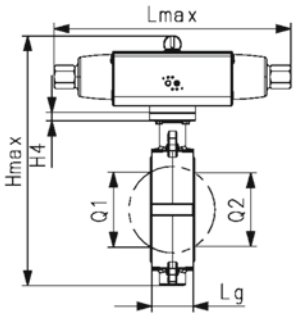
d (mm)	M1 (mm)	M2 (mm)
63	107.3	82.7
75	107.3	82.7
90	107.3	82.7
110	107.3	82.7
140	107.3	82.7
160	107.3	82.7
225	107.3	82.7
280	107.3	82.7
315	107.3	82.7

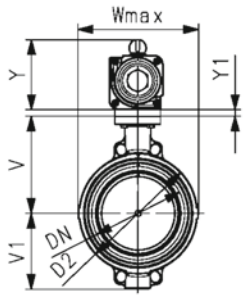
Butterfly valves pneumatic type 240











PROGEF Standard Wafer-style intermediate installation butterfly valve type 240
With pneumatic actuator - fail safe to close (FC)
Without manual override
Flange standard metric/ANSI/BS/JIS

Model:

- Material: PP-H, DN350-DN600 material PP-R
- Control range 90°<)
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- For DN350-DN600 pneumatic actuator supplied by airpower „twintorque®"

Note:

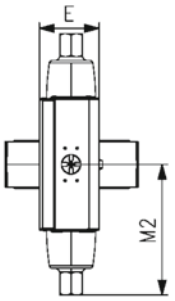
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

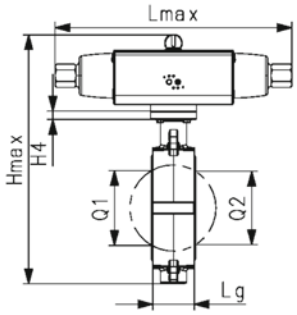
	d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
	63	2	50	10	740	**199 240 282**	2.909	**199 240 302**	3.147
	75	2 ½	65	10	1500	**199 240 283**	2.999	**199 240 303**	3.007
	90	3	80	10	2400	**199 240 284**	3.787	**199 240 304**	3.369
	110	4	100	10	3800	**199 240 285**	4.996	**199 240 305**	5.079
	140	5	125	10	8600	**199 240 286**	6.790	**199 240 306**	6.529
	160	6	150	10	11400	**199 240 287**	9.533	**199 240 307**	9.640
	225	8	200	10	19900	**199 240 288**	13.430	**199 240 308**	9.951
	280	10	250	8	34000	**199 240 289**	26.888	**199 240 309**	26.888
	315	12	300	5	50000	**199 240 290**	33.459	**199 240 310**	33.459
*	350	14	350	6	90000	**199 240 291**	40.600	**199 240 311**	40.600
*	400	16	400	6	115000	**199 240 292**	62.100	**199 240 312**	62.100
*	450	18	450	5	155000	**199 240 293**	77.100	**199 240 313**	77.100
*	500	20	500	4	204000	**199 240 294**	92.100	**199 240 314**	92.100
*	630	24	600	4	265000	**199 240 295**	127.100	**199 240 315**	127.100

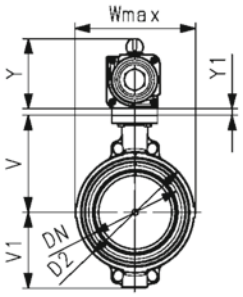
	d (mm)	PTFE Code	Weight (kg)
	63	**199 240 702**	3.218
	75	**199 240 703**	3.341
	90	**199 240 704**	3.524
	110	**199 240 705**	5.271
	140	**199 240 706**	7.169
	160	**199 240 707**	9.533
	225	**199 240 708**	13.430
	280	**199 240 709**	26.888
	315	**199 240 710**	33.459
*	350	**199 240 711**	40.600
*	400	**199 240 712**	62.100
*	450	**199 240 713**	77.100
*	500	**199 240 714**	92.100
*	630	**199 240 715**	127.100

	d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)
	63	325.3	274.4	118.4	90	133.3	23	78.8	45	104	40		98.2	70.4
	75	338.2	274.4	132.5	90	139.9	23	85.1	46	115	54	35	98.2	70.4
	90	362.9	325.2	136.8	90	145.6	23	91.2	49	131	67	50	111.1	83.3
	110	386.9	359.6	161.0	90	166.4	23	105.7	56	161	88	74	114.8	87.0
	140	448.3	418.0	187.0	90	180.0	23	118.8	64	187	113	97	149.5	107.5
	160	473.0	434.0	215.0	90	189.0	23	130.9	72	215	139	123	153.1	111.1
	225	528.8	498.4	267.0	90	210.5	23	158.3	73	267	178	169	160.0	118.0
	280	676.9	646.0	329.0	125	262.6	23	206.1	113	329	210	207	190.0	148.0
	315	741.4	681.0	380.4	125	284.3	23	228.8	113	379	256	253	210.1	168.0

table continued on the next page





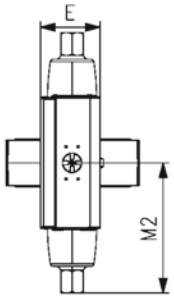


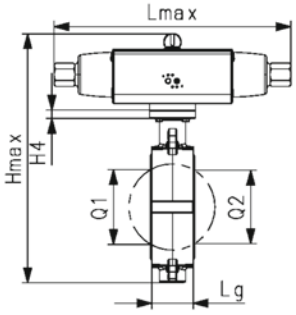
	d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)
*	350	887.0	390.0	535.0	180	410.0	100	268.0	129	535	325	305	209.0	153.0
*	400	972.0	458.0	595.0	180	435.0	100	300.0	169	595	353	350	234.0	176.0
*	450	1077.0	458.0	635.0	220	520.0	130	320.0	179	635	393	390	234.0	176.0
*	500	1173.0	525.0	700.0	220	550.0	130	350.0	190	700	444	440	270.0	206.0
*	630	1303.0	525.0	813.0	220	610.0	130	420.0	209	813	530	527	270.0	206.0

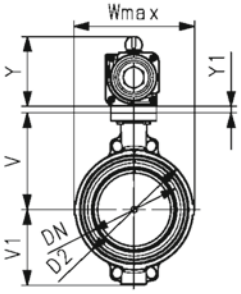
	d (mm)	Y1 (mm)	M2 (mm)
	63	15.0	137.2
	75	15.0	137.2
	90	15.0	162.6
	110		179.8
	140		209.0
	160		217.0
	225		249.2
	280	18.2	323.0
	315	18.2	340.5
*	350		195.0
*	400		326.0
*	450		326.0
*	500		263.0
*	630		263.0











PROGEF Standard Wafer-style intermediate installation butterfly valve type 240
With pneumatic actuator - fail safe to open (FO)
Without manual override
Flange standard metric/ANSI/BS/JIS

Model:

- Material: PP-H
- Control range 90°<)
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- For DN350-DN600 pneumatic actuator supplied by airpower „twintorque®“

Note:

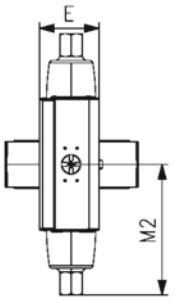
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

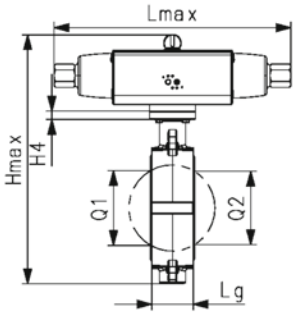
	d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
	63	2	50	10	740	**199 240 322**	3.143	**199 240 342**	3.147
	75	2 ½	65	10	1500	**199 240 323**	3.234	**199 240 343**	3.239
	90	3	80	10	2400	**199 240 324**	3.362	**199 240 344**	3.369
	110	4	100	10	3800	**199 240 325**	4.988	**199 240 345**	5.079
	140	5	125	10	8600	**199 240 326**	6.511	**199 240 346**	6.529
	160	6	150	10	11400	**199 240 327**	9.617	**199 240 347**	9.640
	225	8	200	10	19900	**199 240 328**	13.271	**199 240 348**	13.299
	280	10	250	8	34000	**199 240 329**	30.484	**199 240 349**	30.484
	315	12	300	5	50000	**199 240 330**	33.459	**199 240 350**	33.459
*	350	14	350	6	90000	**199 240 331**	40.600	**199 240 351**	40.600
*	400	16	400	6	115000	**199 240 332**	62.100	**199 240 352**	62.100
*	450	18	450	5	155000	**199 240 333**	77.100	**199 240 353**	77.100
*	500	20	500	4	204000	**199 240 334**	92.100	**199 240 354**	92.100
*	630	24	600	4	265000	**199 240 335**	127.100	**199 240 355**	127.100

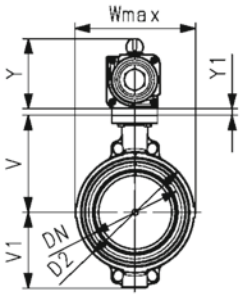
	d (mm)	PTFE Code	Weight (kg)
	63	**199 240 722**	3.218
	75	**199 240 723**	3.352
	90	**199 240 724**	3.531
	110	**199 240 725**	5.371
	140	**199 240 726**	5.943
	160	**199 240 727**	9.617
	225	**199 240 728**	13.271
	280	**199 240 729**	30.484
	315	**199 240 730**	33.459
*	350	**199 240 731**	40.600
*	400	**199 240 732**	3.439
*	450	**199 240 733**	3.341
*	500	**199 240 734**	3.524
*	630	**199 240 735**	5.357

	d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)
	63	325.3	274.4	118.4	90	133.3	23	78.8	45	104	40		98.2	70.4
	75	338.2	274.4	132.5	90	139.9	23	85.1	46	115	54	35	98.2	70.4
	90	362.9	325.2	136.8	90	145.6	23	91.2	49	131	67	50	111.1	83.3
	110	386.9	359.6	161.0	90	166.4	23	105.7	56	161	88	74	114.8	87.0
	140	448.3	418.0	187.0	90	180.0	23	118.8	64	187	113	97	149.5	107.5
	160	473.0	434.0	215.0	90	189.0	23	130.9	72	215	139	123	153.1	111.1
	225	528.8	498.4	267.0	90	210.5	23	158.3	73	267	178	169	160.0	118.0
	280	676.9	646.0	329.0	125	262.6	23	206.1	113	329	210	207	190.0	148.0
	315	741.4	681.0	380.4	125	284.3	23	228.8	113	379	256	253	210.1	168.0
*	350	887.0	390.0	535.0	180	410.0	100	268.0	129	535	325	305	209.0	153.0

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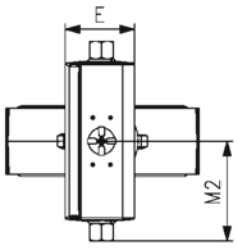


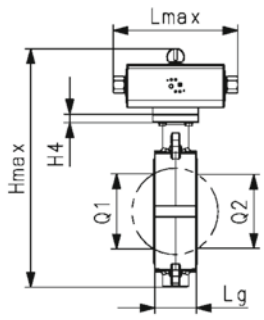
	d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)
*	400	972.0	458.0	595.0	180	435.0	100	300.0	169	595	353	350	234.0	176.0
*	450	1077.0	458.0	635.0	220	520.0	130	320.0	179	635	393	390	234.0	176.0
*	500	1173.0	525.0	700.0	220	550.0	130	350.0	190	700	444	440	270.0	206.0
*	630	1303.0	525.0	813.0	220	610.0	130	420.0	209	813	530	527	270.0	206.0

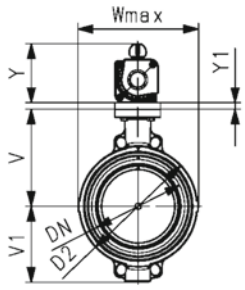
	d (mm)	Y1 (mm)	M2 (mm)
	63	15.0	137.2
	75	15.0	137.2
	90	15.0	162.6
	110		179.8
	140		209.0
	160		217.0
	225		249.2
	280	18.2	323.0
	315	18.2	340.5
*	350		195.0
*	400		326.0
*	450		326.0
*	500		263.0
*	630		263.0











PROGEF Standard Wafer-style intermediate installation butterfly valve type 240
With pneumatic actuator - double acting (DA)
Without manual override
Flange standard metric/ANSI/BS/JIS

Model:

- Material: PP-H, DN350-DN600 material PP-R
- Control range 90°<)
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- For DN350-DN600 pneumatic actuator supplied by airpower „twintorque®“

Note:

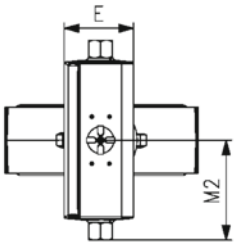
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

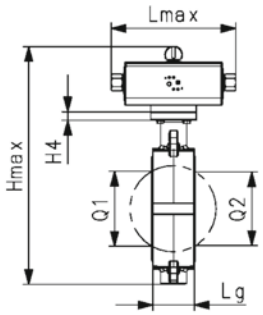
	d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
	63	2	50	10	740	**199 240 362**	2.227	**199 240 382**	2.243
	75	2 ½	65	10	1500	**199 240 363**	2.084	**199 240 383**	2.089
	90	3	80	10	2400	**199 240 364**	2.728	**199 240 384**	2.748
	110	4	100	10	3800	**199 240 365**	3.542	**199 240 385**	3.331
	140	5	125	10	8600	**199 240 366**	3.967	**199 240 386**	3.779
	160	6	150	10	11400	**199 240 367**	6.096	**199 240 387**	6.575
	225	8	200	10	19900	**199 240 368**	7.271	**199 240 388**	7.299
	280	10	250	8	34000	**199 240 369**	18.188	**199 240 389**	18.188
	315	12	300	5	50000	**199 240 370**	24.263	**199 240 390**	24.263
*	400	16	400	6	115000	**199 240 372**	62.100	**199 240 392**	62.100
*	450	18	450	5	155000	**199 240 373**	77.100	**199 240 393**	77.100
*	500	20	500	4	204000	**199 240 374**	92.100	**199 240 394**	92.100
*	630	24	600	4	265000	**199 240 375**	127.100	**199 240 395**	127.100
*	350	14	350	6	90000	**199 240 371**	40.600	**199 240 391**	40.600

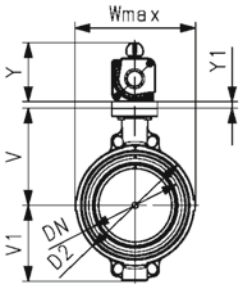
	d (mm)	PTFE Code	Weight (kg)
	63	**199 240 742**	3.443
	75	**199 240 743**	3.352
	90	**199 240 744**	3.531
	110	**199 240 745**	5.371
	140	**199 240 746**	7.187
	160	**199 240 747**	6.096
	225	**199 240 748**	7.271
	280	**199 240 749**	18.188
	315	**199 240 750**	24.263
*	400	**199 240 752**	5.184
*	450	**199 240 753**	2.191
*	500	**199 240 754**	2.884
*	630	**199 240 755**	3.609
*	350	**199 240 751**	40.600

	d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)
	63	319.4	196.2	118.4	90	133.3	23	78.8	45	104	40		92.3	64.5
	75	332.3	196.2	132.5	90	139.9	23	85.1	46	115	54	35	92.3	64.5
	90	350.0	205.6	136.8	90	145.6	23	91.2	49	131	67	50	98.2	70.4
	110	383.3	242.0	161.0	90	166.4	23	105.7	56	161	88	74	111.2	83.3
	140	410.0	242.0	187.0	90	180.0	23	118.8	64	187	113	97	111.2	83.3
	160	469.4	290.0	215.0	90	189.0	23	130.9	72	215	139	123	149.5	107.5
	225	518.3	290.0	267.0	90	210.5	23	158.3	73	267	178	169	149.5	107.5
	280	546.9	339.6	329.0	125	262.6	23	206.1	113	329	210	207	160.0	118.0
	315	691.3	339.6	380.4	125	284.3	23	228.8	113	379	256	253	160.0	118.0
*	400	972.0	458.0	595.0	180	435.0	100	300.0	169	595	353	350	234.0	176.0

table continued on the next page







	d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)
*	450	1077.0	458.0	635.0	220	520.0	130	320.0	179	635	393	390	234.0	176.0
*	500	1173.0	525.0	700.0	220	550.0	130	350.0	190	700	444	440	270.0	206.0
*	630	1303.0	525.0	813.0	220	610.0	130	420.0	209	813	530	527	270.0	206.0
*	350	887.0	390.0	535.0	180	410.0	100	268.0	129	535	325	305	209.0	153.0

	d (mm)	Y1 (mm)	M2 (mm)
	63	15.0	98.1
	75	15.0	98.1
	90	15.0	102.8
	110		121.0
	140		121.0
	160		145.0
	225		145.0
	280	18.2	169.8
	315	18.2	169.8
*	400		326.0
*	450		326.0
*	500		263.0
*	630		263.0
*	350		195.0



Wafer-style intermediate installation butterfly valve type 240 PVC-U
FC (Fail safe to close)
Flange standard metric/ANSI/BS/JIS

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

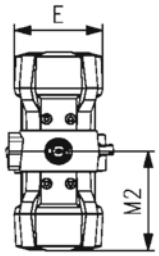
Option:

- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

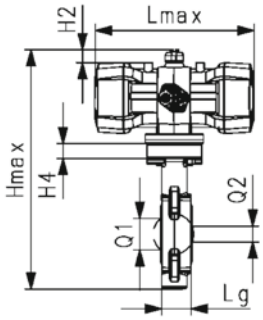
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

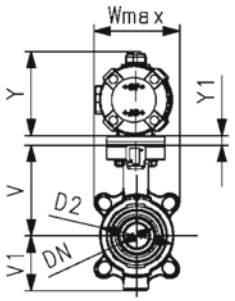
d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 240 602**	1	2.976	**199 240 622**	1	3.222
75	2 ½	65	10	**199 240 603**	1	3.086	**199 240 623**	1	3.075
90	3	80	10	**199 240 604**	1	3.486	**199 240 624**	1	3.938
110	4	100	10	**199 240 605**	1	5.224	**199 240 625**	1	5.263
140	5	125	10	**199 240 606**	1	7.127	**199 240 626**	1	6.884



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)	Y1 (mm)
63	338.1	245.5	121.2	90	133.3	23	78.8	45	104	40		111	119.5	15
75	351.0	245.5	132.5	90	139.9	23	85.1	46	115	54	35	111	119.5	15
90	382.8	343.0	136.8	90	145.6	23	91.2	49	131	67	50	131	141.5	15
110	403.1	343.0	161.0	90	166.4	23	105.7	56	161	88	74	131	141.5	
140	429.8	343.0	187.0	90	180.0	23	118.8	64	187	113	97	131	141.5	



d (mm)	M2 (mm)
63	122.75
75	122.75
90	171.50
110	171.50
140	171.50





Wafer-style intermediate installation butterfly valve type 240 PVC-U
FO (Fail safe to open)
Flange standard metric/ANSI/BS/JIS

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

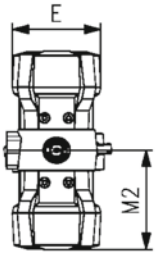
Option:

- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

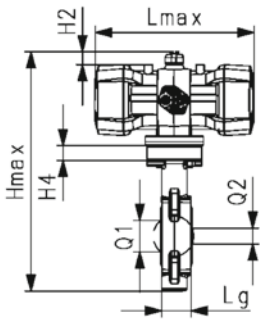
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

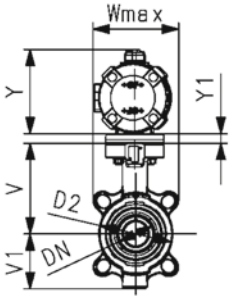
d (mm)	Size (inch)	DN (mm)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	**199 240 632**	1	3.218	**199 240 132**	1	3.222
75	2 ½	65	**199 240 633**	1	3.321	**199 240 133**	1	3.326
90	3	80	**199 240 634**	1	3.920	**199 240 134**	1	3.493
110	4	100	**199 240 635**	1	5.219	**199 240 135**	1	5.266
140	5	125	**199 240 636**	1	6.866	**199 240 136**	1	6.884



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)	Y1 (mm)
63	338.1	245.5	121.2	90	133.3	23	78.8	45	104	40		111	119.5	15
75	351.0	245.5	132.5	90	139.9	23	85.1	46	115	54	35	111	119.5	15
90	382.8	343.0	136.8	90	145.6	23	91.2	49	131	67	50	131	141.5	15
110	403.1	343.0	161.0	90	166.4	23	105.7	56	161	88	74	131	141.5	
140	429.8	343.0	187.0	90	180.0	23	118.8	64	187	113	97	131	141.5	



d (mm)	M2 (mm)
63	122.75
75	122.75
90	171.50
110	171.50
140	171.50





Wafer-style intermediate installation butterfly valve type 240 PVC-U
DA (Double acting)
Flange standard metric/ANSI/BS/JIS

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

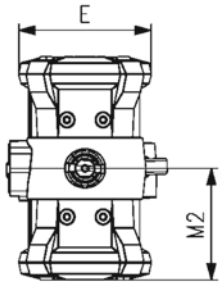
Option:

- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

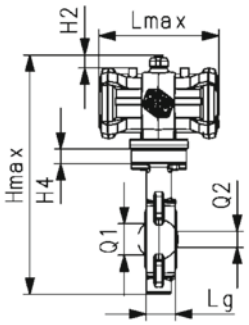
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

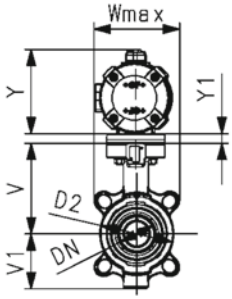
d (mm)	Size (inch)	DN (mm)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	**199 240 652**	1	2.936	**199 240 172**	1	2.072
75	2 ½	65	**199 240 653**	1	2.402	**199 240 173**	1	2.176
90	3	80	**199 240 654**	1	3.330	**199 240 174**	1	2.824
110	4	100	**199 240 655**	1	3.765	**199 240 175**	1	3.563
140	5	125	**199 240 656**	1	4.341	**199 240 176**	1	4.384



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)	Y1 (mm)
63	338.1	183.5	121.2	90	133.3	23	78.8	45	104	40		111	119.5	15
75	351.0	183.5	132.5	90	139.9	23	85.1	46	115	54	35	111	119.5	15
90	362.8	183.5	136.8	90	145.6	23	91.2	49	131	67	50	111	119.5	15
110	403.1	261.0	161.0	90	166.4	23	105.7	56	161	88	74	131	141.5	
140	429.8	261.0	187.0	90	180.0	23	118.8	64	187	113	97	131	141.5	



d (mm)	M2 (mm)
63	91.75
75	91.75
90	91.75
110	130.50
140	130.50





Wafer-style intermediate installation butterfly valve type 240 PVC-C FC (Fail safe to close) Flange standard metric/ANSI/BS/JIS

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

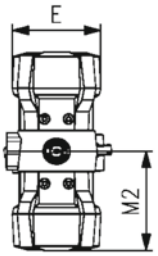
Option:

- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

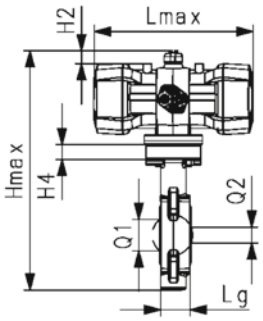
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

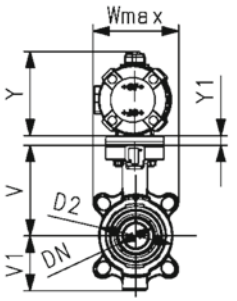
d (mm)	Size (inch)	DN (mm)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	**199 240 992**	1	3.218	**199 240 982**	1	3.218
75	2 ½	65	**199 240 993**	1	3.341	**199 240 983**	1	3.352
90	3	80	**199 240 994**	1	3.524	**199 240 984**	1	3.531
110	4	100	**199 240 995**	1	5.271	**199 240 985**	1	5.371
140	5	125	**199 240 996**	1	7.169	**199 240 986**	1	5.943



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)	Y1 (mm)
63	338.1	245.5	121.2	90	133.3	23	78.8	45	104	40		111	119.5	15
75	351.0	245.5	132.5	90	139.9	23	85.1	46	115	54	35	111	119.5	15
90	382.8	343.0	136.8	90	145.6	23	91.2	49	131	67	50	131	141.5	15
110	403.1	343.0	161.0	90	166.4	23	105.7	56	161	88	74	131	141.5	
140	429.8	343.0	187.0	90	180.0	23	118.8	64	187	113	97	131	141.5	



d (mm)	M2 (mm)
63	122.75
75	122.75
90	171.50
110	171.50
140	171.50





Wafer-style intermediate installation butterfly valve type 240 PVC-C
DA (Double acting)
Flange standard metric/ANSI/BS/JIS

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

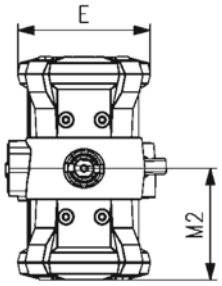
Option:

- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

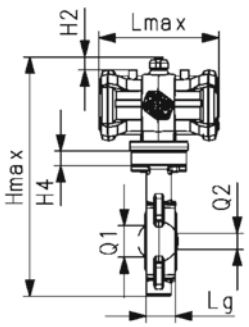
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

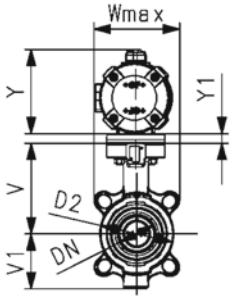
d (mm)	Size (inch)	DN (mm)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	**199 240 032**	1	5.184	**199 240 762**	1	2.293
75	2 ½	65	**199 240 033**	1	2.191	**199 240 763**	1	2.202
90	3	80	**199 240 034**	1	2.884	**199 240 764**	1	2.862
110	4	100	**199 240 035**	1	3.609	**199 240 765**	1	3.623
140	5	125	**199 240 036**	1	4.419	**199 240 766**	1	4.500



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)	Y1 (mm)
63	338.1	183.5	121.2	90	133.3	23	78.8	45	104	40		111	119.5	15
75	351.0	183.5	132.5	90	139.9	23	85.1	46	115	54	35	111	119.5	15
90	362.8	183.5	136.8	90	145.6	23	91.2	49	131	67	50	111	119.5	15
110	403.1	261.0	161.0	90	166.4	23	105.7	56	161	88	74	131	141.5	
140	429.8	261.0	187.0	90	180.0	23	118.8	64	187	113	97	131	141.5	



d (mm)	M2 (mm)
63	91.75
75	91.75
90	91.75
110	130.50
140	130.50





Wafer-style intermediate installation butterfly valve type 240 PVC-C FO (Fail safe to open) Flange standard metric/ANSI/BS/JIS

Model:

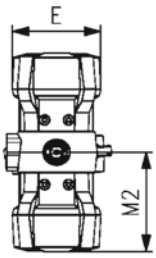
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

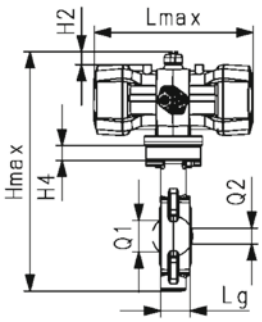
Option:

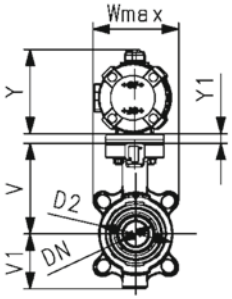
- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	**199 240 142**	1	3.439	**199 240 152**	1	3.443
75	2 ½	65	**199 240 143**	1	3.341	**199 240 153**	1	3.352
90	3	80	**199 240 144**	1	3.524	**199 240 154**	1	3.531
110	4	100	**199 240 145**	1	5.357	**199 240 155**	1	5.371
140	5	125	**199 240 146**	1	7.169	**199 240 156**	1	7.187

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)	Y1 (mm)
63	338.1	245.5	121.2	90	133.3	23	78.8	45	104	40		111	119.5	15
75	351.0	245.5	132.5	90	139.9	23	85.1	46	115	54	35	111	119.5	15
90	382.8	343.0	136.8	90	145.6	23	91.2	49	131	67	50	131	141.5	15
110	403.1	343.0	161.0	90	166.4	23	105.7	56	161	88	74	131	141.5	
140	429.8	343.0	187.0	90	180.0	23	118.8	64	187	113	97	131	141.5	

d (mm)	M2 (mm)
63	122.75
75	122.75
90	171.50
110	171.50
140	171.50



Wafer-style intermediate installation butterfly valve type 240 ABS
FC (Fail safe to close)
Flange standard metric

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

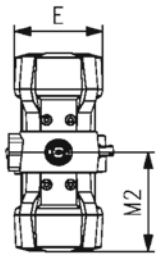
Option:

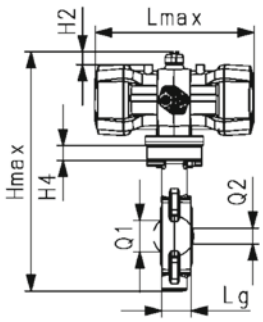
- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

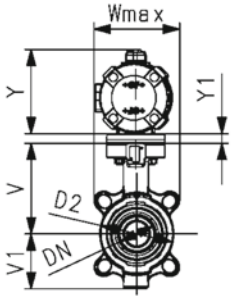
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	EPDM Code	SP	Weight (kg)
63	2	50	**199 240 920**	1	3.371
75	2 ½	65	**199 240 921**	1	3.100
90	3	80	**199 240 922**	1	3.399
110	4	100	**199 240 923**	1	5.133
140	5	125	**199 240 924**	1	6.826







d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	k (mm)	Y (mm)	E (mm)
63	338.1	245.5	118.4	90	133.3	23	78.8	45	104	40		125	111	119.5
75	351.0	245.5	132.5	90	139.9	23	85.1	46	115	54	35	145	111	119.5
90	382.8	343.0	136.8	90	145.6	23	91.2	49	131	67	50	160	131	141.5
110	403.1	343.0	161.0	90	166.4	23	105.7	56	161	88	74	180	131	141.5
140	429.8	343.0	187.0	90	180.0	23	118.8	64	187	113	97	210	131	141.5

d (mm)	Y1 (mm)	M2 (mm)
63	15	122.75
75	15	122.75
90	15	171.50
110		171.50
140		171.50



Wafer-style intermediate installation butterfly valve type 240 ABS
DA (Double acting)
Flange standard metric

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

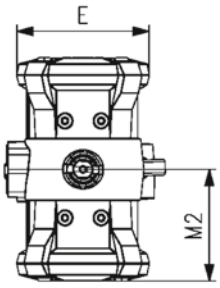
Option:

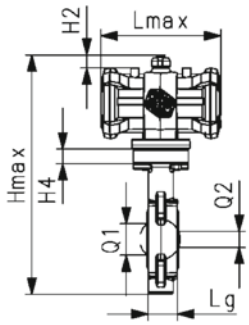
- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

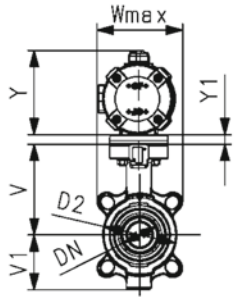
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	EPDM Code	SP	Weight (kg)
63	2	50	**199 240 072**	1	2.221
75	2 ½	65	**199 240 073**	1	2.317
90	3	80	**199 240 074**	1	2.730
110	4	100	**199 240 075**	1	3.385
140	5	125	**199 240 076**	1	4.076







d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	k (mm)	Y (mm)	E (mm)
63	338.1	183.5	118.4	90	133.3	23	78.8	45	104	40	0	125	111	119.5
75	351.0	183.5	132.5	90	139.9	23	85.1	46	115	54	35	145	111	119.5
90	362.8	183.5	136.8	90	145.6	23	91.2	49	131	67	50	160	111	119.5
110	403.1	261.0	161.0	90	166.4	23	105.7	56	161	88	74	180	131	141.5
140	429.8	261.0	187.0	90	180.0	23	118.8	64	187	113	97	210	131	141.5

d (mm)	Y1 (mm)	M2 (mm)
63	15	91.75
75	15	91.75
90	15	91.75
110		130.50
140		130.50



Wafer-style intermediate installation butterfly valve type 240 ABS
FO (Fail safe to open)
Flange standard metric

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

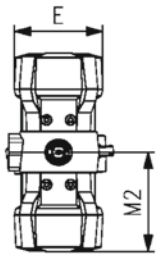
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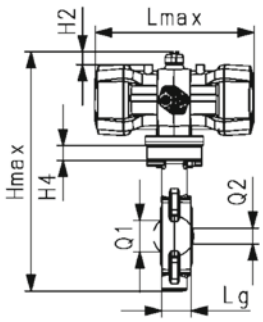
- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

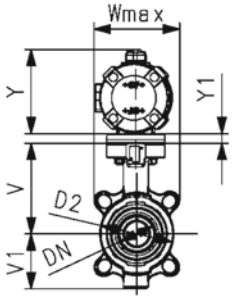
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	EPDM Code	SP	Weight (kg)
63	2	50	**199 240 930**	1	3.371
75	2 ½	65	**199 240 931**	1	3.467
90	3	80	**199 240 932**	1	3.399
110	4	100	**199 240 933**	1	5.133
140	5	125	**199 240 934**	1	6.826







d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	k (mm)	Y (mm)	E (mm)
63	338.1	245.5	118.4	90	133.3	23	78.8	45	104	40		125	111	119.5
75	351.0	245.5	132.5	90	139.9	23	85.1	46	115	54	35	145	111	119.5
90	382.8	343.0	136.8	90	145.6	23	91.2	49	131	67	50	160	131	141.5
110	403.1	343.0	161.0	90	166.4	23	105.7	56	161	88	74	180	131	141.5
140	429.8	343.0	187.0	90	180.0	23	118.8	64	187	113	97	210	131	141.5

d (mm)	Y1 (mm)	M2 (mm)
63	15	122.75
75	15	122.75
90	15	171.50
110		171.50
140		171.50



SYGEF Standard Wafer-style intermediate installation butterfly valve type 240 FC (Fail safe to close) Flange standard metric

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

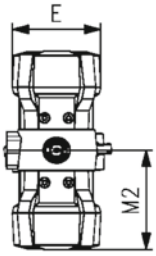
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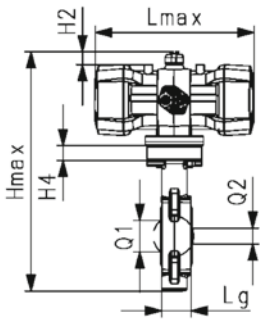
- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

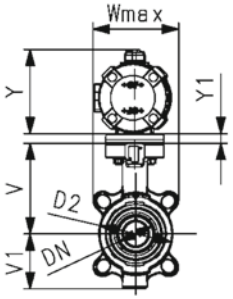
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	FKM Code	SP	Weight (kg)
63	2	50	**199 240 925**	1	3.758
75	2 ½	65	**199 240 926**	1	3.173
90	3	80	**199 240 927**	1	3.550
110	4	100	**199 240 928**	1	5.439
140	5	125	**199 240 929**	1	6.997







d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)	Y1 (mm)
63	338.1	245.5	118.4	90	133.3	23	78.8	45	104	40	0	111	119.5	15
75	351.0	245.5	132.5	90	139.9	23	85.1	46	115	54	35	111	119.5	15
90	382.8	343.0	136.8	90	145.6	23	91.2	49	131	67	50	131	141.5	15
110	403.1	343.0	161.0	90	166.4	23	105.7	56	161	88	74	131	141.5	
140	429.8	343.0	187.0	90	180.0	23	118.8	64	187	113	97	131	141.5	

d (mm)	M2 (mm)
63	122.75
75	122.75
90	171.50
110	171.50
140	171.50



SYGEF Standard Wafer-style, intermediate installation butterfly valve type 240
DA (Double acting)
Flange standard metric

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

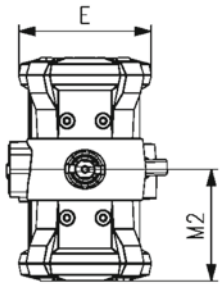
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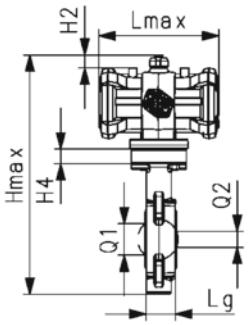
- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

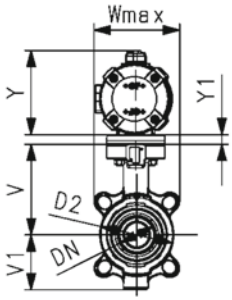
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	FKM Code	SP	Weight (kg)
63	2	50	**199 240 122**	1	2.368
75	2 ½	65	**199 240 123**	1	2.488
90	3	80	**199 240 124**	1	2.970
110	4	100	**199 240 125**	1	3.987
140	5	125	**199 240 126**	1	4.247







d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)	Y1 (mm)
63	338.1	183.5	118.4	90	133.3	23	78.8	45	104	40	0	111.0	119.5	15
75	351.0	183.5	132.5	90	139.9	23	85.1	46	115	54	35	111.0	119.5	15
90	362.8	183.5	136.8	90	145.6	23	91.2	49	131	67	50	111.0	119.5	15
110	403.1	261.0	161.0	90	166.4	23	105.7	56	161	88	74	131.0	141.5	
140	429.8	261.0	187.0	90	180.0	23	118.8	64	187	113	97	131.0	141.5	

d (mm)	M2 (mm)
63	91.75
75	91.75
90	91.75
110	130.50
140	130.50



SYGEF Standard Wafer-style intermediate installation butterfly valve type 240
FO (Fail safe to open)
Flange standard metric

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

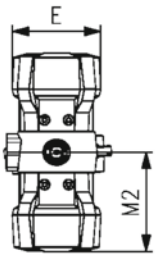
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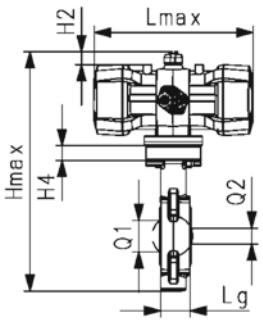
- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

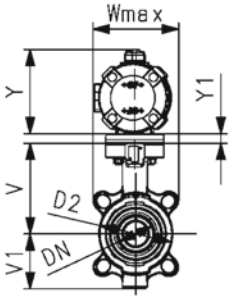
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	FKM Code	SP	Weight (kg)
63	2	50	**199 240 935**	1	3.258
75	2 ½	65	**199 240 936**	1	3.370
90	3	80	**199 240 937**	1	3.550
110	4	100	**199 240 938**	1	5.422
140	5	125	**199 240 939**	1	6.997







d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)	Y1 (mm)
63	338.1	245.5	118.4	90	133.3	23	78.8	45	104	40		111	119.5	15
75	351.0	245.5	132.5	90	139.9	23	85.1	46	115	54	35	111	119.5	15
90	382.8	343.0	136.8	90	145.6	23	91.2	49	131	67	50	131	141.5	15
110	403.1	343.0	161.0	90	166.4	23	105.7	56	161	88	74	131	141.5	
140	429.8	343.0	187.0	90	180.0	23	118.8	64	187	113	97	131	141.5	

d (mm)	M2 (mm)
63	122.75
75	122.75
90	171.50
110	171.50
140	171.50

Butterfly valves electric type 146



PROGEF Standard Lug-style end installation butterfly valve type 146
With electric actuator 230V
Without manual override
Flange standard metric

Model:

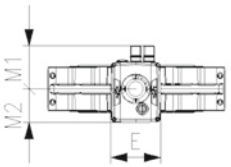
- Material: PP-H
- Voltage 100-230V, 50-60Hz
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

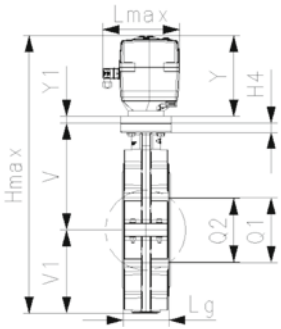
Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE Code
63	2	50	10	740	**199 146 362**	4.299	**199 146 802**
75	2 ½	65	10	1500	**199 146 363**	4.456	**199 146 803**
90	3	80	10	2400	**199 146 364**	4.701	**199 146 804**
110	4	100	10	3800	**199 146 365**	5.606	**199 146 805**
140	5	125	10	8600	**199 146 366**	7.120	**199 146 806**
160	6	150	10	11400	**199 146 367**	8.881	**199 146 807**
225	8	200	10	19900	**199 146 368**	13.625	**199 146 808**
280	10	250	6	34000	**199 146 369**	24.385	
315	12	300	4	50000	**199 146 370**	30.916	

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	Y (mm)	E (mm)
63	378.3	190	165	90	133.3	23	78.8	44.7	160	40		M16	166.2	122.3
75	391.2	190	182	90	139.9	23	85.1	45.7	180	54	35	M16	166.2	122.3
90	426.1	190	210	90	145.6	23	91.2	48.7	195	67	50	M16	189.3	122.3
110	462.8	190	240	90	166.0	23	107.5	55.6	226	88	74	M16	189.3	122.3
140	492.0	190	272	90	180.0	23	122.7	63.5	258	113	97	M16	189.3	122.3
160	522.8	190	300	90	189.0	23	134.5	71.5	284	139	123	M20	199.3	122.3
225	571.3	190	360	90	210.5	23	161.5	72.6	341	178	169	M20	199.3	122.3
280	670.6	190	440	125	264.4	23	206.9	113.2	412	210	207	M20	199.3	122.3
315	720.0	190	510	125	285.2	23	235.5	114.6	482	256	253	M20	199.3	122.3

d (mm)	Y1 (mm)	M1 (mm)	M2 (mm)
63		107.3	82.7
75		107.3	82.7
90		107.3	82.7
110		107.3	82.7
140		107.3	82.7
160		107.3	82.7
225		107.3	82.7
280	17	107.3	82.7
315	17	107.3	82.7

Butterfly valves pneumatic type 243



PROGEF Standard Lug-style end installation butterfly valve type 243
With pneumatic actuator - fail safe to close (FC)
Without manual override
Flange standard metric

Model:

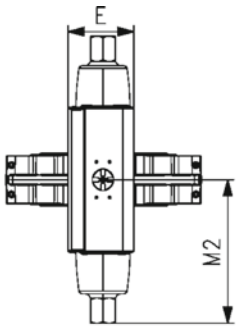
- Housing material: PP-GF30 with SS316 lug-inserts
- Control range 90°<)
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Option:

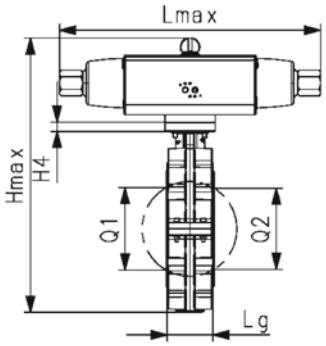
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

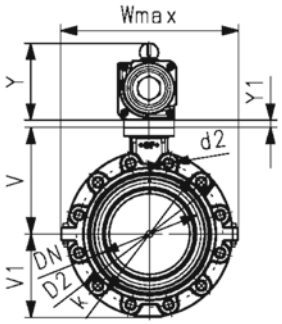
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**199 243 282**	3.499	**199 243 302**	3.499
75	2 ½	65	10	1500	**199 243 283**	3.656	**199 243 303**	3.656
90	3	80	10	2400	**199 243 284**	4.692	**199 243 304**	4.692
110	4	100	10	3800	**199 243 285**	6.406	**199 243 305**	6.406
140	5	125	10	8600	**199 243 286**	9.222	**199 243 306**	9.222
160	6	150	10	11400	**199 243 287**	12.902	**199 243 307**	12.902
225	8	200	10	19900	**199 243 288**	16.691	**199 243 308**	16.691
280	10	250	8	34000	**199 243 289**	33.880	**199 243 309**	33.880
315	12	300	5	50000	**199 243 290**	43.985	**199 243 310**	43.985



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	328.1	274.4	165	90	133.3	23	78.8	44.7	160	40		M16	125	98.2
75	341.0	274.4	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	98.2
90	365.7	325.2	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	111.1
110	388.3	359.6	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	114.8
140	452.2	418.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	149.5
160	476.6	434.0	280	90	189.0	23	134.5	71.5	284	139	123	M20	240	153.1
225	532.0	498.4	360	90	210.5	23	161.5	72.5	341	178	169	M20	295	160.0
280	679.5	646.0	440	125	264.4	23	206.9	113.2	412	210	207	M20	350	190.0
315	749.0	681.0	510	125	285.2	23	235.5	114.6	482	256	253	M20	400	210.1



d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	70.4	15.0	137.2
75	70.4	15.0	137.2
90	83.3	15.0	162.6
110	87.0		179.8
140	107.5		209.0
160	111.1		217.0
225	118.0		249.2
280	148.0	18.2	323.0
315	168.0	18.2	340.5



PROGEF Standard Lug-style end installation butterfly valve type 243
With pneumatic actuator - fail safe to open (FO)
Without manual override
Flange standard metric

Model:

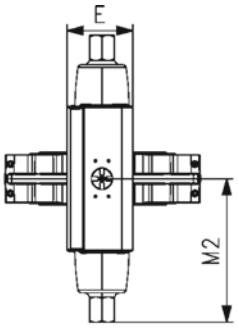
- Housing material: PP-GF30 with SS316 lug-inserts
- Control range 90°<)
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Option:

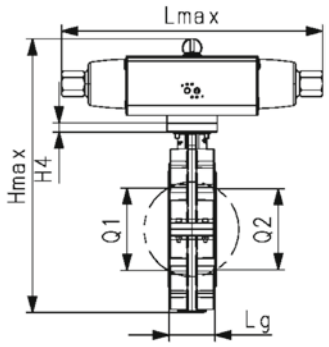
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

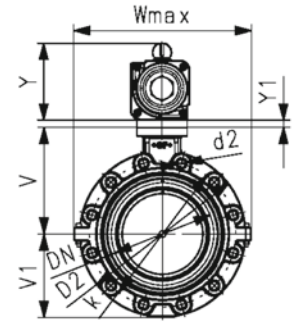
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**199 243 322**	3.499	**199 243 342**	3.499
75	2 ½	65	10	1500	**199 243 323**	3.656	**199 243 343**	3.656
90	3	80	10	2400	**199 243 324**	4.692	**199 243 344**	4.692
110	4	100	10	3800	**199 243 325**	6.406	**199 243 345**	6.406
140	5	125	10	8600	**199 243 326**	9.222	**199 243 346**	9.222
160	6	150	10	11400	**199 243 327**	12.902	**199 243 347**	12.902
225	8	200	10	19900	**199 243 328**	16.691	**199 243 348**	16.691
280	10	250	8	34000	**199 243 329**	33.880	**199 243 349**	33.880
315	12	300	5	50000	**199 243 330**	43.985	**199 243 350**	43.985



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	328.1	274.4	165	90	133.3	23	78.8	44.7	160	40		M16	125	98.2
75	341.0	274.4	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	98.2
90	365.7	325.2	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	111.1
110	388.3	359.6	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	114.8
140	452.2	418.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	149.5
160	476.6	434.0	280	90	189.0	23	134.5	71.5	284	139	123	M20	240	153.1
225	532.0	498.4	360	90	210.5	23	161.5	72.5	341	178	169	M20	295	160.0
280	679.5	646.0	440	125	264.4	23	206.9	113.2	412	210	207	M20	350	190.0
315	749.0	681.0	510	125	285.2	23	235.5	114.6	482	256	253	M20	400	210.1



d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	70.4	15.0	137.2
75	70.4	15.0	137.2
90	83.3	15.0	162.6
110	87.0		179.8
140	107.5		209.0
160	111.1		217.0
225	118.0		249.2
280	148.0	18.2	323.0
315	168.0	18.2	340.5



PROGEF Standard Lug-style end installation butterfly valve type 243
With pneumatic actuator - double acting (DA)
Without manual override
Flange standard metric

Model:

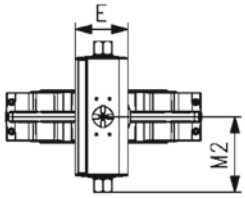
- Housing material: PP-GF30 with SS316 lug-inserts
- Control range 90°<)
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Option:

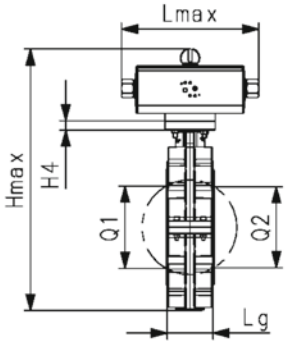
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

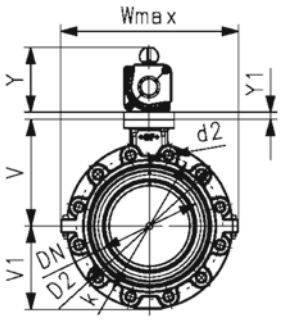
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**199 243 362**	3.499	**199 243 382**	3.499
75	2 ½	65	10	1500	**199 243 363**	3.656	**199 243 383**	3.656
90	3	80	10	2400	**199 243 364**	4.692	**199 243 384**	4.692
110	4	100	10	3800	**199 243 365**	6.406	**199 243 385**	6.406
140	5	125	10	8600	**199 243 366**	9.222	**199 243 386**	9.222
160	6	150	10	11400	**199 243 367**	12.902	**199 243 387**	12.902
225	8	200	10	19900	**199 243 368**	16.691	**199 243 388**	16.691
280	10	250	8	34000	**199 243 369**	33.880	**199 243 389**	33.880
315	12	300	5	50000	**199 243 370**	43.985	**199 243 390**	43.985



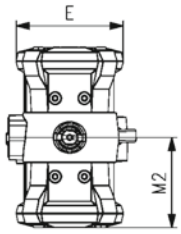
d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	319.4	196.2	165	90	133.3	23	78.8	44.7	160	40		M16	125	92.3
75	332.3	196.2	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	92.3
90	352.8	205.6	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	98.2
110	384.7	242.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	111.2
140	413.9	242.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	111.2
160	473.0	290.0	280	90	189.0	23	134.5	71.5	284	139	123	M20	240	149.5
225	521.5	290.0	360	90	210.5	23	161.5	72.5	341	178	169	M20	295	149.5
280	649.5	339.6	440	125	264.4	23	206.9	113.2	412	210	207	M20	350	160.0
315	698.9	339.6	510	125	285.2	23	235.5	114.6	482	256	253	M20	400	160.0

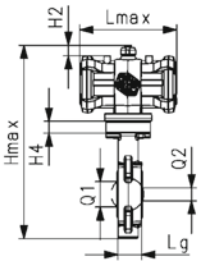


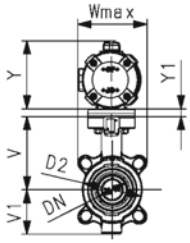
d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	64.5	15.0	98.1
75	64.5	15.0	98.1
90	70.4	15.0	102.8
110	83.3		121.0
140	83.3		121.0
160	107.5		145.0
225	107.5		145.0
280	118.0	18.2	169.8
315	118.0	18.2	169.8











PROGEF Standard Wafer-style intermediate installation butterfly valve type 240 DA (Double acting) Flange standard metric

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	**199 240 852**	1	2.227	**199 240 862**	1	2.243
75	2 ½	65	**199 240 853**	1	2.084	**199 240 863**	1	2.089
90	3	80	**199 240 854**	1	2.728	**199 240 864**	1	2.748
110	4	100	**199 240 855**	1	3.542	**199 240 865**	1	3.331
140	5	125	**199 240 856**	1	3.967	**199 240 866**	1	3.779

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)	Y1 (mm)
63	338.1	183.5	118.4	90	133.3	23	78.8	45	104	40	0	111	119.5	15
75	351.0	183.5	132.5	90	139.9	23	85.1	46	115	54	35	111	119.5	15
90	362.8	183.5	136.8	90	145.6	23	91.2	49	131	67	50	111	119.5	15
110	403.1	261.0	161.0	90	166.4	23	105.7	56	161	88	74	131	141.5	
140	429.8	261.0	187.0	90	180.0	23	118.8	64	187	113	97	131	141.5	

d (mm)	M2 (mm)
63	91.75
75	91.75
90	91.75
110	130.50
140	130.50





PROGEF Standard Wafer-style intermediate installation butterfly valve type 240 FC (Fail safe to close) Flange standard metric

Model:

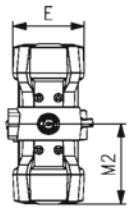
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

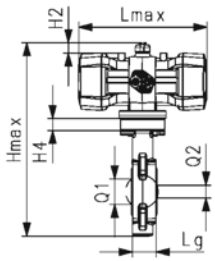
- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

Note:

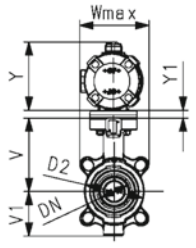
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	**199 240 802**	1	2.909	**199 240 822**	1	3.147
75	2 ½	65	**199 240 803**	1	2.999	**199 240 823**	1	3.007
90	3	80	**199 240 804**	1	3.787	**199 240 824**	1	3.369
110	4	100	**199 240 805**	1	4.996	**199 240 825**	1	5.079
140	5	125	**199 240 806**	1	6.790	**199 240 826**	1	6.529



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)	Y1 (mm)
63	338.1	245.5	118.4	90	133.3	23	78.8	45	104	40	0	111	119.5	15
75	351.0	245.5	132.5	90	139.9	23	85.1	46	115	54	35	111	119.5	15
90	382.8	343.0	136.8	90	145.6	23	91.2	49	131	67	50	131	141.5	15
110	403.1	343.0	161.0	90	166.4	23	105.7	56	161	88	74	131	141.5	
140	429.8	343.0	187.0	90	180.0	23	118.8	64	187	113	97	131	141.5	



d (mm)	M2 (mm)
63	122.75
75	122.75
90	171.50
110	171.50
140	171.50



PROGEF Standard Wafer-style intermediate installation butterfly valve type 240 FO (Fail safe to open) Flange standard metric

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

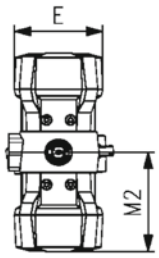
Option:

- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

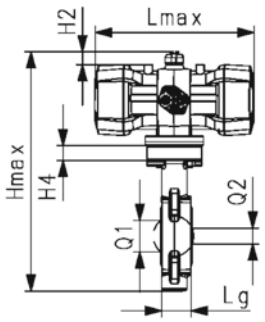
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

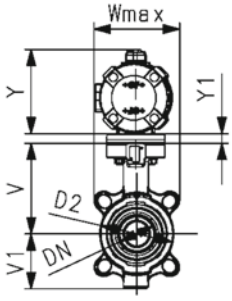
d (mm)	Size (inch)	DN (mm)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	**199 240 832**	1	3.143	**199 240 842**	1	3.147
75	2 ½	65	**199 240 833**	1	3.234	**199 240 843**	1	3.239
90	3	80	**199 240 834**	1	3.362	**199 240 844**	1	3.369
110	4	100	**199 240 835**	1	4.988	**199 240 845**	1	5.079
140	5	125	**199 240 836**	1	6.511	**199 240 846**	1	6.529



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)	Y1 (mm)
63	338.1	245.5	118.4	90	133.3	23	78.8	45	104	40		111	119.5	15
75	351.0	245.5	132.5	90	139.9	23	85.1	46	115	54	35	111	119.5	15
90	382.8	343.0	136.8	90	145.6	23	91.2	49	131	67	50	131	141.5	15
110	403.1	343.0	161.0	90	166.4	23	105.7	56	161	88	74	131	141.5	
140	429.8	343.0	187.0	90	180.0	23	118.8	64	187	113	97	131	141.5	



d (mm)	M2 (mm)
63	122.75
75	122.75
90	171.50
110	171.50
140	171.50





PROGEF Standard Lug-style, end installation butterfly valve type 243
DA (Double acting)
Flange standard metric

Model:

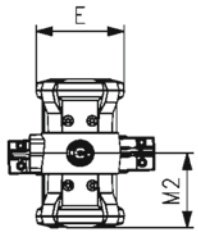
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

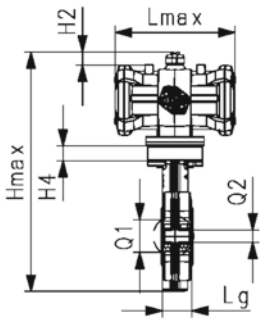
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

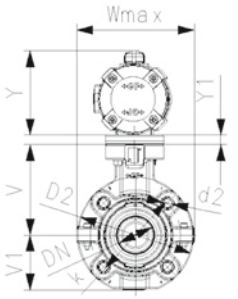
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 243 852**	1	3.499	**199 243 862**	1	3.499
75	2 ½	65	10	**199 243 853**	1	3.656	**199 243 863**	1	3.656
90	3	80	10	**199 243 854**	1	4.692	**199 243 864**	1	4.692
110	4	100	10	**199 243 855**	1	6.406	**199 243 865**	1	6.406
140	5	125	10	**199 243 856**	1	9.222	**199 243 866**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	111
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131



d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	91.75
75	119.5	15	91.75
90	119.5	15	91.75
110	141.5		130.50
140	141.5		130.50



Lug-style end installation butterfly valve type 243 ABS
DA (Double acting)
Flange standard metric

Model:

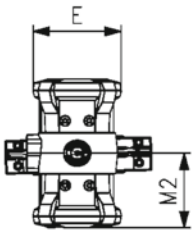
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

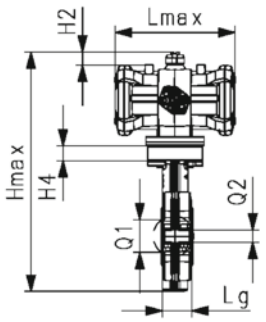
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

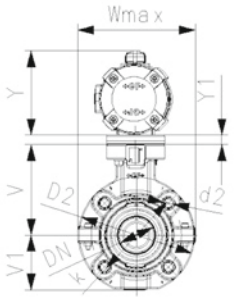
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)
63	2	50	10	**199 243 900**	1	3.499
75	2 ½	65	10	**199 243 901**	1	3.656
90	3	80	10	**199 243 902**	1	4.692
110	4	100	10	**199 243 903**	1	6.406
140	5	125	10	**199 243 904**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	111
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131



d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	91.75
75	119.5	15	91.75
90	119.5	15	91.75
110	141.5		130.50
140	141.5		130.50



SYGEF Standard Lug-style end installation butterfly valve type 243
DA (Double acting)
Flange standard metric

Model:

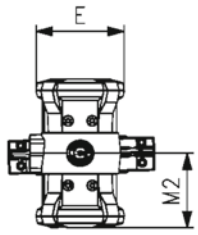
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

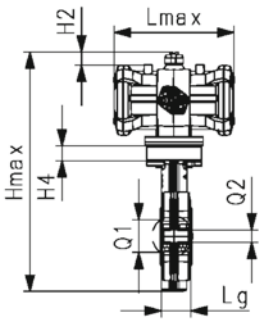
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

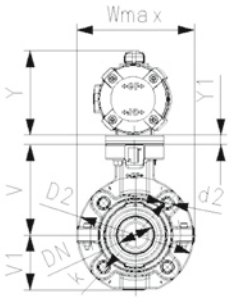
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 243 905**	1	3.499
75	2 ½	65	10	**199 243 906**	1	3.656
90	3	80	10	**199 243 907**	1	4.692
110	4	100	10	**199 243 908**	1	6.406
140	5	125	10	**199 243 909**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	111
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131



d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	91.75
75	119.5	15	91.75
90	119.5	15	91.75
110	141.5		130.50
140	141.5		130.50



Lug-style end installation butterfly valve Type 243 PVC-U
FC (Fail safe to close)
Flange standard metric

Model:

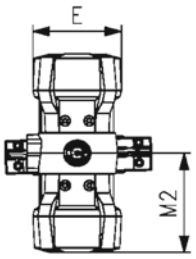
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

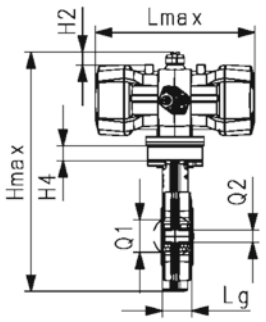
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

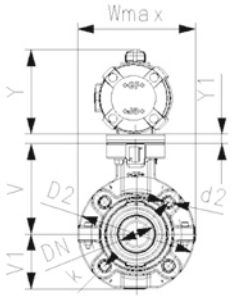
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 243 602**	1	3.499	**199 243 622**	1	3.499
75	2 ½	65	10	**199 243 603**	1	3.656	**199 243 623**	1	3.656
90	3	80	10	**199 243 604**	1	4.692	**199 243 624**	1	4.692
110	4	100	10	**199 243 605**	1	6.406	**199 243 625**	1	6.406
140	5	125	10	**199 243 606**	1	9.222	**199 243 626**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131



d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



Lug-style end installation butterfly valve type 243 PVC-C
FC (Fail safe to close)
Flange standard metric

Model:

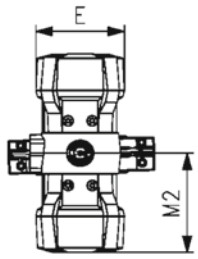
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

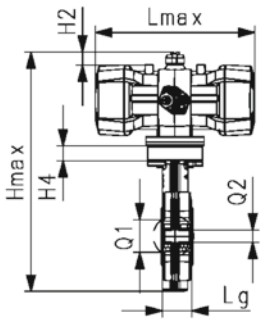
Option:

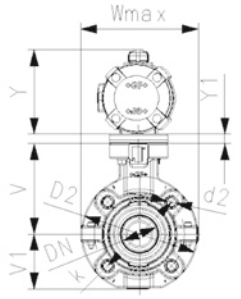
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 243 712**	1	3.499	**199 243 722**	1	3.499
75	2 ½	65	10	**199 243 713**	1	3.656	**199 243 723**	1	3.656
90	3	80	10	**199 243 714**	1	4.692	**199 243 724**	1	4.692
110	4	100	10	**199 243 715**	1	6.406	**199 243 725**	1	6.406
140	5	125	10	**199 243 716**	1	9.222	**199 243 726**	1	9.222

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



PROGEF Standard Lug-style end installation butterfly valve type 243
FC (Fail safe to close)
Flange standard metric

Model:

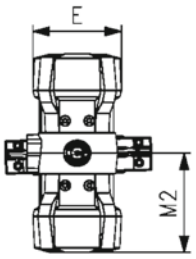
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

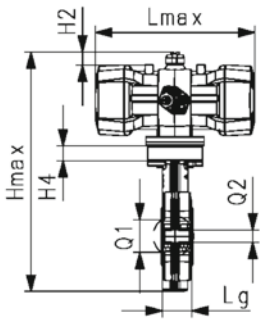
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

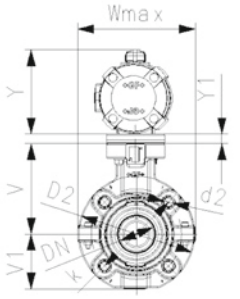
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 243 802**	1	3.499	**199 243 822**	1	3.499
75	2 ½	65	10	**199 243 803**	1	3.656	**199 243 823**	1	3.656
90	3	80	10	**199 243 804**	1	4.692	**199 243 824**	1	4.692
110	4	100	10	**199 243 805**	1	6.406	**199 243 825**	1	6.406
140	5	125	10	**199 243 806**	1	9.222	**199 243 826**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131



d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	122.75
75	119.5	15	122.79
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



Lug-style end installation butterfly valve type 243 ABS
FC (Fail safe to close)
Flange standard metric

Model:

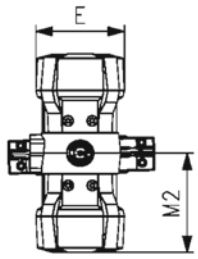
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

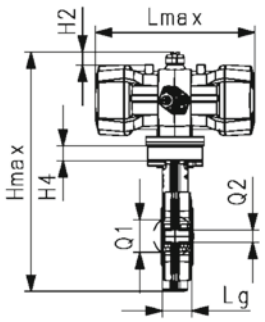
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

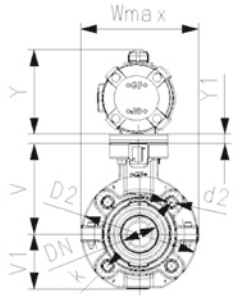
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)
63	2	50	10	**199 243 920**	1	3.499
75	2 ½	65	10	**199 243 921**	1	3.656
90	3	80	10	**199 243 922**	1	4.692
110	4	100	10	**199 243 923**	1	6.406
140	5	125	10	**199 243 924**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131



d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



SYGEF Standard Lug-style end installation butterfly valve type 243
FC (Fail safe to close)
Flange standard metric

Model:

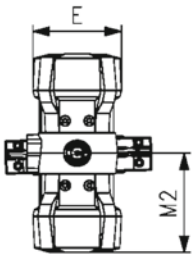
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

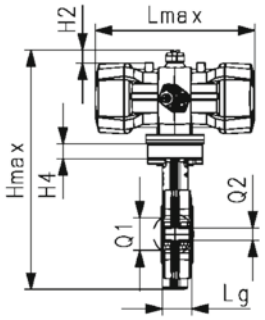
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

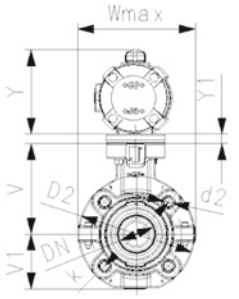
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 243 925**	1	3.499
75	2 ½	65	10	**199 243 926**	1	3.656
90	3	80	10	**199 243 927**	1	4.692
110	4	100	10	**199 243 928**	1	6.406
140	5	125	10	**199 243 929**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131



d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



Lug-style end installation butterfly valve Type 243 PVC-U
FO (Fail safe to open)
Flange standard metric

Model:

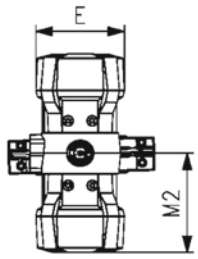
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

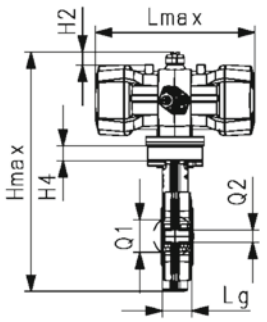
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

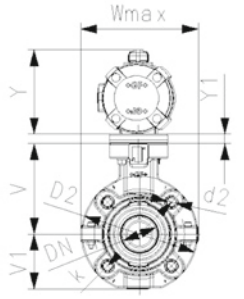
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 243 632**	1	3.499	**199 243 642**	1	3.499
75	2 ½	65	10	**199 243 633**	1	3.656	**199 243 643**	1	3.656
90	3	80	10	**199 243 634**	1	4.692	**199 243 644**	1	4.692
110	4	100	10	**199 243 635**	1	6.406	**199 243 645**	1	6.406
140	5	125	10	**199 243 636**	1	9.222	**199 243 646**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)	E (mm)
63	338.1	245.5	165	133.3	23	78.8	44.7	160	40		M16	125	111	119.5
75	351.0	245.5	182	139.9	23	85.1	45.7	180	54	35	M16	145	111	119.5
90	367.8	343.0	210	145.6	23	91.2	48.7	195	67	50	M16	160	131	141.5
110	404.5	343.0	240	166.0	23	107.5	55.6	226	88	74	M16	180	131	141.5
140	433.7	343.0	272	180.0	23	122.7	63.5	258	113	97	M16	210	131	141.5



d (mm)	Y1 (mm)	M2 (mm)
63	15	122.8
75	15	122.8
90	15	171.5
110		171.5
140		171.5



Lug-style end installation butterfly valve type 243 PVC-C
FO (Fail safe to open)
Flange standard metric

Model:

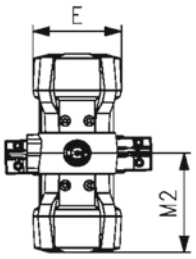
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

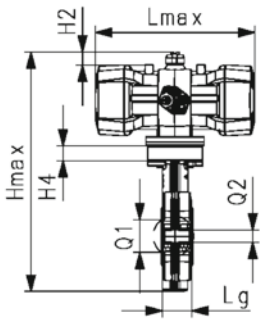
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

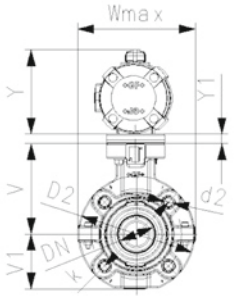
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 243 732**	1	3.499	**199 243 742**	1	3.499
75	2 ½	65	10	**199 243 733**	1	3.656	**199 243 743**	1	3.656
90	3	80	10	**199 243 734**	1	4.692	**199 243 744**	1	4.692
110	4	100	10	**199 243 735**	1	6.406	**199 243 745**	1	6.406
140	5	125	10	**199 243 736**	1	9.222	**199 243 746**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131



d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



PROGEF Standard Lug-style end installation butterfly valve type 243
FO (Fail safe to open)
Flange standard metric

Model:

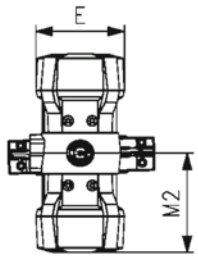
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

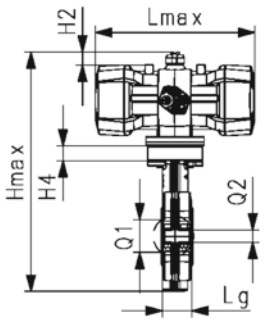
Option:

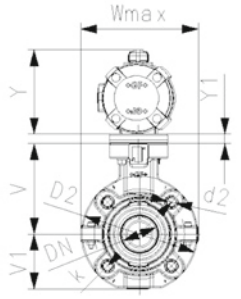
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 243 832**	1	3.499	**199 243 842**	1	3.499
75	2 ½	65	10	**199 243 833**	1	3.656	**199 243 843**	1	3.656
90	3	80	10	**199 243 834**	1	4.692	**199 243 844**	1	4.692
110	4	100	10	**199 243 835**	1	6.406	**199 243 845**	1	6.406
140	5	125	10	**199 243 836**	1	9.222	**199 243 846**	1	9.222

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF
With pneumatic actuator - fail safe to close (FC)
Wafer style metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

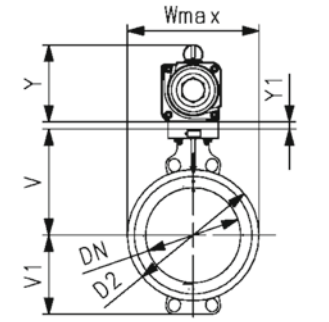
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 1-2s
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

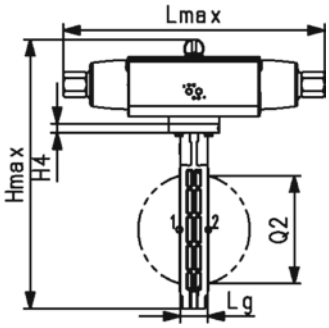
Option:

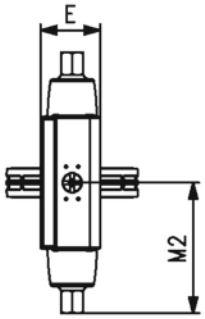
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	SP	Weight (kg)
63	2	50	10	1445	PA30	**199 565 500**	1	3.2
75	2 ½	65	10	2530	PA30	**199 565 501**	1	3.5
90	3	80	10	4020	PA35	**199 565 502**	1	4.3
110	4	100	10	5850	PA40	**199 565 503**	1	5.9
140	5	125	10	11900	PA45	**199 565 504**	1	7.9
160	6	150	10	18050	PA50	**199 565 505**	1	10.7
225	8	200	10	43667	PA60	**199 565 506**	1	16.4
280	10	250	10	62333	PA65	**199 565 507**	1	25.5
315	12	300	6	94500	PA70	**199 565 508**	1	32.1

d (mm)	FKM Code	SP	Weight (kg)
63	**199 565 520**	1	3.3
75	**199 565 521**	1	3.6
90	**199 565 522**	1	4.4
110	**199 565 523**	1	6.1
140	**199 565 524**	1	8.2
160	**199 565 525**	1	11.0
225	**199 565 526**	1	16.9
280	**199 565 527**	1	26.2
315	**199 565 528**	1	33.3

d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	M2 (mm)	Y (mm)	Y1 (mm)	Q2 (mm)
63	100.0	118.5	309.5	274.5	23	133.5	63.0	43	70.5	137.2	98.5	15	28.5
75	121.0	132.5	335.5	275.5	23	140.0	82.0	46	70.5	137.2	98.5	15	44.0
90	138.0	138.0	361.0	325.5	23	146.0	89.0	46	83.5	162.6	111.5	15	63.5
110	158.5	158.5	385.5	359.5	23	166.5	104.0	52	87.0	179.8	115.0	0	84.0
140	187.0	187.0	447.5	418.0	23	180.0	118.0	56	107.5	209.0	149.5	0	110.5
160	213.0	213.0	472.5	434.0	23	189.0	130.5	56	111.5	217.0	153.5	0	137.5
225	267.0	267.0	545.5	547.5	23	209.5	159.0	60	135.0	273.6	177.0	0	190.5
280	325.5	325.5	666.0	681.0	23	262.5	195.5	68	148.0	323.0	190.0	18	239.0
315	380.0	380.0	743.0	681.0	23	284.5	230.5	78	168.0	340.5	210.5	18	285.5



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF
With pneumatic actuator - fail safe to open (FO)
Wafer style metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

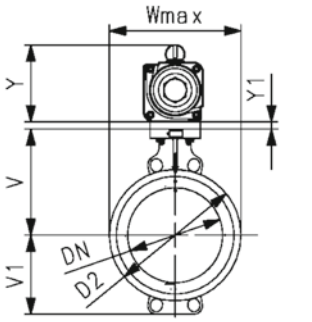
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 1-2s
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

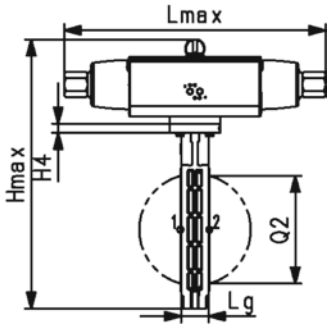
Option:

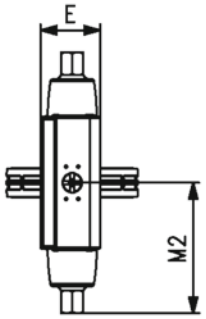
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







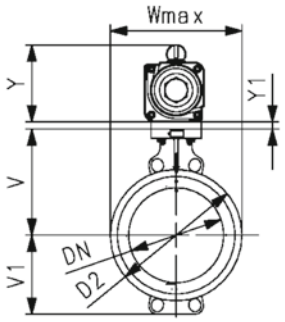
d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	SP	Weight (kg)
63	2	50	10	1445	PA30	**199 565 540**	1	3.2
75	2 ½	65	10	2530	PA30	**199 565 541**	1	3.5
90	3	80	10	4020	PA35	**199 565 542**	1	4.3
110	4	100	10	5850	PA40	**199 565 543**	1	5.9
140	5	125	10	11900	PA45	**199 565 544**	1	7.9
160	6	150	10	18050	PA50	**199 565 545**	1	10.7
225	8	200	10	43667	PA60	**199 565 546**	1	14.8
280	10	250	10	62333	PA65	**199 565 547**	1	28.4
315	12	300	6	94500	PA70	**199 565 548**	1	32.1

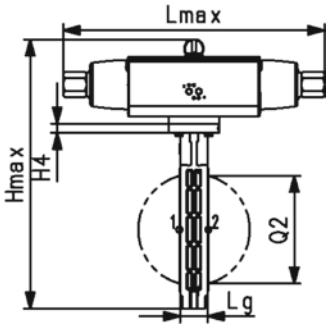
d (mm)	Size (inch)	FKM Code	SP	Weight (kg)
63	2	**199 565 560**	1	3.3
75	2 ½	**199 565 561**	1	3.6
90	3	**199 565 562**	1	4.4
110	4	**199 565 563**	1	6.1
140	5	**199 565 564**	1	8.2
160	6	**199 565 565**	1	11.0
225	8	**199 565 566**	1	15.3
280	10	**199 565 567**	1	29.1
315	12	**199 565 568**	1	33.3

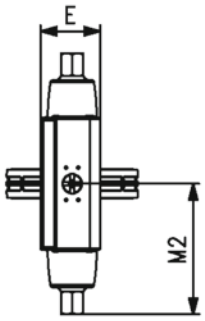
d (mm)	Size (inch)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	M2 (mm)	Y (mm)	Y1 (mm)
63	2	100.0	118.5	309.5	274.5	23	133.5	63.0	43	70.5	137.5	98.5	15
75	2 ½	121.0	132.5	335.5	275.5	23	140.0	82.0	46	70.5	137.5	98.5	15
90	3	138.0	138.0	361.0	325.5	23	146.0	89.0	46	83.5	163.0	111.5	15
110	4	158.5	158.5	385.5	359.5	23	166.5	104.0	52	87.0	180.0	115.0	0
140	5	187.0	187.0	447.5	418.0	23	180.0	118.0	56	107.5	209.0	149.5	0
160	6	213.0	213.0	472.5	434.0	23	189.0	130.5	56	111.5	217.0	153.5	0
225	8	267.0	267.0	545.5	547.5	23	209.5	159.0	60	135.0	274.0	177.0	0
280	10	325.5	325.5	666.0	681.0	23	262.5	195.5	68	148.0	323.0	190.0	18
315	12	380.0	380.0	743.0	681.0	23	284.5	230.5	78	168.0	340.5	210.5	18

d (mm)	Size (inch)	Q2 (mm)
63	2	28.5
75	2 ½	44.0
90	3	63.5
110	4	84.0

table continued on the next page







d (mm)	Size (inch)	Q2 (mm)
140	5	110.5
160	6	137.5
225	8	190.5
280	10	239.0
315	12	285.5



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF
With pneumatic actuator - double acting (DA)
Wafer style metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

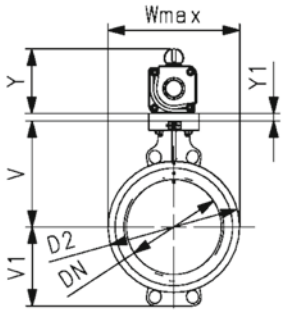
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 1-2s
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

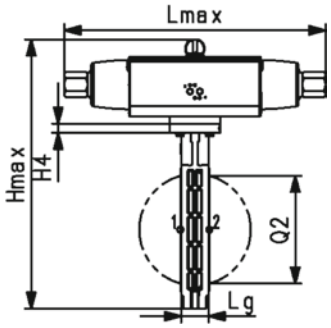
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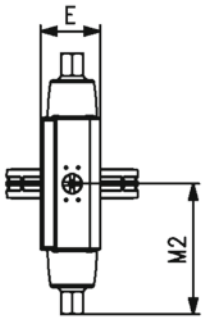
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	SP	Weight (kg)
63	2	50	10	1445	PA35	**199 565 600**	1	2.6
75	2 ½	65	10	2530	PA35	**199 565 601**	1	2.9
90	3	80	10	4020	PA40	**199 565 602**	1	3.4
110	4	100	10	5850	PA45	**199 565 603**	1	4.5
140	5	125	10	11900	PA45	**199 565 604**	1	5.1
160	6	150	10	18050	PA55	**199 565 605**	1	7.7
225	8	200	10	43667	PA60	**199 565 606**	1	10.7
280	10	250	10	62333	PA65	**199 565 607**	1	16.9
315	12	300	6	94500	PA70	**199 565 608**	1	22.4

d (mm)	FKM Code	SP	Weight (kg)
63	**199 565 620**	1	2.7
75	**199 565 621**	1	3.0
90	**199 565 622**	1	3.5
110	**199 565 623**	1	4.7
140	**199 565 624**	1	5.4
160	**199 565 625**	1	8.0
225	**199 565 626**	1	11.2
280	**199 565 627**	1	17.6
315	**199 565 628**	1	23.6

d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	M2 (mm)	Y (mm)	Y1 (mm)	Q2 (mm)
63	100.0	118.5	303.5	196.5	23	133.5	63.0	43	64.5	98.5	92.5	15	28.5
75	121.0	132.5	329.5	196.5	23	140.0	82.0	46	64.5	98.5	92.5	15	44.0
90	138.0	138.0	348.0	206.0	23	146.0	89.0	46	70.5	103.0	98.5	15	63.5
110	158.5	158.5	381.5	242.0	23	166.5	104.0	52	83.5	121.0	111.5	0	84.0
140	187.0	187.0	409.0	242.0	23	180.0	118.0	56	83.5	121.0	111.5	0	110.5
160	213.0	213.0	468.5	290.5	23	189.0	130.5	56	107.5	145.5	149.5	0	137.5
225	267.0	267.0	522.0	314.0	23	209.5	159.0	60	111.5	157.0	153.5	0	190.5
280	325.5	325.5	636.0	340.0	23	262.5	195.5	68	118.0	170.0	160.0	18	239.0
315	380.0	380.0	709.5	382.5	23	284.5	230.5	78	135.0	191.5	177.0	18	285.5



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF
With plastic pneumatic actuator - fail safe to close (FC)
Wafer style metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

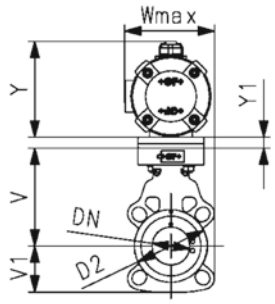
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 1-2s
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Full plastic solution (actuator housing made of PP-GF)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory

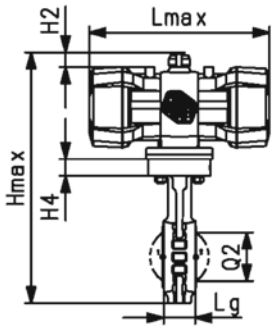
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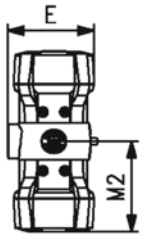
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	SP	Weight (kg)
63	2	50	10	1445	PPA40	**199 565 650**	1	2.922
75	2 ½	65	10	2530	PPA80	**199 565 651**	1	4.905
90	3	80	10	4020	PPA80	**199 565 652**	1	5.075

d (mm)	FKM Code	SP	Weight (kg)
63	**199 565 660**	1	2.922
75	**199 565 661**	1	4.905
90	**199 565 662**	1	5.075

d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H2 (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	M2 (mm)	Y (mm)	Y1 (mm)	Q2 (mm)
63	100	121.2	341.2	245.5	20	23	133.5	63	43	119.5	122.8	111	15	28.5
75	121	140.0	372.2	343.0	20	23	140.0	82	46	141.5	171.5	131	0	44.0
90	138	142.4	384.9	343.0	20	23	146.0	89	46	141.5	171.5	131	0	63.5



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF
With plastic pneumatic actuator - fail safe to open (FO)
Wafer style metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

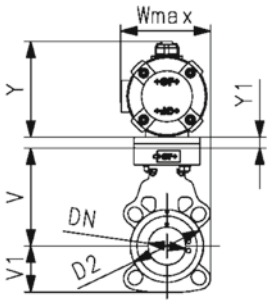
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 1-2s
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Full plastic solution (actuator housing made of PP-GF)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory

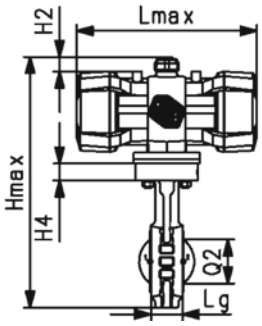
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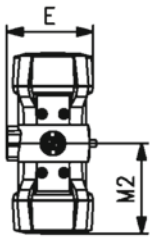
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com





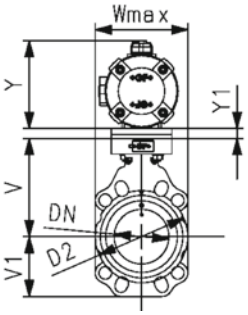


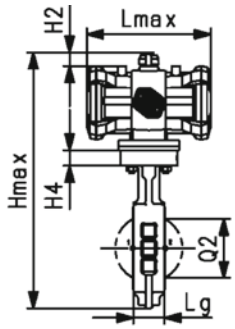
d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	SP	Weight (kg)
63	2	50	10	1445	PPA40	**199 565 670**	1	2.922
75	2 ½	65	10	2530	PPA80	**199 565 671**	1	4.905
90	3	80	10	4020	PPA80	**199 565 672**	1	5.075

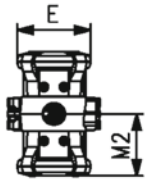
d (mm)	FKM Code	SP	Weight (kg)
63	**199 565 680**	1	2.922
75	**199 565 681**	1	4.905
90	**199 565 682**	1	5.075

d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H2 (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	M2 (mm)	Y (mm)	Y1 (mm)	Q2 (mm)
63	100	121.2	341.2	245.5	20	23	133.5	63	43	119.5	122.8	111	15	28.5
75	121	140.0	372.2	343.0	20	23	140.0	82	46	141.5	171.5	131	0	44.0
90	138	142.4	384.9	343.0	20	23	146.0	89	46	141.5	171.5	131	0	63.5









Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF
With plastic pneumatic actuator - double acting (DA)
Wafer style metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 1-2s
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Full plastic solution (actuator housing made of PP-GF)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory

Option:

- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	SP	Weight (kg)
63	2	50	10	1445	PPA40	**199 565 630**	1	2.396
75	2 ½	65	10	2530	PPA40	**199 565 631**	1	2.664
90	3	80	10	4020	PPA40	**199 565 632**	1	2.854

d (mm)	FKM Code	SP	Weight (kg)
63	**199 565 690**	1	2.396
75	**199 565 691**	1	2.664
90	**199 565 692**	1	2.854

d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H2 (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	M2 (mm)	Y (mm)	Y1 (mm)	Q2 (mm)
63	100	121.2	341.2	183.5	20	23	133.5	63	43.0	119.5	91.8	111	15	28.5
75	121	132.5	367.1	183.5	20	23	140.0	82	46.0	119.5	91.8	111	15	44.0
90	138	138.0	379.8	183.5	20	23	146.0	89	46.0	119.5	91.8	111	15	63.5



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF
With pneumatic actuator - fail safe to close (FC)
Wafer style metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

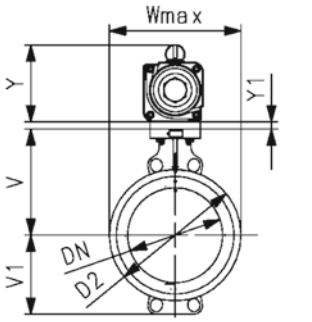
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 1-2s
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

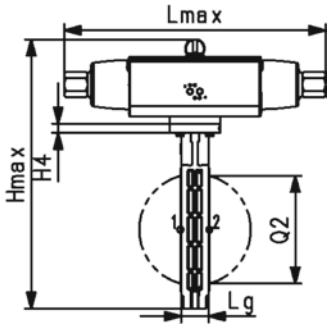
Option:

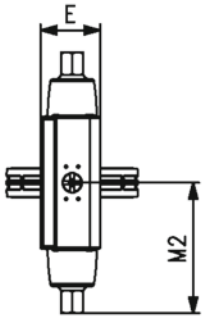
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	SP	Weight (kg)
63	2	50	10	1445	PA30	**199 565 500**	1	3.2
75	2 ½	65	10	2530	PA30	**199 565 501**	1	3.5
90	3	80	10	4020	PA35	**199 565 502**	1	4.3
110	4	100	10	5850	PA40	**199 565 503**	1	5.9
140	5	125	10	11900	PA45	**199 565 504**	1	7.9
160	6	150	10	18050	PA50	**199 565 505**	1	10.7
225	8	200	10	43667	PA60	**199 565 506**	1	16.4
280	10	250	10	62333	PA65	**199 565 507**	1	25.5
315	12	300	6	94500	PA70	**199 565 508**	1	32.1

d (mm)	FKM Code	SP	Weight (kg)
63	**199 565 520**	1	3.3
75	**199 565 521**	1	3.6
90	**199 565 522**	1	4.4
110	**199 565 523**	1	6.1
140	**199 565 524**	1	8.2
160	**199 565 525**	1	11.0
225	**199 565 526**	1	16.9
280	**199 565 527**	1	26.2
315	**199 565 528**	1	33.3

d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	M2 (mm)	Y (mm)	Y1 (mm)	Q2 (mm)
63	100.0	118.5	309.5	274.5	23	133.5	63.0	43	70.5	137.2	98.5	15	28.5
75	121.0	132.5	335.5	275.5	23	140.0	82.0	46	70.5	137.2	98.5	15	44.0
90	138.0	138.0	361.0	325.5	23	146.0	89.0	46	83.5	162.6	111.5	15	63.5
110	158.5	158.5	385.5	359.5	23	166.5	104.0	52	87.0	179.8	115.0	0	84.0
140	187.0	187.0	447.5	418.0	23	180.0	118.0	56	107.5	209.0	149.5	0	110.5
160	213.0	213.0	472.5	434.0	23	189.0	130.5	56	111.5	217.0	153.5	0	137.5
225	267.0	267.0	545.5	547.5	23	209.5	159.0	60	135.0	273.6	177.0	0	190.5
280	325.5	325.5	666.0	681.0	23	262.5	195.5	68	148.0	323.0	190.0	18	239.0
315	380.0	380.0	743.0	681.0	23	284.5	230.5	78	168.0	340.5	210.5	18	285.5



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF
With pneumatic actuator - fail safe to open (FO)
Wafer style metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

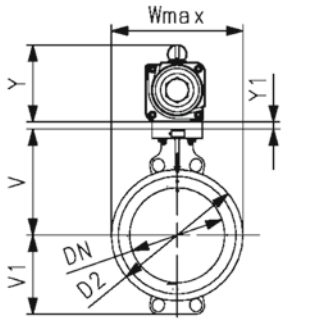
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 1-2s
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

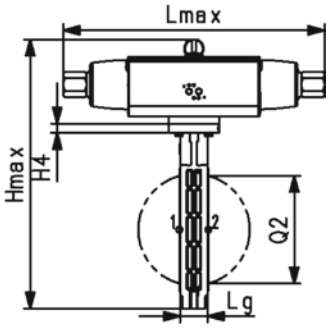
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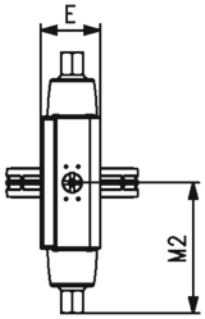
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







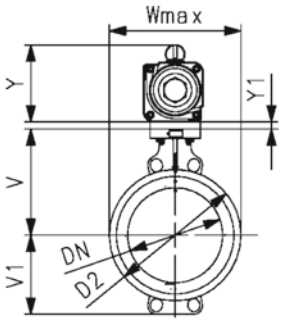
d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	SP	Weight (kg)
63	2	50	10	1445	PA30	**199 565 540**	1	3.2
75	2 ½	65	10	2530	PA30	**199 565 541**	1	3.5
90	3	80	10	4020	PA35	**199 565 542**	1	4.3
110	4	100	10	5850	PA40	**199 565 543**	1	5.9
140	5	125	10	11900	PA45	**199 565 544**	1	7.9
160	6	150	10	18050	PA50	**199 565 545**	1	10.7
225	8	200	10	43667	PA60	**199 565 546**	1	14.8
280	10	250	10	62333	PA65	**199 565 547**	1	28.4
315	12	300	6	94500	PA70	**199 565 548**	1	32.1

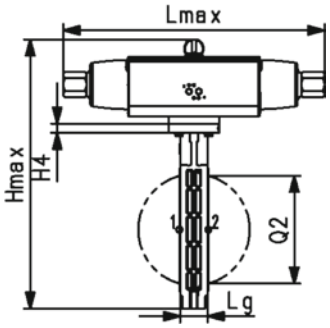
d (mm)	Size (inch)	FKM Code	SP	Weight (kg)
63	2	**199 565 560**	1	3.3
75	2 ½	**199 565 561**	1	3.6
90	3	**199 565 562**	1	4.4
110	4	**199 565 563**	1	6.1
140	5	**199 565 564**	1	8.2
160	6	**199 565 565**	1	11.0
225	8	**199 565 566**	1	15.3
280	10	**199 565 567**	1	29.1
315	12	**199 565 568**	1	33.3

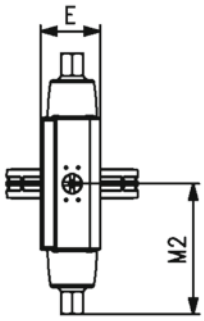
d (mm)	Size (inch)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	M2 (mm)	Y (mm)	Y1 (mm)
63	2	100.0	118.5	309.5	274.5	23	133.5	63.0	43	70.5	137.5	98.5	15
75	2 ½	121.0	132.5	335.5	275.5	23	140.0	82.0	46	70.5	137.5	98.5	15
90	3	138.0	138.0	361.0	325.5	23	146.0	89.0	46	83.5	163.0	111.5	15
110	4	158.5	158.5	385.5	359.5	23	166.5	104.0	52	87.0	180.0	115.0	0
140	5	187.0	187.0	447.5	418.0	23	180.0	118.0	56	107.5	209.0	149.5	0
160	6	213.0	213.0	472.5	434.0	23	189.0	130.5	56	111.5	217.0	153.5	0
225	8	267.0	267.0	545.5	547.5	23	209.5	159.0	60	135.0	274.0	177.0	0
280	10	325.5	325.5	666.0	681.0	23	262.5	195.5	68	148.0	323.0	190.0	18
315	12	380.0	380.0	743.0	681.0	23	284.5	230.5	78	168.0	340.5	210.5	18

d (mm)	Size (inch)	Q2 (mm)
63	2	28.5
75	2 ½	44.0
90	3	63.5
110	4	84.0

table continued on the next page







d (mm)	Size (inch)	Q2 (mm)
140	5	110.5
160	6	137.5
225	8	190.5
280	10	239.0
315	12	285.5



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF
With pneumatic actuator - double acting (DA)
Wafer style metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

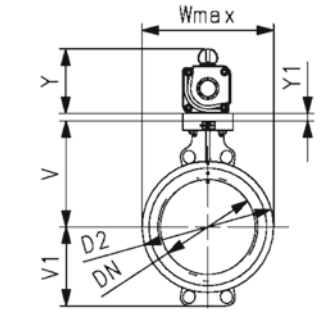
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 1-2s
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

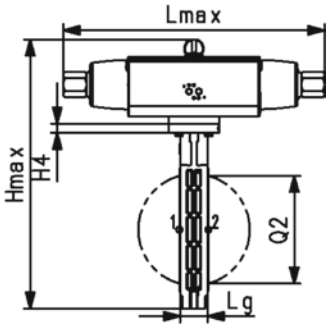
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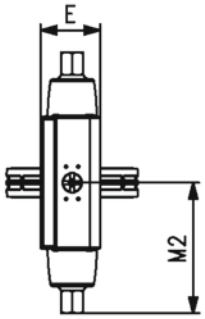
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	SP	Weight (kg)
63	2	50	10	1445	PA35	**199 565 600**	1	2.6
75	2 ½	65	10	2530	PA35	**199 565 601**	1	2.9
90	3	80	10	4020	PA40	**199 565 602**	1	3.4
110	4	100	10	5850	PA45	**199 565 603**	1	4.5
140	5	125	10	11900	PA45	**199 565 604**	1	5.1
160	6	150	10	18050	PA55	**199 565 605**	1	7.7
225	8	200	10	43667	PA60	**199 565 606**	1	10.7
280	10	250	10	62333	PA65	**199 565 607**	1	16.9
315	12	300	6	94500	PA70	**199 565 608**	1	22.4

d (mm)	FKM Code	SP	Weight (kg)
63	**199 565 620**	1	2.7
75	**199 565 621**	1	3.0
90	**199 565 622**	1	3.5
110	**199 565 623**	1	4.7
140	**199 565 624**	1	5.4
160	**199 565 625**	1	8.0
225	**199 565 626**	1	11.2
280	**199 565 627**	1	17.6
315	**199 565 628**	1	23.6

d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	M2 (mm)	Y (mm)	Y1 (mm)	Q2 (mm)
63	100.0	118.5	303.5	196.5	23	133.5	63.0	43	64.5	98.5	92.5	15	28.5
75	121.0	132.5	329.5	196.5	23	140.0	82.0	46	64.5	98.5	92.5	15	44.0
90	138.0	138.0	348.0	206.0	23	146.0	89.0	46	70.5	103.0	98.5	15	63.5
110	158.5	158.5	381.5	242.0	23	166.5	104.0	52	83.5	121.0	111.5	0	84.0
140	187.0	187.0	409.0	242.0	23	180.0	118.0	56	83.5	121.0	111.5	0	110.5
160	213.0	213.0	468.5	290.5	23	189.0	130.5	56	107.5	145.5	149.5	0	137.5
225	267.0	267.0	522.0	314.0	23	209.5	159.0	60	111.5	157.0	153.5	0	190.5
280	325.5	325.5	636.0	340.0	23	262.5	195.5	68	118.0	170.0	160.0	18	239.0
315	380.0	380.0	709.5	382.5	23	284.5	230.5	78	135.0	191.5	177.0	18	285.5



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF
With plastic pneumatic actuator - fail safe to open (FO)
Wafer style metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

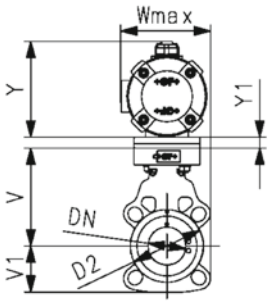
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 1-2s
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Full plastic solution (actuator housing made of PP-GF)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory

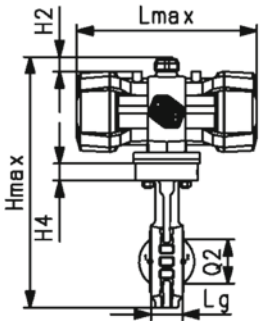
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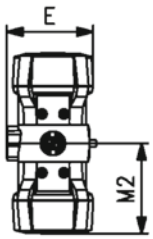
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	SP	Weight (kg)
63	2	50	10	1445	PPA40	**199 565 670**	1	2.922
75	2 ½	65	10	2530	PPA80	**199 565 671**	1	4.905
90	3	80	10	4020	PPA80	**199 565 672**	1	5.075

d (mm)	FKM Code	SP	Weight (kg)
63	**199 565 680**	1	2.922
75	**199 565 681**	1	4.905
90	**199 565 682**	1	5.075

d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H2 (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	M2 (mm)	Y (mm)	Y1 (mm)	Q2 (mm)
63	100	121.2	341.2	245.5	20	23	133.5	63	43	119.5	122.8	111	15	28.5
75	121	140.0	372.2	343.0	20	23	140.0	82	46	141.5	171.5	131	0	44.0
90	138	142.4	384.9	343.0	20	23	146.0	89	46	141.5	171.5	131	0	63.5



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF
With plastic pneumatic actuator - double acting (DA)
Wafer style metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 1-2s
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Full plastic solution (actuator housing made of PP-GF)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory

Option:

- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	SP	Weight (kg)
63	2	50	10	1445	PPA40	**199 565 630**	1	2.396
75	2 ½	65	10	2530	PPA40	**199 565 631**	1	2.664
90	3	80	10	4020	PPA40	**199 565 632**	1	2.854

d (mm)	FKM Code	SP	Weight (kg)
63	**199 565 690**	1	2.396
75	**199 565 691**	1	2.664
90	**199 565 692**	1	2.854

d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H2 (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	M2 (mm)	Y (mm)	Y1 (mm)	Q2 (mm)
63	100	121.2	341.2	183.5	20	23	133.5	63	43.0	119.5	91.8	111	15	28.5
75	121	132.5	367.1	183.5	20	23	140.0	82	46.0	119.5	91.8	111	15	44.0
90	138	138.0	379.8	183.5	20	23	146.0	89	46.0	119.5	91.8	111	15	63.5



Lug-style end installation butterfly valve Type 243 PVC-U
FC (Fail safe to close)
Flange standard metric

Model:

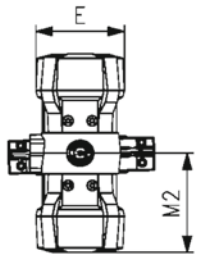
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

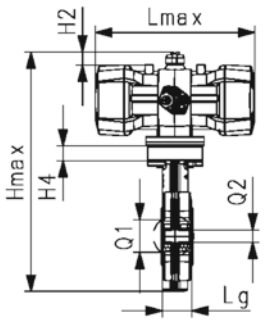
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

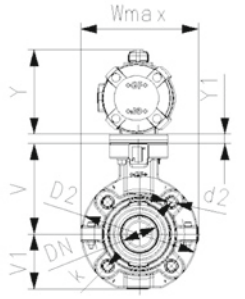
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 243 602**	1	3.499	**199 243 622**	1	3.499
75	2 ½	65	10	**199 243 603**	1	3.656	**199 243 623**	1	3.656
90	3	80	10	**199 243 604**	1	4.692	**199 243 624**	1	4.692
110	4	100	10	**199 243 605**	1	6.406	**199 243 625**	1	6.406
140	5	125	10	**199 243 606**	1	9.222	**199 243 626**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131



d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



Lug-style end installation butterfly valve Type 243 PVC-U
FO (Fail safe to open)
Flange standard metric

Model:

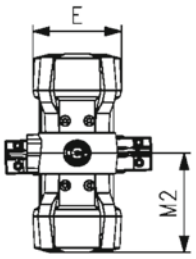
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

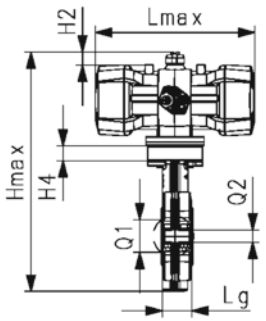
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

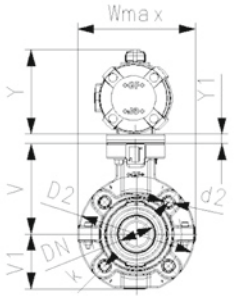
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 243 632**	1	3.499	**199 243 642**	1	3.499
75	2 ½	65	10	**199 243 633**	1	3.656	**199 243 643**	1	3.656
90	3	80	10	**199 243 634**	1	4.692	**199 243 644**	1	4.692
110	4	100	10	**199 243 635**	1	6.406	**199 243 645**	1	6.406
140	5	125	10	**199 243 636**	1	9.222	**199 243 646**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)	E (mm)
63	338.1	245.5	165	133.3	23	78.8	44.7	160	40		M16	125	111	119.5
75	351.0	245.5	182	139.9	23	85.1	45.7	180	54	35	M16	145	111	119.5
90	367.8	343.0	210	145.6	23	91.2	48.7	195	67	50	M16	160	131	141.5
110	404.5	343.0	240	166.0	23	107.5	55.6	226	88	74	M16	180	131	141.5
140	433.7	343.0	272	180.0	23	122.7	63.5	258	113	97	M16	210	131	141.5



d (mm)	Y1 (mm)	M2 (mm)
63	15	122.8
75	15	122.8
90	15	171.5
110		171.5
140		171.5



Lug-style end installation butterfly valve Type 243 PVC-U
DA (Double acting)
Flange standard metric

Model:

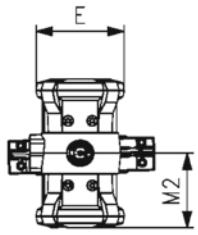
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

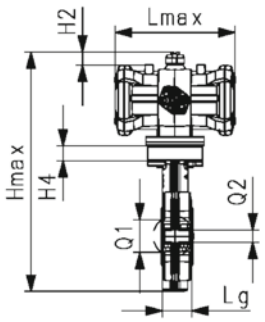
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

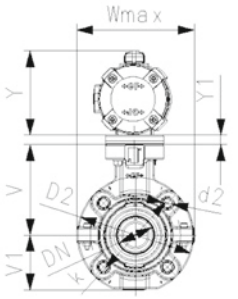
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 243 652**	1	3.499	**199 243 662**	1	3.499
75	2 ½	65	10	**199 243 653**	1	3.656	**199 243 663**	1	3.656
90	3	80	10	**199 243 654**	1	4.692	**199 243 664**	1	4.692
110	4	100	10	**199 243 655**	1	6.406	**199 243 665**	1	6.406
140	5	125	10	**199 243 656**	1	9.222	**199 243 666**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	111
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131



d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	91.75
75	119.5	15	91.75
90	119.5	15	91.75
110	141.5		130.50
140	141.5		130.50



Lug-style end installation butterfly valve type 243 PVC-C
FC (Fail safe to close)
Flange standard metric

Model:

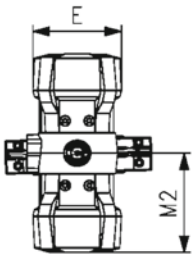
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

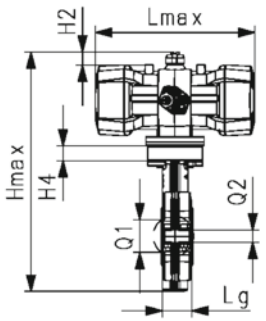
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

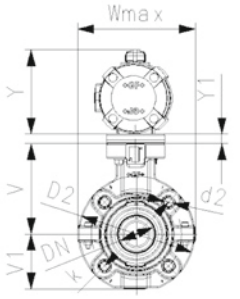
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 243 712**	1	3.499	**199 243 722**	1	3.499
75	2 ½	65	10	**199 243 713**	1	3.656	**199 243 723**	1	3.656
90	3	80	10	**199 243 714**	1	4.692	**199 243 724**	1	4.692
110	4	100	10	**199 243 715**	1	6.406	**199 243 725**	1	6.406
140	5	125	10	**199 243 716**	1	9.222	**199 243 726**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131



d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



Lug-style end installation butterfly valve type 243 PVC-C
FO (Fail safe to open)
Flange standard metric

Model:

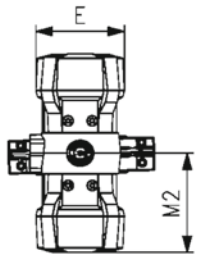
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

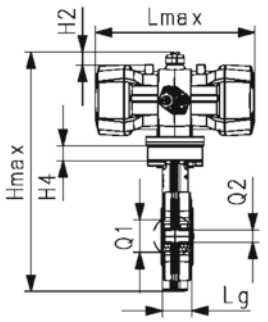
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

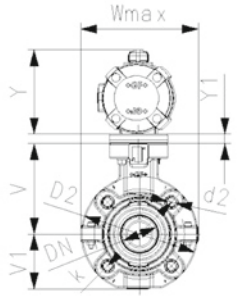
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 243 732**	1	3.499	**199 243 742**	1	3.499
75	2 ½	65	10	**199 243 733**	1	3.656	**199 243 743**	1	3.656
90	3	80	10	**199 243 734**	1	4.692	**199 243 744**	1	4.692
110	4	100	10	**199 243 735**	1	6.406	**199 243 745**	1	6.406
140	5	125	10	**199 243 736**	1	9.222	**199 243 746**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131



d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



Lug-style end installation butterfly valve type 243 PVC-C
DA (Double acting)
Flange standard metric

Model:

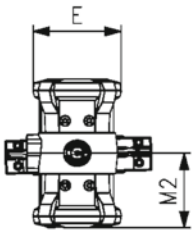
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

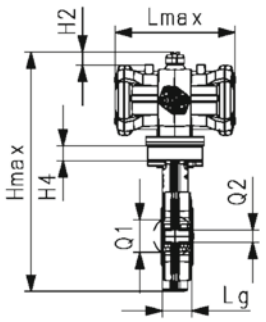
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

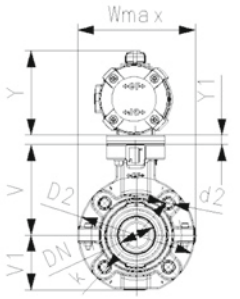
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 243 752**	1	3.499	**199 243 762**	1	3.499
75	2 ½	65	10	**199 243 753**	1	3.656	**199 243 763**	1	3.656
90	3	80	10	**199 243 754**	1	4.692	**199 243 764**	1	4.692
110	4	100	10	**199 243 755**	1	6.406	**199 243 765**	1	6.406
140	5	125	10	**199 243 756**	1	9.222	**199 243 766**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	111
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131



d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	91.75
75	119.5	15	91.75
90	119.5	15	91.75
110	141.5		130.50
140	141.5		130.50



PROGEF Standard Lug-style end installation butterfly valve type 243
FC (Fail safe to close)
Flange standard metric

Model:

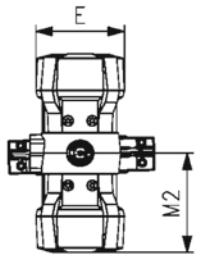
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

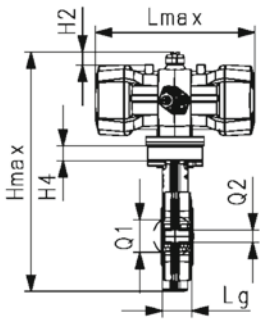
Option:

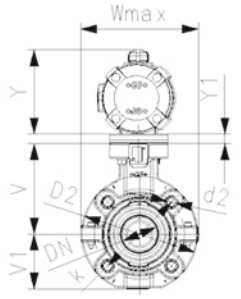
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 243 802**	1	3.499	**199 243 822**	1	3.499
75	2 ½	65	10	**199 243 803**	1	3.656	**199 243 823**	1	3.656
90	3	80	10	**199 243 804**	1	4.692	**199 243 824**	1	4.692
110	4	100	10	**199 243 805**	1	6.406	**199 243 825**	1	6.406
140	5	125	10	**199 243 806**	1	9.222	**199 243 826**	1	9.222

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	122.75
75	119.5	15	122.79
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



PROGEF Standard Lug-style end installation butterfly valve type 243
FO (Fail safe to open)
Flange standard metric

Model:

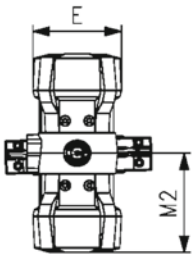
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

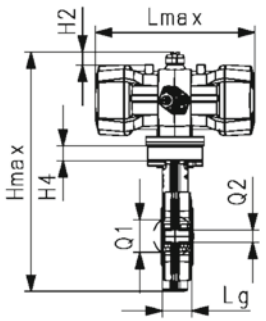
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

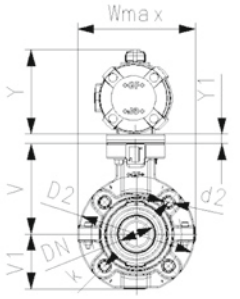
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 243 832**	1	3.499	**199 243 842**	1	3.499
75	2 ½	65	10	**199 243 833**	1	3.656	**199 243 843**	1	3.656
90	3	80	10	**199 243 834**	1	4.692	**199 243 844**	1	4.692
110	4	100	10	**199 243 835**	1	6.406	**199 243 845**	1	6.406
140	5	125	10	**199 243 836**	1	9.222	**199 243 846**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131



d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



PROGEF Standard Lug-style, end installation butterfly valve type 243
DA (Double acting)
Flange standard metric

Model:

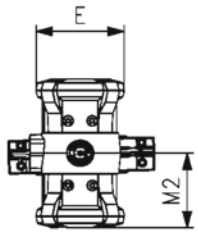
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

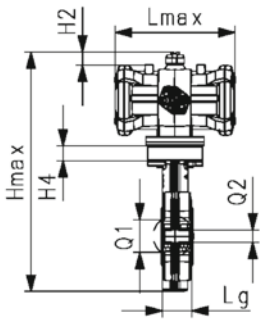
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

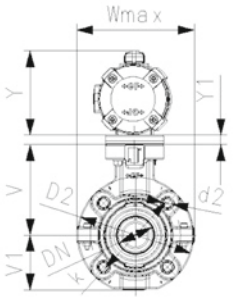
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 243 852**	1	3.499	**199 243 862**	1	3.499
75	2 ½	65	10	**199 243 853**	1	3.656	**199 243 863**	1	3.656
90	3	80	10	**199 243 854**	1	4.692	**199 243 864**	1	4.692
110	4	100	10	**199 243 855**	1	6.406	**199 243 865**	1	6.406
140	5	125	10	**199 243 856**	1	9.222	**199 243 866**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	111
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131



d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	91.75
75	119.5	15	91.75
90	119.5	15	91.75
110	141.5		130.50
140	141.5		130.50



Lug-style end installation butterfly valve type 243 ABS
FC (Fail safe to close)
Flange standard metric

Model:

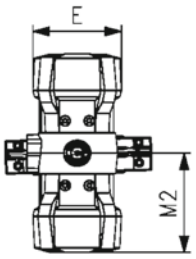
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

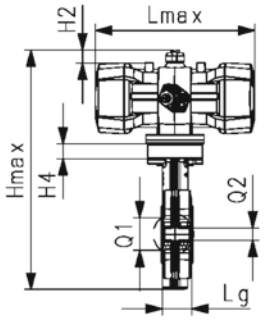
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

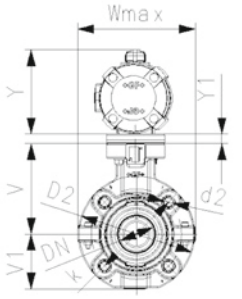
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)
63	2	50	10	**199 243 920**	1	3.499
75	2 ½	65	10	**199 243 921**	1	3.656
90	3	80	10	**199 243 922**	1	4.692
110	4	100	10	**199 243 923**	1	6.406
140	5	125	10	**199 243 924**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131



d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



Lug-style end installation butterfly valve type 243 ABS
FC (Fail safe to close)
Flange standard metric

Model:

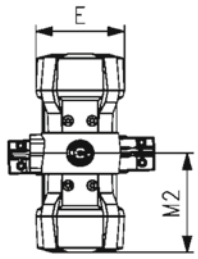
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

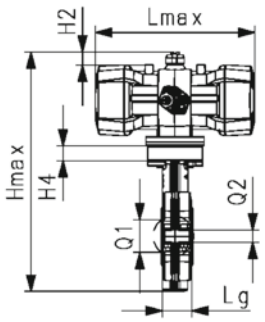
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

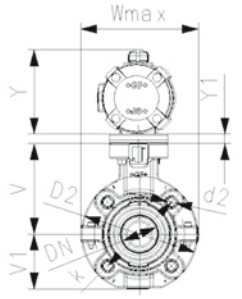
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)
63	2	50	10	**199 243 920**	1	3.499
75	2 ½	65	10	**199 243 921**	1	3.656
90	3	80	10	**199 243 922**	1	4.692
110	4	100	10	**199 243 923**	1	6.406
140	5	125	10	**199 243 924**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131



d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



Lug-style end installation butterfly valve type 243 ABS
FO (Fail safe to open)
Flange standard metric

Model:

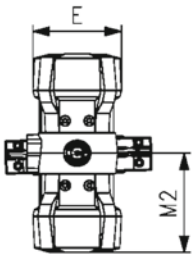
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

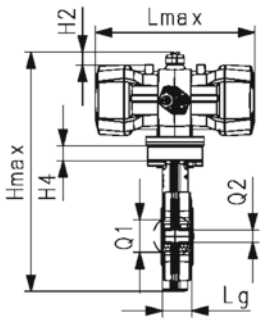
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

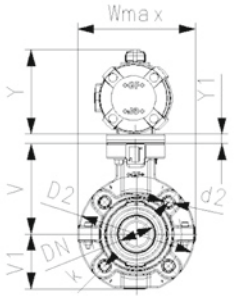
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)
63	2	50	10	**199 243 930**	1	3.499
75	2 ½	65	10	**199 243 931**	1	3.656
90	3	80	10	**199 243 932**	1	4.692
110	4	100	10	**199 243 933**	1	6.406
140	5	125	10	**199 243 934**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131



d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



Lug-style end installation butterfly valve type 243 ABS
FO (Fail safe to open)
Flange standard metric

Model:

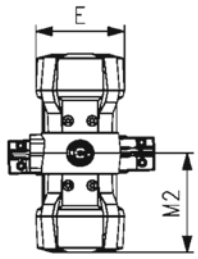
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

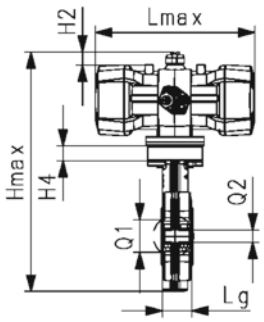
Option:

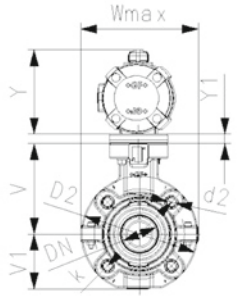
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)
63	2	50	10	**199 243 930**	1	3.499
75	2 ½	65	10	**199 243 931**	1	3.656
90	3	80	10	**199 243 932**	1	4.692
110	4	100	10	**199 243 933**	1	6.406
140	5	125	10	**199 243 934**	1	9.222

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



Lug-style end installation butterfly valve type 243 ABS
DA (Double acting)
Flange standard metric

Model:

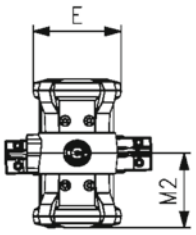
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

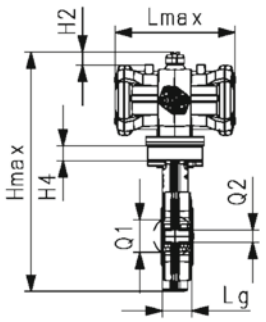
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

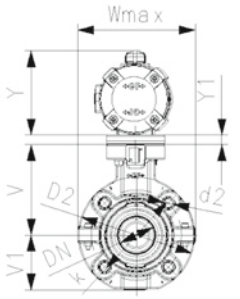
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)
63	2	50	10	**199 243 900**	1	3.499
75	2 ½	65	10	**199 243 901**	1	3.656
90	3	80	10	**199 243 902**	1	4.692
110	4	100	10	**199 243 903**	1	6.406
140	5	125	10	**199 243 904**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	111
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131



d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	91.75
75	119.5	15	91.75
90	119.5	15	91.75
110	141.5		130.50
140	141.5		130.50



SYGEF Standard Lug-style end installation butterfly valve type 243
FC (Fail safe to close)
Flange standard metric

Model:

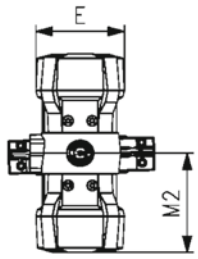
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

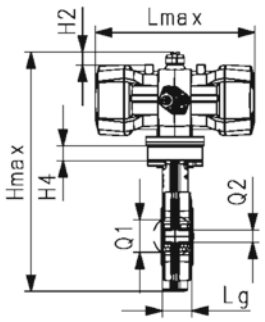
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

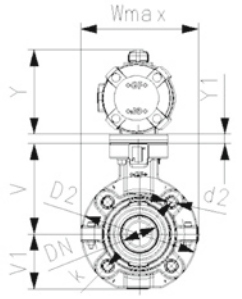
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 243 925**	1	3.499
75	2 ½	65	10	**199 243 926**	1	3.656
90	3	80	10	**199 243 927**	1	4.692
110	4	100	10	**199 243 928**	1	6.406
140	5	125	10	**199 243 929**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131



d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



SYGEF Standard Lug-style end installation butterfly valve type 243
FO (Fail safe to open)
Flange standard metric

Model:

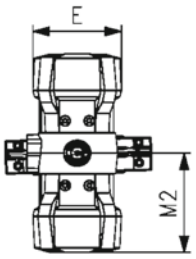
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

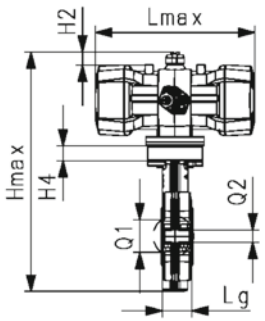
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

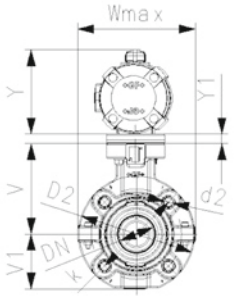
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 243 935**	1	3.499
75	2 ½	65	10	**199 243 936**	1	3.656
90	3	80	10	**199 243 937**	1	4.692
110	4	100	10	**199 243 938**	1	6.406
140	5	125	10	**199 243 939**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131



d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



SYGEF Standard Lug-style end installation butterfly valve type 243
DA (Double acting)
Flange standard metric

Model:

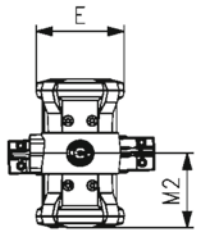
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

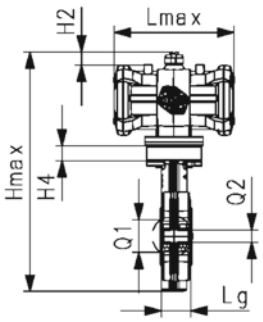
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

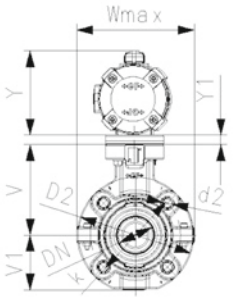
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 243 905**	1	3.499
75	2 ½	65	10	**199 243 906**	1	3.656
90	3	80	10	**199 243 907**	1	4.692
110	4	100	10	**199 243 908**	1	6.406
140	5	125	10	**199 243 909**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	111
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131



d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	91.75
75	119.5	15	91.75
90	119.5	15	91.75
110	141.5		130.50
140	141.5		130.50



SYGEF Standard Lug-style end installation butterfly valve type 243
DA (Double acting)
Flange standard metric

Model:

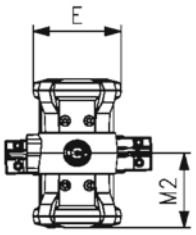
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

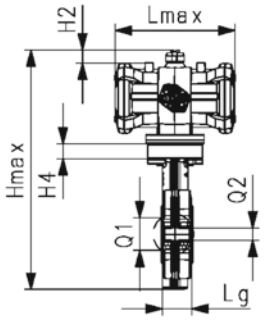
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

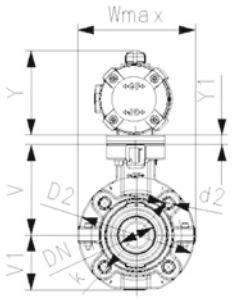
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 243 905**	1	3.499
75	2 ½	65	10	**199 243 906**	1	3.656
90	3	80	10	**199 243 907**	1	4.692
110	4	100	10	**199 243 908**	1	6.406
140	5	125	10	**199 243 909**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	111
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131

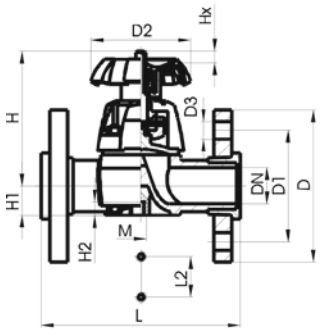


d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	91.75
75	119.5	15	91.75
90	119.5	15	91.75
110	141.5		130.50
140	141.5		130.50

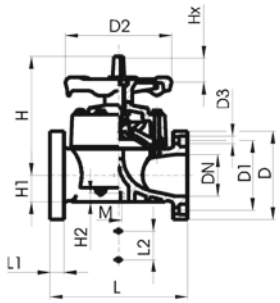
Diaphragm valves type 317



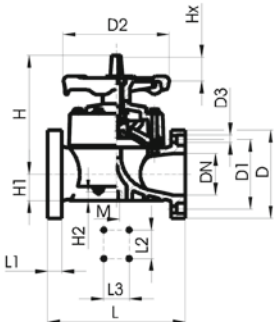




DN 15-65



DN 80-100



DN 150

PROGEF Standard Diaphragm valve type 317
With flanges metric

Model:

- Material: PP-H
- Joining faces flat/serrated
- DN65 with PP-V backing flange
- DN 80-150 with fixed flange
- Overall length according to EN 558
- Connecting dimension: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

Option:

- Handwheel lockable DN65 (basic version not lockable)

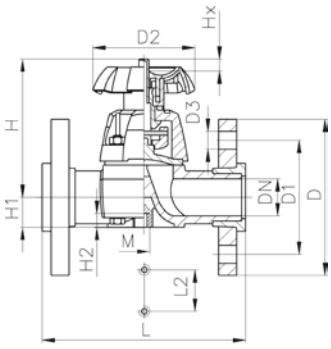
*** DN80 and DN150 fixed flanges metric and inch ANSI B16.5**

	d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	NBR Code	Weight (kg)	EPDM Code	Weight (kg)
	75	65	2 ½	10	992	**167 317 158**	4.700	**167 317 173**	4.651
*	90	80	3	10	1700	**167 317 009**	7.954	**167 317 024**	8.689
	110	100	4	10	2700	**167 317 010**	11.291	**167 317 025**	11.237
*	160	150	6	7	6033	**167 317 012**	25.000	**167 317 027**	24.707

	d (mm)	PTFE with EPDM supporting diaphragm Code	Weight (kg)
	75	**167 317 188**	5.480
*	90	**167 317 039**	8.088
	110	**167 317 040**	11.439
*	160	**167 317 042**	25.000

	d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	M	Lift = Hx (mm)	AL
	75	185	145	152	18	210	46	15	290		70		M8	35	4
*	90	200	160	270	18	265	57	23	310	35	120		M12	40	8
	110	225	180	270	18	304	69	23	350	38	120		M12	50	8
*	160	282	241	400	23	437	108	23	480	29	100	200	M12	70	8





DN 15–65

PROGEF Standard Diaphragm valve type 317
With backing flanges PP-st metric

Model:

- Material: PP-H
- Joining faces flat/serrated
- Overall length according to EN 558
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504

Option:

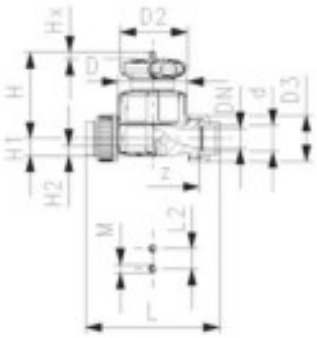
- Handwheel lockable DN15-65 (basic version not lockable)

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	PTFE with EPDM supporting diaphragm Code	Weight (kg)
75	65	2 ½	10	992	**167 317 278**	7.040

d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)	AL
75	185	145	152	18	210	46	15	290	70	M8	35	4

Diaphragm valves type 514





PROGEF Standard Diaphragm valve type 514
With fusion sockets metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

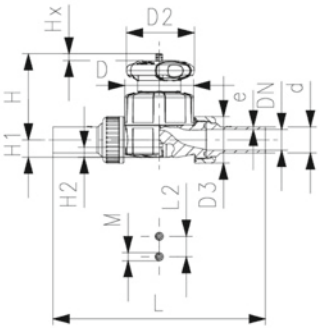
* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)
20	15	½	10	125
25	20	¾	10	271
32	25	1	10	481
40	32	1 ¼	10	759
50	40	1 ½	10	1263
63	50	2	10	1728

d (mm)	NBR Code	EPDM Code	PTFE/ EPDM* Code	FKM Code	Weight (kg)
20	**167 514 002**	**167 514 012**	**167 514 032**	**167 514 062**	0.267
25	**167 514 003**	**167 514 013**	**167 514 033**	**167 514 063**	0.391
32	**167 514 004**	**167 514 014**	**167 514 034**	**167 514 064**	1.151
40	**167 514 005**	**167 514 015**	**167 514 035**	**167 514 065**	1.277
50	**167 514 006**	**167 514 016**	**167 514 036**	**167 514 066**	1.386
63	**167 514 007**	**167 514 017**	**167 514 037**	**167 514 067**	3.030

d (mm)	D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)	closest inch (inch)
20	65	65	48	73	14	12	128	25	M6	96	7	½
25	80	65	58	81	18	12	150	25	M6	114	10	¾
32	88	87	65	107	22	12	162	25	M6	122	13	1
40	101	87	79	115	26	15	184	45	M8	140	15	1 ¼
50	117	135	91	148	32	15	210	45	M8	160	19	1 ½
63	144	135	111	166	39	15	248	45	M8	190	25	2





PROGEF Standard Diaphragm valve type 514
With butt fusion spigots SDR11 metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

Option:

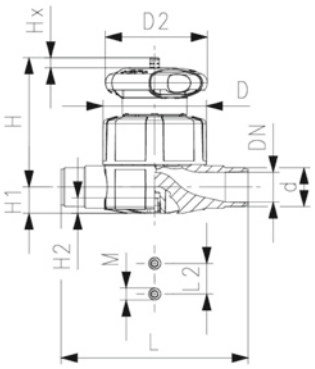
- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	NBR Code	EPDM Code	PTFE/ EPDM* Code	FKM Code
20	15	½	10	125	**167 514 102**	**167 514 112**	**167 514 132**	**167 514 162**
25	20	¾	10	271	**167 514 103**	**167 514 113**	**167 514 133**	**167 514 163**
32	25	1	10	481	**167 514 104**	**167 514 114**	**167 514 134**	**167 514 164**
40	32	1 ¼	10	759	**167 514 105**	**167 514 115**	**167 514 135**	**167 514 165**
50	40	1 ½	10	1263	**167 514 106**	**167 514 116**	**167 514 136**	**167 514 166**
63	50	2	10	1728	**167 514 107**	**167 514 117**	**167 514 137**	**167 514 167**

d (mm)	D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)	closest inch (inch)
20	65	65	48	73	14	12	196	25	M6	1.9	7	½
25	80	65	58	81	18	12	221	25	M6	2.3	10	¾
32	88	87	65	107	22	12	234	25	M6	2.9	13	1
40	101	87	79	115	26	15	260	45	M8	3.7	15	1 ¼
50	117	135	91	148	32	15	284	45	M8	4.6	19	1 ½
63	144	135	111	166	39	15	321	45	M8	5.8	25	2

Diaphragm valves type 515





PROGEF Standard Diaphragm valve type 515
With socket fusion spigots metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Overall length EN 558

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)
20	15	½	10	125
25	20	¾	10	271
32	25	1	10	481
40	32	1 ¼	10	759
50	40	1 ½	10	1263
63	50	2	10	1728

d (mm)	NBR Code	EPDM Code	PTFE/ EPDM* Code	FKM Code	Weight (kg)
20	**167 515 002**	**167 515 012**	**167 515 032**	**167 515 062**	0.298
25	**167 515 003**	**167 515 013**	**167 515 033**	**167 515 063**	0.293
32	**167 515 004**	**167 515 014**	**167 515 034**	**167 515 064**	0.950
40	**167 515 005**	**167 515 015**	**167 515 035**	**167 515 065**	1.108
50	**167 515 006**	**167 515 016**	**167 515 036**	**167 515 066**	2.057
63	**167 515 007**	**167 515 017**	**167 515 037**	**167 515 067**	2.604

d (mm)	D (mm)	D2 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)	closest inch (inch)
20	65	65	73	14	12	124	25	M6	1.9	7	½
25	80	65	81	18	12	144	25	M6	2.3	10	¾
32	88	87	107	22	12	154	25	M6	2.9	13	1
40	101	87	115	26	15	174	45	M8	3.7	15	1 ¼
50	117	135	148	32	15	194	45	M8	4.6	19	1 ½
63	144	135	166	39	15	223	45	M8	5.8	25	2



PROGEF Standard Diaphragm valve type 515
With butt fusion spigots SDR11 metric

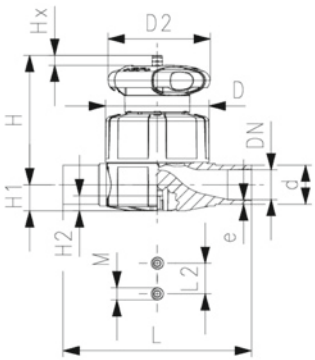
Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Overall length EN 558

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

* O-Ring material: FKM



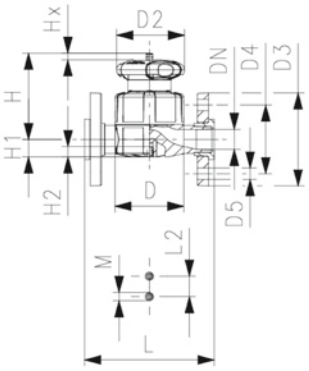
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)
20	15	½	10	125
25	20	¾	10	271
32	25	1	10	481
40	32	1 ¼	10	759
50	40	1 ½	10	1263
63	50	2	10	1728

d (mm)	NBR Code	EPDM Code	PTFE/ EPDM* Code	FKM Code	Weight (kg)
20	**167 515 102**	**167 515 112**	**167 515 132**	**167 515 162**	0.297
25	**167 515 103**	**167 515 113**	**167 515 133**	**167 515 163**	0.381
32	**167 515 104**	**167 515 114**	**167 515 134**	**167 515 164**	0.948
40	**167 515 105**	**167 515 115**	**167 515 135**	**167 515 165**	1.104
50	**167 515 106**	**167 515 116**	**167 515 136**	**167 515 166**	2.052
63	**167 515 107**	**167 515 117**	**167 515 137**	**167 515 167**	2.601

d (mm)	D (mm)	D2 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)	closest inch (inch)
20	65	65	73	14	12	124	25	M6	1.9	7	½
25	80	65	81	18	12	144	25	M6	2.3	10	¾
32	88	87	107	22	12	155	25	M6	2.9	13	1
40	101	87	115	26	15	176	45	M8	3.7	15	1 ¼
50	117	135	148	32	15	193	45	M8	4.6	19	1 ½
63	144	135	166	39	15	223	45	M8	5.8	25	2

Diaphragm valves type 517





PROGEF Standard Diaphragm valve type 517
With backing flanges PP-V metric/BS

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Joining faces flat/serrated
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

* O-Ring material: FKM

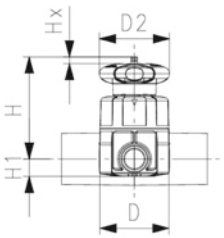
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)
20	15	½	10	125
25	20	¾	10	271
32	25	1	10	481
40	32	1 ¼	10	759
50	40	1 ½	10	1263
63	50	2	10	1728

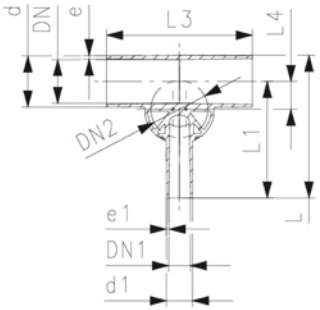
d (mm)	NBR Code	EPDM Code	PTFE/ EPDM* Code	FKM Code	Weight (kg)
20	**167 517 102**	**167 517 112**	**167 517 132**	**167 517 162**	0.480
25	**167 517 103**	**167 517 113**	**167 517 133**	**167 517 163**	0.629
32	**167 517 104**	**167 517 114**	**167 517 134**	**167 517 164**	1.296
40	**167 517 105**	**167 517 115**	**167 517 135**	**167 517 165**	1.640
50	**167 517 106**	**167 517 116**	**167 517 136**	**167 517 166**	2.601
63	**167 517 107**	**167 517 117**	**167 517 137**	**167 517 167**	3.544

d (mm)	D (mm)	D2 (mm)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)	closest inch (inch)
20	65	65	95	65	14	73	14	12	130	25	M6	7	½
25	80	65	105	75	14	81	18	12	150	25	M6	10	¾
32	88	87	115	85	14	107	22	12	160	25	M6	13	1
40	101	87	140	100	18	115	26	15	180	45	M8	15	1 ¼
50	117	135	150	110	18	148	32	15	200	45	M8	19	1 ½
63	144	135	165	125	18	166	39	15	230	45	M8	25	2

Diaphragm valves type 519







PROGEF Standard Diaphragm valve type 519
With butt fusion spigots metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Smallest possible dead space

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

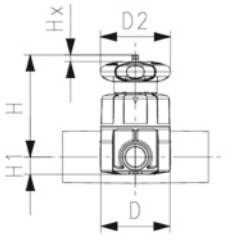
* O-Ring material: FKM

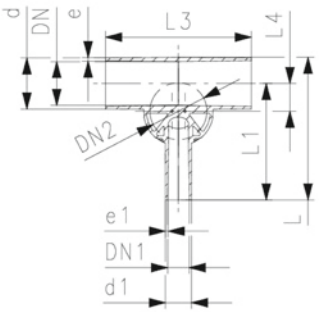
d (mm)	d1 (mm)	DN (mm)	DN1 (mm)	Size (inch)	Valve Size d (mm)	SDR	PN (bar)	kv-value (Δp=1 bar) (l/min)
20	20	15	15	½	20	11	10	57
25	20	20	15	¾	25	11	10	89
25	25	20	20	¾	25	11	10	118
32	20	25	15	1	25	11	10	80
32	25	25	20	1	25	11	10	105
32	32	25	25	1	32	11	10	231
40	20	32	15	1 ¼	32	11	10	85
40	40	32	32	1 ¼	32	11	10	187
50	20	40	15	1 ½	25	11	10	86
50	25	40	20	1 ½	32	11	10	160
50	32	40	25	1 ½	32	11	10	206
63	20	50	15	2	25	11	10	84
63	25	50	20	2	32	11	10	150
63	32	50	25	2	32	11	10	184

d (mm)	EPDM Code	PTFE/ EPDM* Code	Weight (kg)
20	**167 519 101**	**167 519 301**	0.321
25	**167 519 103**	**167 519 303**	0.397
25	**167 519 104**	**167 519 304**	0.399
32	**167 519 107**	**167 519 307**	0.424
32	**167 519 108**	**167 519 308**	0.426
32	**167 519 109**	**167 519 309**	0.980
40	**167 519 112**	**167 519 312**	0.553
40	**167 519 115**	**167 519 315**	1.034
50	**167 519 118**	**167 519 318**	0.485
50	**167 519 119**	**167 519 319**	1.054
50	**167 519 120**	**167 519 320**	1.056
63	**167 519 125**	**167 519 325**	0.525
63	**167 519 126**	**167 519 326**	1.097
63	**167 519 127**	**167 519 327**	1.100

d (mm)	D (mm)	D2 (mm)	H (mm)	L (mm)	L1 (mm)	L3 (mm)	L4 (mm)	e (mm)	Lift = Hx (mm)	DN2 (mm)	closest inch (inch)	e1 (mm)
20	65	65	75	117	96	162	12	1.9	7	15	½	1.9
25	80	65	80	133	108	162	16	2.3	10	20	¾	1.9
25	80	65	80	133	108	162	16	2.3	10	20	¾	2.3
32	80	65	84	142	120	162	19	2.9	10	20	1	1.9
32	80	65	84	142	120	162	19	2.9	10	20	1	2.3
32	88	87	107	145	120	160	19	2.9	13	25	1	2.9
40	88	87	115	149	128	180	23	3.7	13	25	1 ¼	1.9
40	88	87	115	174	153	180	23	3.7	13	25	1 ¼	3.7
50	80	65	97	160	134	180	27	4.6	10	20	1 ½	1.9

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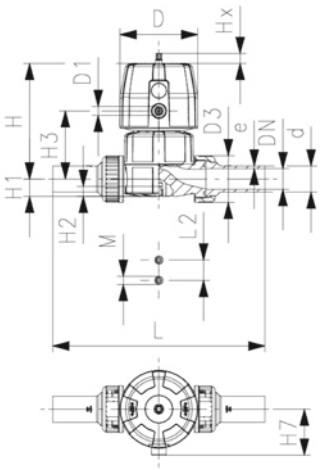




d (mm)	D (mm)	D2 (mm)	H (mm)	L (mm)	L1 (mm)	L3 (mm)	L4 (mm)	e (mm)	Lift = Hx (mm)	DN2 (mm)	closest inch (inch)	e1 (mm)
50	88	87	120	160	134	180	28	4.6	13	25	1 ½	2.3
50	88	87	120	160	134	180	28	4.6	13	25	1 ½	2.9
63	80	65	104	177	144	180	33	5.8	10	20	2	1.9
63	88	87	127	177	144	180	35	5.8	13	25	2	2.3
63	88	87	127	177	144	180	35	5.8	13	25	2	2.9

Diaphragm valves pneumatic DIASTAR Six





PROGEF Standard Diaphragm valve DIASTAR Six
FC (Fail safe to close)
Unions with butt fusion spigots SDR11 metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

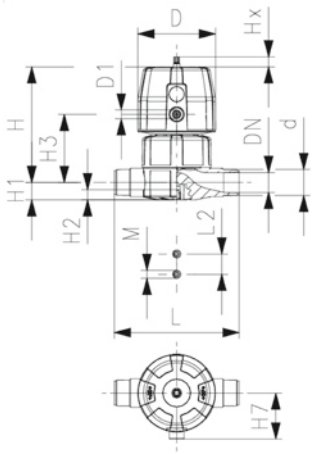
Option:

- Individual configuration of the valve

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
25	20	¾	6	271	**167 614 113**	0.871	**800 047 262**	1.760
32	25	1	6	481	**167 614 114**	1.589	**800 047 263**	2.610
40	32	1 ¼	6	759	**167 614 115**	1.805	**800 047 259**	3.760
50	40	1 ½	6	960	**167 614 116**	2.279	**800 047 264**	6.220
63	50	2	6	1181	**167 614 117**	3.421	**800 047 265**	7.800

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)	closest inch (inch)
25	96	⅛	132	18	12	73	57	221	25	M6	2.3	10	¾
32	96	⅛	143	22	12	84	57	234	25	M6	2.9	13	1
40	120	⅛	173	26	15	99	69	260	45	M8	3.7	14	1 ¼
50	120	⅛	193	32	15	119	69	284	45	M8	4.6	16	1 ½
63	120	⅛	205	39	15	132	69	321	45	M8	5.8	16	2





PROGEF Standard Diaphragm valve DIASTAR Six
FC (Fail safe to close)
With socket fusion spigots metric

Model:

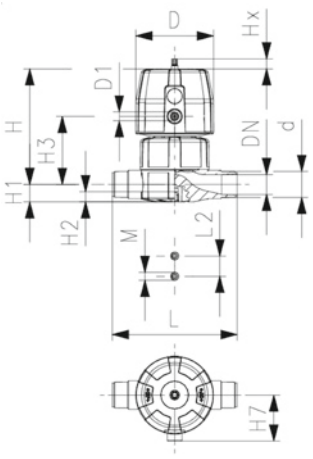
- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

- Individual configuration of the valve

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
25	20	¾	6	271	**167 615 013**	0.904
32	25	1	6	481	**167 615 014**	1.054
40	32	1 ¼	6	759	**167 615 015**	1.747
50	40	1 ½	6	960	**167 615 016**	2.207
63	50	2	6	1181	**167 615 017**	2.981

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d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)	closest inch (inch)
25	96	⅛	132	18	12	73	57	144	25	M6	2.3	10	¾
32	96	⅛	143	22	12	84	57	154	25	M6	2.9	13	1
40	120	⅛	173	26	15	99	69	174	45	M8	3.7	14	1 ¼
50	120	⅛	193	32	15	119	69	194	45	M8	4.6	16	1 ½
63	120	⅛	205	39	15	132	69	224	45	M8	5.8	16	2



PROGEF Standard Diaphragm valve DIASTAR Six FC (Fail safe to close) With butt fusion spigots SDR11 metric

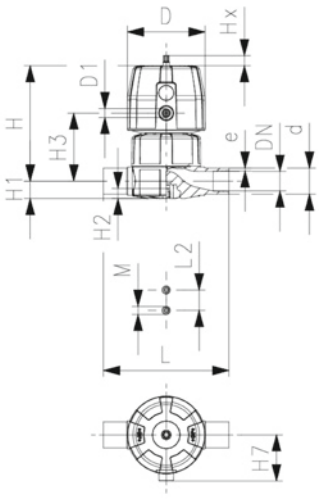
Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

- Individual configuration of the valve

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
25	20	¾	6	271	**167 615 113**	0.900
32	25	1	6	481	**167 615 114**	1.062
40	32	1 ¼	6	759	**167 615 115**	1.743
50	40	1 ½	6	960	**167 615 116**	2.202
63	50	2	6	1181	**167 615 117**	2.978



d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)	closest inch (inch)
25	96	⅛	132	18	12	73	57	144	25	M6	2.3	10	¾
32	96	⅛	143	22	12	84	57	154	25	M6	2.9	13	1
40	120	⅛	173	26	15	99	69	174	45	M8	3.7	14	1 ¼
50	120	⅛	193	32	15	119	69	194	45	M8	4.6	16	1 ½
63	120	⅛	205	39	15	132	69	224	45	M8	5.8	16	2



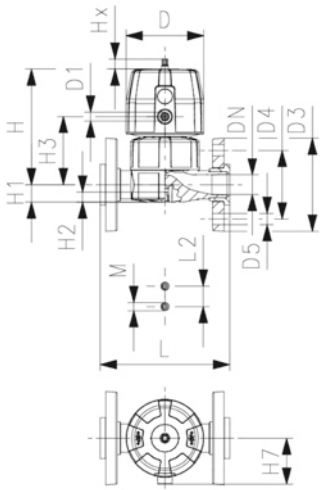
PROGEF Standard Diaphragm valve DIASTAR Six
FC (Fail safe to close)
With backing flanges PP-V metric/BS

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
25	20	¾	6	271	**167 617 113**	1.148
32	25	1	6	481	**167 617 114**	1.410
40	32	1 ¼	6	759	**167 617 115**	2.279
50	40	1 ½	6	960	**167 617 116**	2.751
63	50	2	6	1181	**167 617 117**	3.921

d (mm)	D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)
25	96	⅛	105	75	14	132	18	12	73	57	150	25	M6	10
32	96	⅛	115	85	14	143	22	12	84	69	160	25	M6	13
40	120	⅛	140	100	18	173	26	15	99	69	180	45	M8	14
50	120	⅛	150	110	18	193	32	15	119	69	200	45	M8	16
63	120	⅛	165	125	18	205	39	15	132	69	230	45	M8	16

d (mm)	closest inch (inch)
25	¾
32	1
40	1 ¼
50	1 ½
63	2



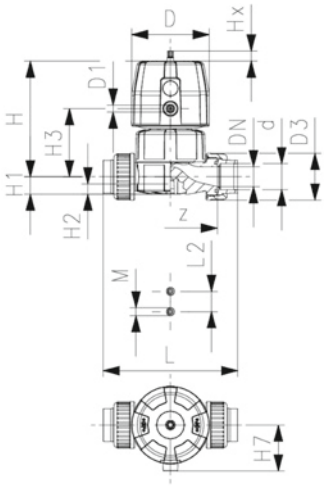
PROGEF Standard Diaphragm valve DIASTAR Six
FC (Fail safe to close)
Unions with fusion sockets metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve

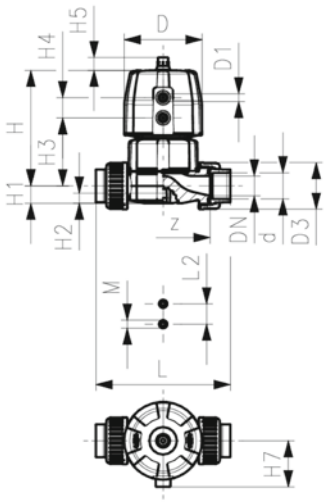


d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
25	20	¾	6	271	**167 614 013**	0.974
32	25	1	6	481	**167 614 014**	1.180
40	32	1 ¼	6	759	**167 614 015**	1.949
50	40	1 ½	6	960	**167 614 016**	2.450
63	50	2	6	1181	**167 614 017**	3.153

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)	closest inch (inch)
25	96	⅛	132	18	12	73	57	150	25	M6	114	10	¾
32	96	⅛	143	22	12	84	57	162	25	M6	122	13	1
40	120	⅛	173	26	15	99	69	184	45	M8	140	14	1 ¼
50	120	⅛	193	32	15	119	69	210	45	M8	160	16	1 ½
63	120	⅛	205	39	15	132	69	248	45	M8	190	16	2

Diaphragm valves pneumatic DIASTAR Ten





PROGEF Standard Diaphragm valve DIASTAR Ten
FC (Fail safe to close)
Unions with fusion sockets metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

Working Pressure: **one side**
*Material O-ring (for PFTE diaphragms): FKM

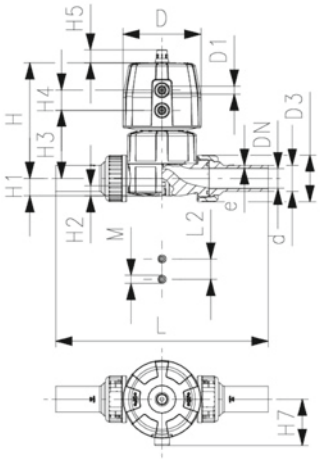
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	125	**167 624 012**	0.524	**167 624 062**	0.555
25	20	¾	10	271	**167 624 013**	1.061	**167 624 063**	1.082
32	25	1	10	481	**167 624 014**	1.272	**167 624 064**	1.267
40	32	1 ¼	10	759	**167 624 015**	2.123	**167 624 065**	2.066
50	40	1 ½	10	1263	**167 624 016**	3.593	**167 624 066**	3.593
63	50	2	6	1728	**167 624 017**	4.195	**167 624 067**	4.328

d (mm)	PTFE/EPDM Code	Weight (kg)
20	**167 624 032**	0.526
25	**167 624 033**	1.071
32	**167 624 034**	1.286
40	**167 624 035**	2.152
50	**167 624 036**	3.623
63	**167 624 037**	5.032

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
20	68	⅛	101	14	12	60	24	16	43	128	25	M6	96	7
25	96	⅛	132	18	12	73	25	16	57	150	25	M6	114	10
32	96	⅛	143	22	12	84	25	16	57	162	25	M6	122	13
40	120	⅛	173	26	15	99	26	26	69	184	45	M8	140	15
50	150	¼	214	32	15	119	36	26	88	210	45	M8	160	19
63	150	¼	226	39	15	132	36	26	88	248	45	M8	190	23

d (mm)	closest inch (inch)
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2





PROGEF Standard Diaphragm valve DIASTAR Ten
FC (Fail safe to close)
Unions with butt fusion spigots SDR11 metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	10*	125	**167 624 112**	0.534	**167 624 162**	0.564
25	20	¾	10	10*	271	**167 624 113**	0.975	**167 624 163**	1.094
32	25	1	10	10*	481	**167 624 114**	1.679	**167 624 164**	1.287
40	32	1 ¼	10	10*	759	**167 624 115**	2.656	**167 624 165**	2.098
50	40	1 ½	10	10*	1263	**167 624 116**	3.470	**167 624 166**	3.601
63	50	2	10	10*	1728	**167 624 117**	5.087	**167 624 167**	4.342

d (mm)	PTFE/ EPDM* Code	Weight (kg)
20	**167 624 132**	0.533
25	**167 624 133**	0.971
32	**167 624 134**	1.698
40	**167 624 135**	2.682
50	**167 624 136**	4.378
63	**167 624 137**	4.076

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)
20	68	⅛	101	14	12	60	24	16	43	196	25	M6	1.9	7
25	96	⅛	132	18	12	73	25	16	57	221	25	M6	2.3	10
32	96	⅛	143	22	12	84	25	16	57	234	25	M6	2.9	13
40	120	⅛	173	26	15	99	26	26	69	260	45	M8	3.7	15
50	150	¼	214	32	15	119	36	26	88	284	45	M8	4.6	19
63	150	¼	226	39	15	132	36	26	88	321	45	M8	5.8	23

d (mm)	closest inch (inch)
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2



PROGEF Standard Diaphragm valve DIASTAR Ten
FO (Fail safe to open)
Unions with fusion sockets metric

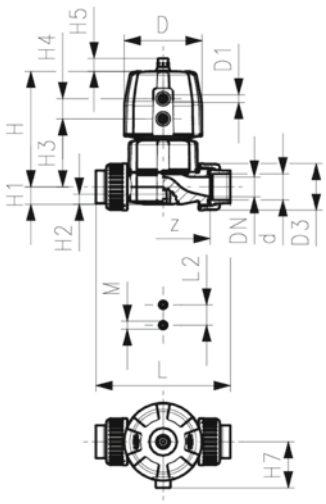
Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM

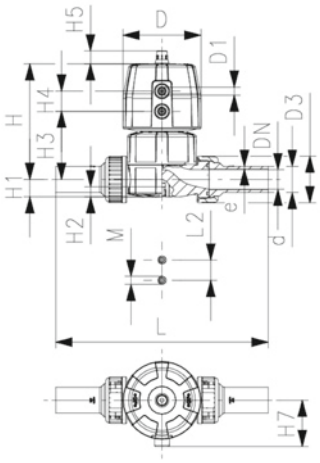


d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**167 644 012**	0.469	**167 644 032**	0.515
25	20	¾	10	10*	271	**167 644 013**	0.908	**167 644 033**	0.920
32	25	1	10	10*	481	**167 644 014**	1.070	**167 644 034**	1.079
40	32	1 ¼	10	10*	759	**167 644 015**	1.706	**167 644 035**	1.726
50	40	1 ½	10	10*	1263	**167 644 016**	3.503	**167 644 036**	3.533
63	50	2	10	10*	1728	**167 644 017**	4.238	**167 644 037**	4.266

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
20	68	⅛	101	14	12	60	24	16	43	128	25	M6	96	7
25	96	⅛	132	18	12	73	25	16	57	150	25	M6	114	10
32	96	⅛	143	22	12	84	25	16	57	162	25	M6	122	13
40	120	⅛	173	26	15	99	26	26	69	184	45	M8	140	15
50	150	¼	214	32	15	119	36	26	88	210	45	M8	160	19
63	150	¼	226	39	15	132	36	26	88	248	45	M8	190	23

d (mm)	closest inch (inch)
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2





PROGEF Standard Diaphragm valve DIASTAR Ten
FO (Fail safe to open)
Unions with butt fusion spigots SDR11 metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**167 644 112**	0.477	**167 644 132**	0.510
25	20	¾	10	10*	271	**167 644 113**	0.920	**167 644 133**	0.932
32	25	1	10	10*	481	**167 644 114**	0.954	**167 644 134**	1.482
40	32	1 ¼	10	10*	759	**167 644 115**	1.738	**167 644 135**	1.647
50	40	1 ½	10	10*	1263	**167 644 116**	2.814	**167 644 136**	3.541
63	50	2	10	10*	1728	**167 644 117**	4.413	**167 644 137**	3.426

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)
20	68	⅛	101	14	12	60	24	16	43	196	25	M6	1.9	7
25	96	⅛	132	18	12	73	25	16	57	221	25	M6	2.3	10
32	96	⅛	143	22	12	84	25	16	57	234	25	M6	2.9	13
40	120	⅛	173	26	15	99	26	26	69	260	45	M8	3.7	15
50	150	¼	214	32	15	119	36	26	69	284	45	M8	4.6	19
63	150	¼	226	39	15	132	36	26	69	321	45	M8	5.8	23

d (mm)	closest inch (inch)
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2



PROGEF Standard Diaphragm valve DIASTAR Ten
FO (Fail safe to open)
With socket fusion spigots metric

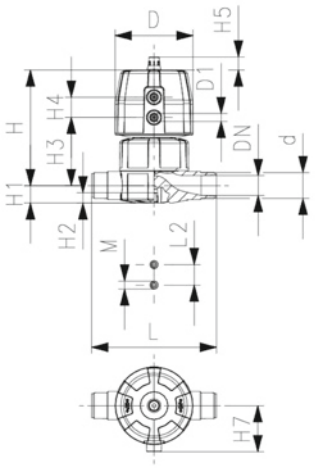
Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**167 645 012**	0.442	**167 645 032**	0.452
25	20	¾	10	10*	271	**167 645 013**	0.805	**167 645 033**	0.816
32	25	1	10	10*	481	**167 645 014**	0.956	**167 645 034**	0.976
40	32	1 ¼	10	10*	759	**167 645 015**	1.537	**167 645 035**	1.557
50	40	1 ½	10	10*	1263	**167 645 016**	3.255	**167 645 036**	3.285
63	50	2	10	10*	1728	**167 645 017**	3.812	**167 645 037**	3.840

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)
20	68	⅛	101	14	12	60	24	16	43	124	25	M6	1.9	7
25	96	⅛	132	18	12	73	25	16	57	144	25	M6	2.3	10
32	96	⅛	143	22	12	84	25	16	57	154	25	M6	2.9	13
40	120	⅛	173	26	15	99	26	26	69	174	45	M8	3.7	15
50	150	¼	214	32	15	119	36	26	88	194	45	M8	4.6	19
63	150	¼	226	39	15	132	36	26	88	224	45	M8	5.8	23

d (mm)	closest inch (inch)
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2



PROGEF Standard Diaphragm valve DIASTAR Ten
DA (Double acting)
Unions with fusion sockets metric

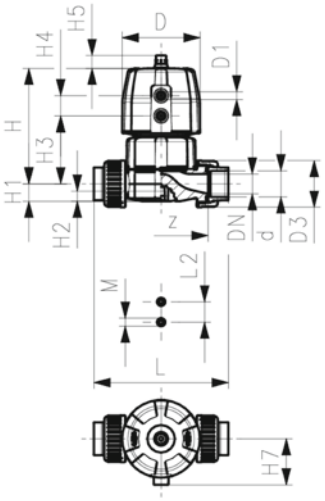
Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM

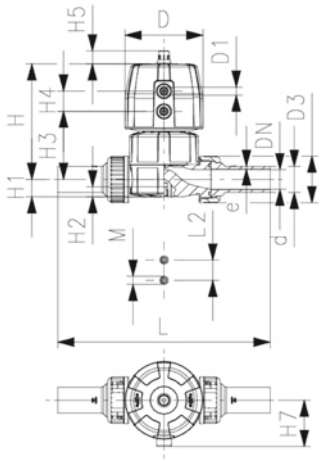


d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**167 654 012**	0.474	**167 654 032**	0.499
25	20	¾	10	10*	271	**167 654 013**	0.872	**167 654 033**	0.884
32	25	1	10	10*	481	**167 654 014**	1.057	**167 654 034**	1.077
40	32	1 ¼	10	10*	759	**167 654 015**	1.806	**167 654 035**	1.666
50	40	1 ½	10	10*	1263	**167 654 016**	2.954	**167 654 036**	2.783
63	50	2	10	10*	1728	**167 654 017**	3.516	**167 654 037**	3.516

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
20	68	⅛	101	14	12	60	24	16	43	128	25	M6	96	7
25	96	⅛	132	18	12	73	25	16	57	150	25	M6	114	10
32	96	⅛	143	22	12	84	25	16	57	162	25	M6	122	13
40	120	⅛	173	26	15	99	26	26	69	184	45	M8	140	15
50	150	¼	214	32	15	119	36	26	88	210	45	M8	160	19
63	150	¼	226	39	15	132	36	26	88	248	45	M8	190	23

d (mm)	closest inch (inch)
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2





PROGEF Standard Diaphragm valve DIASTAR Ten
DA (Double acting)
Unions with butt fusion spigots SDR11 metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**167 654 112**	0.498	**167 654 132**	0.507
25	20	¾	10	10*	271	**167 654 113**	0.884	**167 654 133**	0.896
32	25	1	10	10*	481	**167 654 114**	1.077	**167 654 134**	1.097
40	32	1 ¼	10	10*	759	**167 654 115**	1.678	**167 654 135**	1.698
50	40	1 ½	10	10*	1263	**167 654 116**	2.761	**167 654 136**	2.791
63	50	2	10	10*	1728	**167 654 117**	3.502	**167 654 137**	3.530

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)
20	68	⅛	101	14	12	60	24	16	43	196	25	M6	1.9	7
25	96	⅛	132	18	12	73	25	16	57	221	25	M6	2.3	10
32	96	⅛	143	22	12	84	25	16	57	234	25	M6	2.9	13
40	120	⅛	173	26	15	99	26	26	69	260	45	M8	3.7	15
50	150	¼	214	32	15	119	36	26	69	284	45	M8	4.6	19
63	150	¼	226	39	15	132	36	26	69	321	45	M8	5.8	23

d (mm)	closest inch (inch)
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2



PROGEF Standard Diaphragm valve DIASTAR Ten
DA (Double acting)
With socket fusion spigots metric

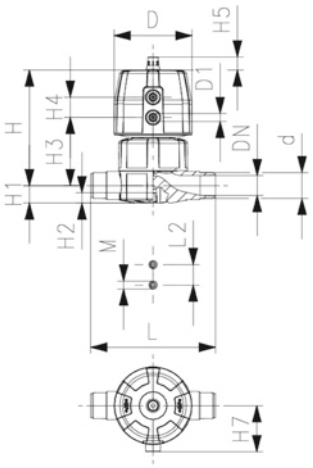
Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM

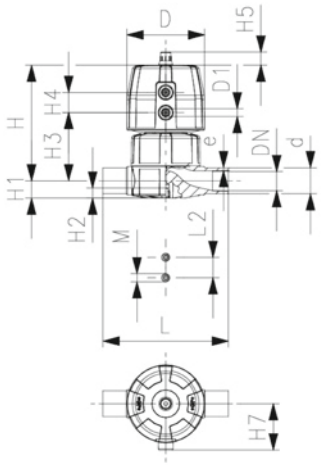


d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**167 655 012**	0.426	**167 655 032**	0.436
25	20		10	10*	271	**167 655 013**	0.768	**167 655 033**	0.780
32	25		10	10*	481	**167 655 014**	0.925	**167 655 034**	0.946
40	32		10	10*	759	**167 655 015**	1.477	**167 655 035**	1.497
50	40		10	10*	1263	**167 655 016**	2.505	**167 655 036**	2.535
63	50		10	10*	1728	**167 655 017**	3.062	**167 655 037**	3.090

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)	e (mm)
20	68	⅛	101	14	12	60	24	16	43	124	25	M6	7	1.9
25	96	⅛	132	18	12	73	25	16	57	144	25	M6	10	2.3
32	96	⅛	143	22	12	84	25	16	57	154	25	M6	13	2.9
40	120	⅛	173	26	15	99	26	26	69	174	45	M8	15	3.7
50	150	¼	214	32	15	119	36	26	88	194	45	M8	19	4.6
63	150	¼	226	39	15	132	36	26	88	224	45	M8	23	5.8

d (mm)	closest inch (inch)
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2





PROGEF Standard Diaphragm valve DIASTAR Ten
DA (Double acting)
With butt fusion spigots SDR11 metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**167 655 112**	0.425	**167 655 132**	0.435
25	20	¾	10	10*	271	**167 655 113**	0.765	**167 655 133**	0.776
32	25	1	10	10*	481	**167 655 114**	0.924	**167 655 134**	0.944
40	32	1 ¼	10	10*	759	**167 655 115**	1.473	**167 655 135**	1.493
50	40	1 ½	10	10*	1263	**167 655 116**	2.500	**167 655 136**	2.530
63	50	2	10	10*	1728	**167 655 117**	3.059	**167 655 137**	3.087

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)
20	68	⅛	101	14	12	60	24	16	43	124	25	M6	1.9	7
25	96	⅛	132	18	12	73	25	16	57	144	25	M6	2.3	10
32	96	⅛	143	22	12	84	25	16	57	154	25	M6	2.9	13
40	120	⅛	173	26	15	99	26	26	69	174	45	M8	3.7	15
50	150	¼	214	32	15	119	36	26	88	194	45	M8	4.6	19
63	150	¼	226	39	15	132	36	26	88	224	45	M8	5.8	23

d (mm)	closest inch (inch)
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2



PROGEF Standard Diaphragm valve DIASTAR Ten
DA (Double acting)
With backing flanges PP-V metric/BS

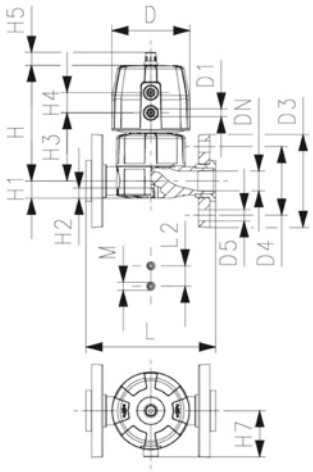
Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM

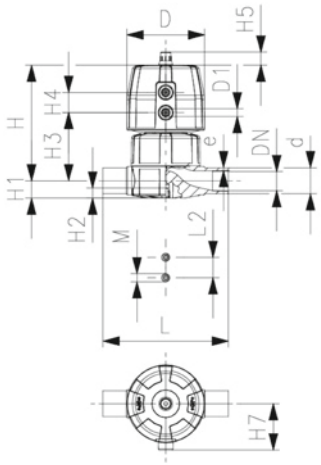


d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**167 657 112**	0.608	**167 657 132**	0.618
25	20	¾	10	10*	271	**167 657 113**	1.013	**167 657 133**	1.024
32	25	1	10	10*	481	**167 657 114**	1.272	**167 657 134**	1.292
40	32	1 ¼	10	10*	759	**167 657 115**	2.009	**167 657 135**	2.029
50	40	1 ½	10	10*	1263	**167 657 116**	3.049	**167 657 136**	3.079
63	50	2	10	10*	1728	**167 657 117**	4.002	**167 657 137**	4.030

d (mm)	D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
20	68	⅛	95	65	14	101	14	12	60	24	16	57	130	25	M6
25	96	⅛	105	75	14	132	18	12	73	25	16	57	150	25	M6
32	96	⅛	115	85	14	143	22	12	84	25	16	69	160	25	M6
40	120	⅛	140	100	18	173	26	15	99	26	26	88	180	45	M8
50	150	¼	150	110	18	214	32	15	119	36	26	103	200	45	M8
63	150	¼	165	125	18	226	39	15	132	36	26	103	230	45	M8

d (mm)	Lift = Hx (mm)	closest inch (inch)
20	7	½
25	10	¾
32	13	1
40	15	1 ¼
50	19	1 ½
63	23	2





PROGEF Standard Diaphragm valve DIASTAR Ten
FO (Fail safe to open)
With butt fusion spigots SDR11 metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**167 645 112**	0.441	**167 645 132**	0.451
25	20	¾	10	10*	271	**167 645 113**	0.801	**167 645 133**	0.812
32	25	1	10	10*	481	**167 645 114**	0.954	**167 645 134**	0.974
40	32	1 ¼	10	10*	759	**167 645 115**	1.533	**167 645 135**	1.553
50	40	1 ½	10	10*	1263	**167 645 116**	3.250	**167 645 136**	3.280
63	50	2	10	10*	1728	**167 645 117**	3.809	**167 645 137**	3.837

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)
20	68	⅛	101	14	12	60	24	16	43	124	25	M6	1.9	7
25	96	⅛	132	18	12	73	25	16	57	144	25	M6	2.3	10
32	96	⅛	143	22	12	84	25	16	57	154	25	M6	2.9	13
40	120	⅛	173	26	15	99	26	26	69	174	45	M8	3.7	15
50	150	¼	214	32	15	119	36	26	88	194	45	M8	4.6	19
63	150	¼	226	39	15	132	36	26	88	224	45	M8	5.8	23

d (mm)	closest inch (inch)
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2



PROGEF Standard Diaphragm valve DIASTAR Ten
FO (Fail safe to open)
With backing flanges PP-V metric/BS

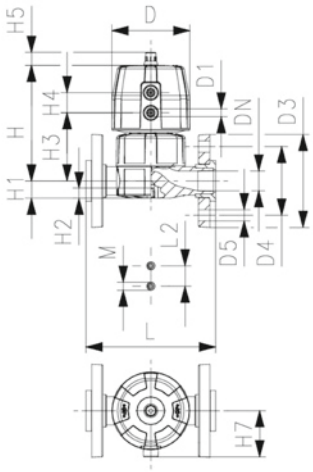
Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM

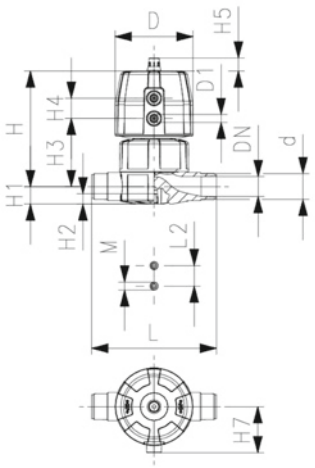


d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**167 647 112**	0.624	**167 647 132**	0.634
25	20	¾	10	10*	271	**167 647 113**	1.049	**167 647 133**	1.060
32	25	1	10	10*	481	**167 647 114**	1.302	**167 647 134**	1.322
40	32	1 ¼	10	10*	759	**167 647 115**	2.069	**167 647 135**	2.089
50	40	1 ½	10	10*	1263	**167 647 116**	3.799	**167 647 136**	3.829
63	50	2	10	10*	1728	**167 647 117**	4.752	**167 647 137**	4.780

d (mm)	D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
20	68	⅛	95	65	14	101	14	12	60	24	16	57	130	25	M6
25	96	⅛	105	75	14	132	18	12	73	25	16	57	150	25	M6
32	96	⅛	115	85	14	143	22	12	84	25	16	69	160	25	M6
40	120	⅛	140	100	18	173	26	15	99	26	26	88	180	45	M8
50	150	¼	150	110	18	214	32	15	119	36	26	103	200	45	M8
63	150	¼	165	125	18	226	39	15	132	36	26	103	230	45	M8

d (mm)	Lift = Hx (mm)	closest inch (inch)
20	7	½
25	10	¾
32	13	1
40	15	1 ¼
50	19	1 ½
63	23	2





PROGEF Standard Diaphragm valve DIASTAR Ten
FC (Fail safe to close)
With socket fusion spigots metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

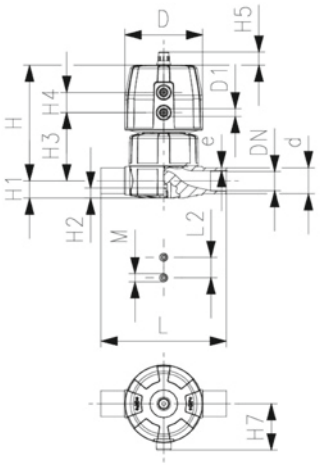
* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**167 625 012**	0.461	**167 625 032**	0.502
25	20	¾	10	10*	271	**167 625 013**	0.968	**167 625 033**	0.990
32	25	1	10	10*	481	**167 625 014**	1.146	**167 625 034**	1.156
40	32	1 ¼	10	10*	759	**167 625 015**	1.897	**167 625 035**	1.917
50	40	1 ½	10	10*	1263	**167 625 016**	3.345	**167 625 036**	3.375
63	50	2	6	6*	1728	**167 625 017**	4.006	**167 625 037**	4.054

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)
20	68	⅛	101	14	12	60	24	16	43	124	25	M6	1.9	7
25	96	⅛	132	18	12	73	25	16	57	144	25	M6	2.3	10
32	96	⅛	143	22	12	84	25	16	57	154	25	M6	2.9	13
40	120	⅛	173	26	15	99	26	26	69	174	45	M8	3.7	15
50	150	¼	214	32	15	119	36	26	88	194	45	M8	4.6	19
63	150	¼	226	39	15	132	36	26	88	224	45	M8	5.8	23

d (mm)	closest inch (inch)
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2





PROGEF Standard Diaphragm valve DIASTAR Ten
FC (Fail safe to close)
With butt fusion spigots SDR11 metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

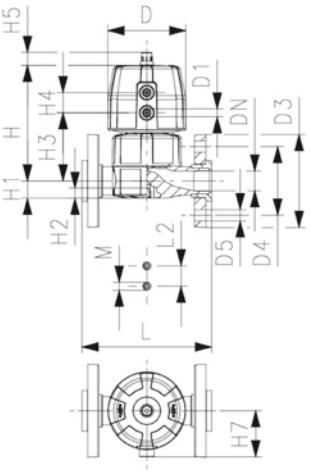
- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**167 625 112**	0.491	**167 625 132**	0.501
25	20	¾	10	10*	271	**167 625 113**	0.975	**167 625 133**	0.986
32	25	1	10	10*	481	**167 625 114**	1.134	**167 625 134**	1.154
40	32	1 ¼	10	10*	759	**167 625 115**	1.893	**167 625 135**	1.913
50	40	1 ½	10	10*	1263	**167 625 116**	3.340	**167 625 136**	3.370
63	50	2	10	6*	1728	**167 625 117**	3.899	**167 625 137**	3.927

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)	closest inch (inch)
20	68	⅛	101	14	12	60	24	16	43	124	25	M6	7	½
25	96	⅛	132	18	12	73	25	16	57	144	25	M6	10	¾
32	96	⅛	143	22	12	84	25	16	57	154	25	M6	13	1
40	120	⅛	173	26	15	99	26	26	69	174	45	M8	15	1 ¼
50	150	¼	214	32	15	119	36	26	88	194	45	M8	19	1 ½
63	150	¼	226	39	15	132	36	26	88	224	45	M8	23	2





PROGEF Standard Diaphragm valve DIASTAR Ten
FC (Fail safe to close)
With backing flanges PP-V metric/BS

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	10*	125	**167 627 112**	0.674	**167 627 162**	0.674
25	20	¾	10	10*	271	**167 627 113**	1.223	**167 627 163**	1.223
32	25	1	10	10*	481	**167 627 114**	1.482	**167 627 164**	1.482
40	32	1 ¼	10	10*	759	**167 627 115**	2.554	**167 627 165**	2.429
50	40	1 ½	10	10*	1263	**167 627 116**	3.889	**167 627 166**	3.889
63	50	2	6	6*	1728	**167 627 117**	4.918	**167 627 167**	4.842

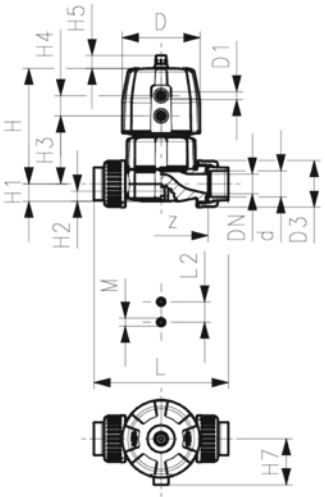
d (mm)	DN (mm)	PTFE/ EPDM* Code	Weight (kg)
20	15	**167 627 132**	0.684
25	20	**167 627 133**	1.234
32	25	**167 627 134**	1.526
40	32	**167 627 135**	2.562
50	40	**167 627 136**	3.919
63	50	**167 627 137**	4.952

d (mm)	DN (mm)	D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)
20	15	68	⅛	95	65	14	101	14	12	60	24	16	43	130	25
25	20	96	⅛	105	75	14	132	18	12	73	25	16	57	150	25
32	25	96	⅛	115	85	14	143	22	12	84	25	16	69	160	25
40	32	120	⅛	140	100	18	173	26	15	99	26	26	69	180	45
50	40	150	¼	150	110	18	193	32	15	119	36	26	88	200	45
63	50	150	¼	165	125	18	205	39	15	132	36	26	88	230	45

d (mm)	DN (mm)	M	Lift = Hx (mm)	closest inch (inch)
20	15	M6	7	½
25	20	M6	10	¾
32	25	M6	13	1
40	32	M8	15	1 ¼
50	40	M8	19	1 ½
63	50	M8	23	2

Diaphragm valves pneumatic DIASTAR TenPlus





PROGEF Standard Diaphragm valve DIASTAR TenPlus
FC (Fail safe to close)
Unions with fusion sockets metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **both sides**
* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	10*	125	**167 684 012**	0.958	**167 684 062**	0.958
25	20	¾	10	10*	271	**167 684 013**	1.082	**167 684 063**	1.082
32	25	1	10	10*	481	**167 684 014**	1.970	**167 684 064**	1.970
40	32	1 ¼	10	10*	759	**167 684 015**	3.136	**167 684 065**	3.136
50	40	1 ½	10	10*	1263	**167 684 016**	4.784	**167 684 066**	4.784
63	50	2	10	10*	1728	**167 684 017**	6.076	**167 684 067**	6.076

d (mm)	PTFE/ EPDM* Code	Weight (kg)
20	**167 684 032**	0.958
25	**167 684 033**	1.094
32	**167 684 034**	1.881
40	**167 684 035**	3.156
50	**167 684 036**	4.827
63	**167 684 037**	5.763

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
20	96	⅛	127	14	12	68	25	16	57	128	25	M6	96	7
25	96	⅛	132	18	12	73	25	16	57	150	25	M6	114	10
32	120	⅛	167	22	12	93	26	26	69	162	25	M6	122	13
40	150	¼	196	26	15	101	36	26	88	184	45	M8	140	15
50	180	¼	239	32	15	124	37	26	103	210	45	M8	160	19
63	180	¼	251	39	15	137	37	26	103	248	45	M8	190	23

d (mm)	closest inch (inch)
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2



PROGEF Standard Diaphragm valve DIASTAR TenPlus
FC (Fail safe to close)
Unions with butt fusion spigots SDR11 metric

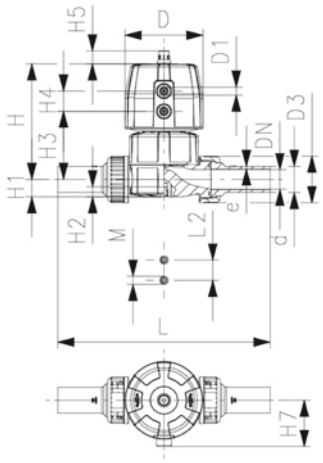
Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **both sides**
* O-Ring material: FKM

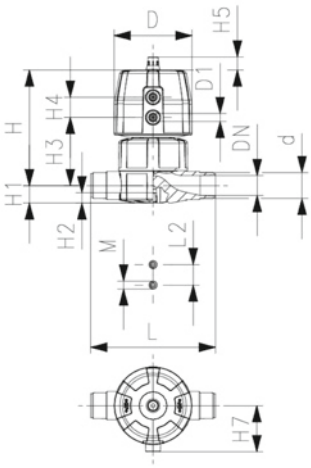


d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**167 684 112**	0.966	**167 684 132**	0.969
25	20	¾	10	10*	271	**167 684 113**	1.094	**167 684 133**	1.106
32	25	1	10	10*	481	**167 684 114**	1.859	**167 684 134**	1.870
40	32	1 ¼	10	10*	759	**167 684 115**	3.168	**167 684 135**	3.188
50	40	1 ½	10	10*	1263	**167 684 116**	5.009	**167 684 136**	5.039
63	50	2	10	10*	1728	**167 684 117**	5.964	**167 684 137**	5.777

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)
20	96	⅛	127	14	12	68	25	16	57	196	25	M6	1.9	7
25	96	⅛	132	18	12	73	25	16	57	221	25	M6	2.3	10
32	120	⅛	167	22	12	93	26	26	69	234	25	M6	2.9	13
40	150	¼	196	26	15	101	36	26	88	260	45	M8	3.7	15
50	180	¼	239	32	15	124	37	26	103	284	45	M8	4.6	19
63	180	¼	251	39	15	137	37	26	103	321	45	M8	5.8	23

d (mm)	closest inch (inch)
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2





PROGEF Standard Diaphragm valve DIASTAR TenPlus FC (Fail safe to close) With socket fusion spigots metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Overall length EN 558
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

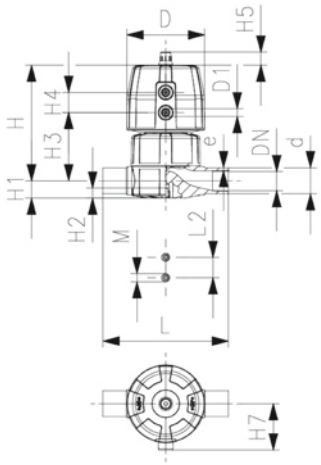
* PN: PTFE
Working Pressure: **both sides**
* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**167 685 012**	0.892	**167 685 032**	0.902
25	20	¾	10	10*	271	**167 685 013**	0.979	**167 685 033**	0.990
32	25	1	10	10*	481	**167 685 014**	1.730	**167 685 034**	1.750
40	32	1 ¼	10	10*	759	**167 685 015**	3.044	**167 685 035**	2.987
50	40	1 ½	10	10*	1263	**167 685 016**	4.615	**167 685 036**	4.650
63	50	2	10	10*	1728	**167 685 017**	5.309	**167 685 037**	5.337

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)
20	96	⅛	127	14	12	68	25	16	57	124	25	M6	1.9	7
25	96	⅛	132	18	12	73	25	16	57	144	25	M6	2.3	10
32	120	⅛	167	22	12	93	26	26	69	154	25	M6	2.9	13
40	150	¼	196	26	15	101	36	26	88	174	45	M8	3.7	15
50	180	¼	239	32	15	124	37	26	103	194	45	M8	4.6	19
63	180	¼	251	39	15	137	37	26	103	224	45	M8	5.8	23

d (mm)	closest inch (inch)
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2





PROGEF Standard Diaphragm valve DIASTAR TenPlus
FC (Fail safe to close)
With butt fusion spigots SDR11 metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **both sides**
* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**167 685 112**	0.891	**167 685 132**	0.901
25	20	¾	10	10*	271	**167 685 113**	0.975	**167 685 133**	0.986
32	25	1	10	10*	481	**167 685 114**	1.728	**167 685 134**	1.748
40	32	1 ¼	10	10*	759	**167 685 115**	2.963	**167 685 135**	2.983
50	40	1 ½	10	10*	1263	**167 685 116**	4.748	**167 685 136**	4.778
63	50	2	10	10*	1728	**167 685 117**	5.306	**167 685 137**	5.334

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)
20	96	⅛	127	14	12	68	25	16	57	124	25	M6	1.9	7
25	96	⅛	132	18	12	73	25	16	57	144	25	M6	2.3	10
32	120	⅛	167	22	12	93	26	26	69	154	25	M6	2.9	13
40	150	¼	196	26	15	101	36	26	88	174	45	M8	3.7	15
50	180	¼	239	32	15	124	37	26	103	194	45	M8	4.6	19
63	180	¼	251	39	15	137	37	26	103	224	45	M8	5.8	23

d (mm)	closest inch (inch)
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2



PROGEF Standard Diaphragm valve DIASTAR TenPlus
FC (Fail safe to close)
With backing flanges PP-V metric/BS

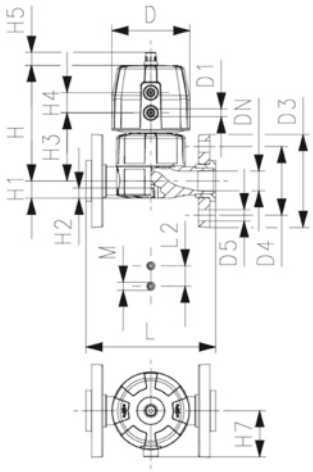
Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- For easy installation and removal
- Overall length EN 558
- Short overall length
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **both sides**
* O-Ring material: FKM



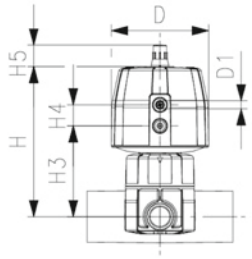
d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	10*	125	**167 687 112**	1.074	**167 687 162**	1.074
25	20	¾	10	10*	271	**167 687 113**	1.223	**167 687 163**	1.223
32	25	1	10	10*	481	**167 687 114**	2.076	**167 687 164**	2.076
40	32	1 ¼	10	10*	759	**167 687 115**	3.499	**167 687 165**	3.499
50	40	1 ½	10	10*	1263	**167 687 116**	5.297	**167 687 166**	5.297
63	50	2	10	10*	1728	**167 687 117**	6.643	**167 687 167**	6.643

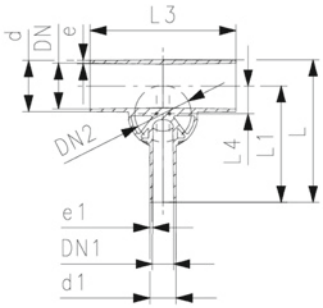
d (mm)	PTFE/ EPDM* Code	Weight (kg)
20	**167 687 132**	1.103
25	**167 687 133**	1.276
32	**167 687 134**	2.096
40	**167 687 135**	3.350
50	**167 687 136**	5.327
63	**167 687 137**	6.678

d (mm)	D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
20	96	⅛	95	65	14	127	14	12	68	25	16	57	130	25	M6
25	96	⅛	105	75	14	132	18	12	73	25	16	57	150	25	M6
32	120	⅛	115	85	14	167	22	12	93	26	26	69	160	25	M6
40	150	¼	140	100	18	196	26	15	101	36	26	88	180	45	M8
50	180	¼	150	110	18	239	32	15	124	37	26	103	200	45	M8
63	180	¼	165	125	18	251	39	15	137	37	26	103	230	45	M8

d (mm)	Lift = Hx (mm)	closest inch (inch)
20	7	½
25	10	¾
32	13	1
40	15	1 ¼
50	19	1 ½
63	23	2







PROGEF Standard Diaphragm valve DIASTAR TenPlus
FC (Fail safe to close)
With butt fusion spigots SDR11 metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Smallest possible dead space
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

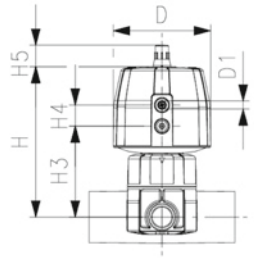
* PN: PTFE
Working Pressure: **both sides**
* O-Ring material: FKM

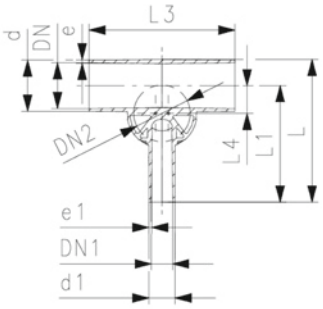
d (mm)	d1 (mm)	DN (mm)	DN1 (mm)	Size (inch)	Valve Size d (mm)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
20	20	15	15	½	20	10	10*	57	**167 689 101**	0.906
25	20	20	15	¾	25	10	10*	89	**167 689 103**	0.981
25	25	20	20	¾	25	10	10*	118	**167 689 104**	0.982
32	20	25	15	1	25	10	10*	80	**167 689 107**	1.008
32	25	25	20	1	25	10	10*	105	**167 689 108**	1.010
32	32	25	25	1	32	10	10*	231	**167 689 109**	1.741
40	20	32	15	1 ¼	32	10	10*	85	**167 689 112**	1.768
50	20	40	15	1 ½	25	10	10*	86	**167 689 118**	1.068
50	25	40	20	1 ½	32	10	10*	160	**167 689 119**	1.814
50	32	40	25	1 ½	32	10	10*	206	**167 689 120**	1.816
63	20	50	15	2	25	10	10*	84	**167 689 125**	1.107
63	25	50	20	2	32	10	10*	150	**167 689 126**	1.857
63	32	50	25	2	32	10	10*	184	**167 689 127**	1.860

d (mm)	PTFE/ EPDM* Code	Weight (kg)
20	**167 689 301**	0.916
25	**167 689 303**	0.992
25	**167 689 304**	0.993
32	**167 689 307**	1.019
32	**167 689 308**	1.021
32	**167 689 309**	1.761
40	**167 689 312**	1.788
50	**167 689 318**	1.079
50	**167 689 319**	1.834
50	**167 689 320**	1.836
63	**167 689 325**	1.119
63	**167 689 326**	1.877
63	**167 689 327**	1.880

d (mm)	D (mm)	D1 (inch)	H (mm)	H3 (mm)	H4 (mm)	H5 (mm)	L (mm)	L1 (mm)	L3 (mm)	L4 (mm)	e (mm)	Lift = Hx (mm)	DN2 (mm)	e1 (mm)
20	96	⅛	130	71	25	16	117	96	162	12	1.9	7	15	1.9
25	96	⅛	131	72	25	16	133	108	162	16	2.3	10	20	1.9
25	96	⅛	131	72	25	16	133	108	162	16	2.3	10	20	2.3
32	96	⅛	135	76	25	16	142	120	162	19	2.9	10	20	1.9
32	96	⅛	135	76	25	16	142	120	162	19	2.9	10	20	2.3
32	120	⅛	167	93	26	26	145	120	160	19	2.9	13	25	2.9
40	120	⅛	175	101	26	26	149	128	180	23	3.7	13	25	1.9
50	96	⅛	148	90	25	16	160	134	180	27	4.6	10	20	1.9
50	120	⅛	180	106	26	26	160	134	180	28	4.6	13	25	2.3

table continued on the next page





d (mm)	D (mm)	D1 (inch)	H (mm)	H3 (mm)	H4 (mm)	H5 (mm)	L (mm)	L1 (mm)	L3 (mm)	L4 (mm)	e (mm)	Lift = Hx (mm)	DN2 (mm)	e1 (mm)
50	120	⅛	180	106	26	26	160	134	180	28	4.6	13	25	2.9
63	96	⅛	155	96	25	26	177	144	180	33	5.8	10	20	1.9
63	120	⅛	187	113	26	16	177	144	180	35	5.8	13	25	2.3
63	120	⅛	187	113	26	26	177	144	180	35	5.8	13	25	2.9

Diaphragm valves DIASTAR big dimensions



PROGEF Standard Diaphragm valve type DIASTAR
Series 025 FC (Fail safe to close)
With fixed flanges PP metric

Model:

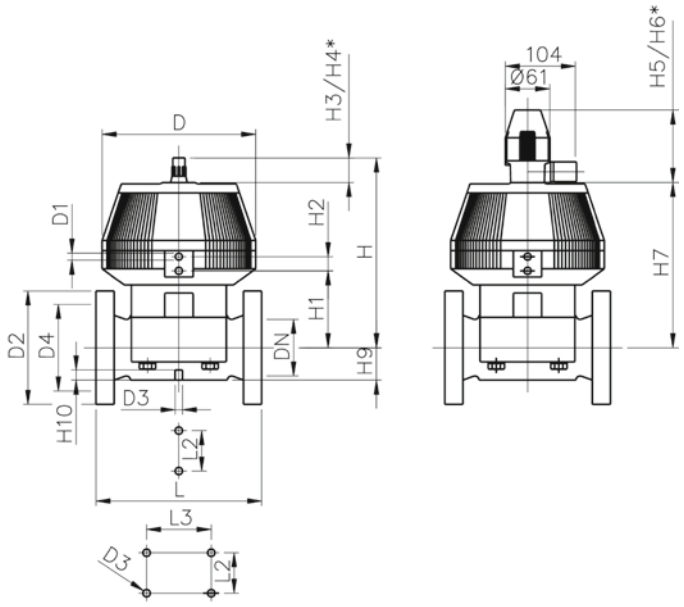
- Material: PP-H
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504
- With position indicator / Working pressure: **one side**

* With backing flanges PP-V
** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

	d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
*	75	2 ½	65	10	992	**199 025 267**	14.810	**199 025 297**	14.715
**	90	3	80	10	1700	**199 025 268**	17.400	**199 025 298**	16.162
	110	4	100	8	2700	**199 025 269**	25.523	**199 025 299**	24.700
**	160	6	150	6	6033	**199 025 270**	35.000		

	d (mm)	D (mm)	D1_G (inch)	D2 (mm)	D3[M] (mm)	D4 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	H7 (mm)	H9 (mm)
*	75	280	¼	185	8	145	344	148	24	46	100	129	195	298	46
**	90	280	¼	200	12	160	348	150	24	46	100	129	195	302	57
	110	335	¼	225	12	180	395	176	24	46	100	129	195	349	69
**	160	335	¼	285	12	240	455	237	24	46	100	129	195	409	108

	d (mm)	H10 (mm)	L (mm)	L2 (mm)	L3 (mm)
*	75	15	290	70	
**	90	15	310	120	
	110	20	350	120	
**	160	20	480	100	200



+GF+



PROGEF Standard Diaphragm valve type DIASTAR
Series 025 FO (Fail safe to open)
With fixed flanges PP metric

Model:

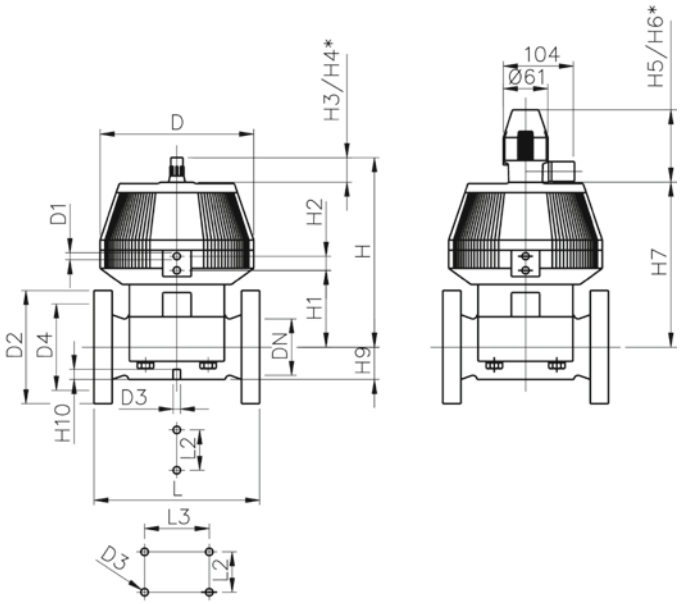
- Material: PP-H
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504
- With position indicator / Working pressure: **one side**

* With backing flanges PP-V
** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

	d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
*	75	2 ½	65	10	992	**199 025 277**	13.110	**199 025 307**	13.600
**	90	3	80	10	1700	**199 025 278**	17.400	**199 025 308**	17.400
	110	4	100	8	2700	**199 025 279**	19.700	**199 025 309**	24.700
**	160	6	150	6	6033	**199 025 280**	35.000	**199 025 310**	35.000

	d (mm)	D (mm)	D1_G (inch)	D2 (mm)	D3[M] (mm)	D4 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	H7 (mm)	H9 (mm)
*	75	280	¼	185	8	145	344	148	24	46	100	129	195	298	46
**	90	280	¼	200	12	160	348	150	24	46	100	129	195	302	57
	110	335	¼	225	12	180	395	176	24	46	100	129	195	349	69
**	160	335	¼	285	12	240	455	237	24	46	100	129	195	409	108

	d (mm)	H10 (mm)	L (mm)	L2 (mm)	L3 (mm)
*	75	15	290	70	
**	90	15	310	120	
	110	20	350	120	
**	160	20	480	100	200



+GF+



PROGEF Standard Diaphragm valve type DIASTAR
Series 025 DA (Double acting)
With fixed flanges PP metric

Model:

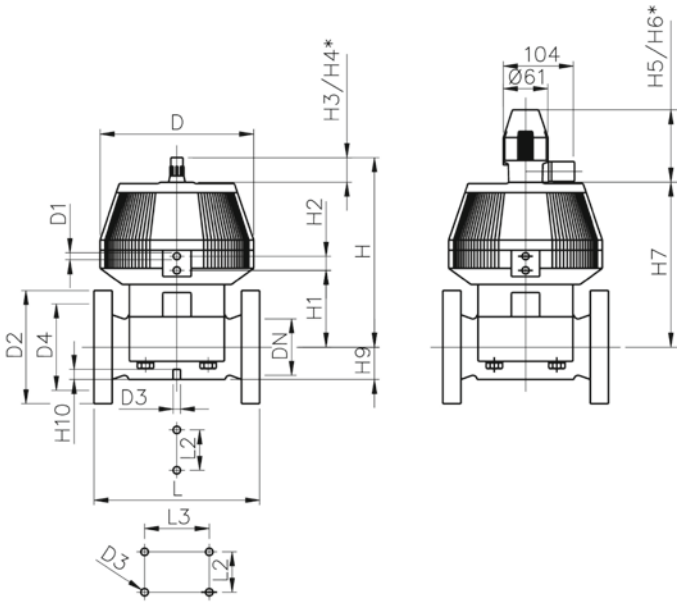
- Material: PP-H
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504
- With position indicator / Working pressure: **one side**

* With backing flanges PP-V
** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

	d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
*	75	2 ½	65	10	992	**199 025 287**	12.096	**199 025 317**	13.600
**	90	3	80	10	1700	**199 025 288**	13.145	**199 025 318**	17.400
	110	4	100	8	2700	**199 025 289**	23.941	**199 025 319**	24.700
**	160	6	150	6	6033	**199 025 290**	35.000	**199 025 320**	35.000

	d (mm)	D (mm)	D1_G (inch)	D2 (mm)	D3[M] (mm)	D4 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	H7 (mm)	H9 (mm)
*	75	280	¼	185	8	145	344	148	24	46	100	129	195	298	46
**	90	280	¼	200	12	160	348	150	24	46	100	129	195	302	57
	110	335	¼	225	12	180	395	176	24	46	100	129	195	349	69
**	160	335	¼	285	12	240	455	237	24	46	100	129	195	409	108

	d (mm)	H10 (mm)	L (mm)	L2 (mm)	L3 (mm)
*	75	15	290	70	
**	90	15	310	120	
	110	20	350	120	
**	160	20	480	100	200



Pressure regulating valves type 586

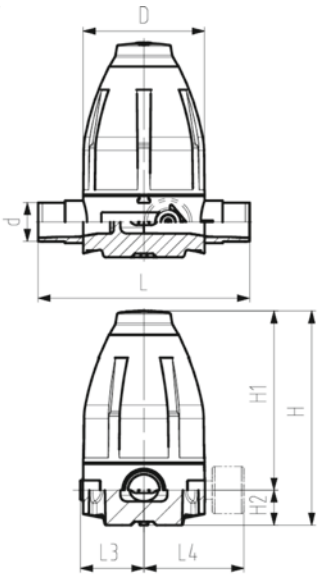


PROGEF Standard Pressure retaining valve type 586
With butt fusion spigots SDR11 metric
Without manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

0.3-3.0 bar (4-44 psi) on request
Manometer on request



d (mm)	DN (mm)	Size (inch)	SDR	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FKM Code
20	15	½	11	10	**167 586 002**	0.550	**167 586 012**
25	20	¾	11	10	**167 586 003**	1.260	**167 586 013**
32	25	1	11	10	**167 586 004**	1.260	**167 586 014**
40	32	1 ¼	11	10	**167 586 005**	3.460	**167 586 015**
50	40	1 ½	11	10	**167 586 006**	3.470	**167 586 016**
63	50	2	11	10	**167 586 007**	3.540	**167 586 017**

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L3 (mm)	M	closest inch (inch)
20	79	132	111	21	14	150	42	M6	½
25	100	177	148	29	14	190	53	M6	¾
32	100	177	148	29	14	190	53	M6	1
40	147	251	207	44	21	240	76	M8	1 ¼
50	147	251	207	44	21	240	76	M8	1 ½
63	147	251	207	44	21	260	76	M8	2

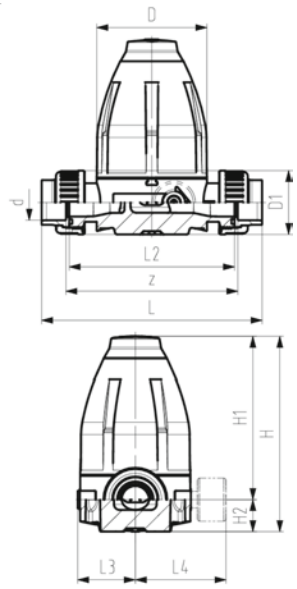


PROGEF Standard Pressure retaining valve type 586
Unions with fusion sockets metric
Without manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

0.3-3.0 bar (4-44 psi) on request
Manometer on request



d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FKM Code
20	15	½	10	**167 586 102**	0.635	**167 586 112**
25	20	¾	10	**167 586 103**	1.310	**167 586 113**
32	25	1	10	**167 586 104**	1.330	**167 586 114**
40	32	1 ¼	10	**167 586 105**	3.610	**167 586 115**
50	40	1 ½	10	**167 586 106**	3.660	**167 586 116**
63	50	2	10	**167 586 107**	3.810	**167 586 117**

d (mm)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	M	z (mm)	closest inch (inch)
20	79	48	132	111	21	12	158	120	42	M6	126	½
25	100	58	177	148	29	14	192	150	53	M6	156	¾
32	100	65	177	148	29	14	196	150	53	M6	156	1
40	147	77	251	207	44	21	255	205	76	M8	211	1 ¼
50	147	84	251	207	44	21	261	205	76	M8	211	1 ½
63	147	111	251	207	44	21	269	205	76	M8	211	2

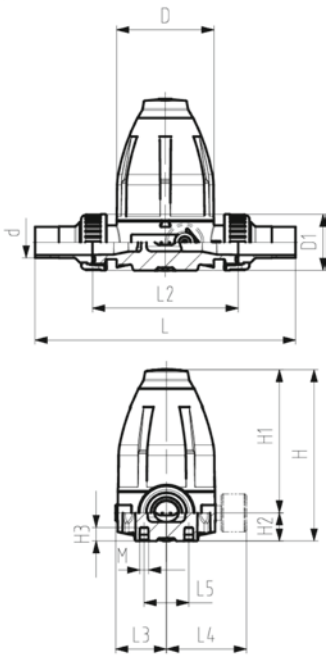


PROGEF Standard Pressure retaining valve type 586
Unions with butt fusion spigots SDR11 metric
Without manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

0.3-3.0 bar (4-44 psi) on request
Manometer on request



d (mm)	DN (mm)	Size (inch)	SDR	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FKM Code
20	15	½	11	10	**167 586 502**	0.630	**167 586 512**
25	20	¾	11	10	**167 586 503**	1.350	**167 586 513**
32	25	1	11	10	**167 586 504**	1.370	**167 586 514**
40	32	1 ¼	11	10	**167 586 505**	3.650	**167 586 515**
50	40	1 ½	11	10	**167 586 506**	3.700	**167 586 516**
63	50	2	11	10	**167 586 507**	3.850	**167 586 517**

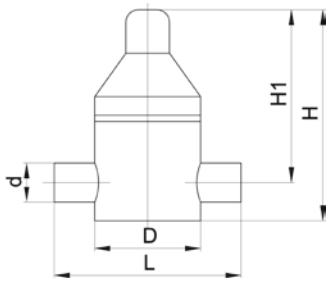
d (mm)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	M	closest inch (inch)
20	79	48	132	111	21	12	228	120	42	M6	½
25	100	58	177	148	29	14	264	150	53	M6	¾
32	100	65	177	148	29	14	270	150	53	M6	1
40	147	77	251	207	44	21	331	205	76	M8	1 ¼
50	147	84	251	207	44	21	337	205	76	M8	1 ½
63	147	111	251	207	44	21	343	205	76	M8	2



PROGEF Standard Pressure retaining valve type V86
With butt fusion spigots IR metric

Model:

- Material: PP-H



d (mm)	DN (mm)	Size (inch)	PN (bar)	Type	EPDM Code	Weight (kg)	PTFE Code	Weight (kg)
75	65	2 ½	6	V86	**199 041 471**	5.900	**199 041 476**	5.900
90	80	3	6	V86	**199 041 473**	12.900	**199 041 478**	12.900
110	100	4	4	V86	**199 041 474**	14.500	**199 041 479**	14.500

d (mm)	D (mm)	H (mm)	H1 (mm)	L (mm)	Pressure setting range (bar)	closest inch (inch)
75	180	275	230	284	1.0 - 6.0	2 ½
90	250	410	320	360	1.0 - 6.0	3
110	250	485	415	380	1.0 - 4.0	4

Diaphragm Valve Type 604 / 605

Packs a punch



The full-plastic diaphragm valve 604 / 605 with integrated pneumatic actuator from GF Piping Systems ensures best flow performance in compact design. With this corrosion free valve we offer an additional product with the most economic price-performance ratio which is suitable for many applications.

Easy installation and operation

- The compact design enables installation in limited spaces
- No re-torqueing needed due to full plastic design without metal parts and screws
- Radially dismountable due to true unions
- Maintenance free
- Same installation length as all GF diaphragm valves and market standard valves
- Integrated optical position feedback
- QR-Code on valve leads to online available product documents

High safety

- Uniform temperature expansion of plastic/plastic connection prevents leakages
- High chemical resistance due to large material range

High Flexibility

- Operation options: FC, FO, DA
- Diaphragms available in PTFE, FPM, EPDM for neutral and aggressive media
- Various connection options with true union or spigot version
- Available Standards: Metric, ASTM, BS, JIS
- Best quality and reliability for high number of cycles
- Long lifetime

Best flow performance

- Linear flow characteristic for simple valve control
- Optimized flow geometry with soft transitions and radii doubles the flow rate
- Suitable for media with low number of particles/solids

Applications

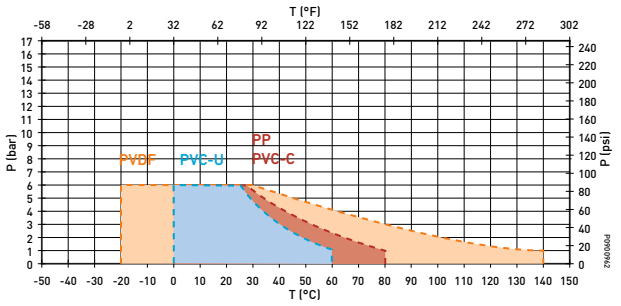
- Chemical Process Industry
- Dosing
- Water Treatment

Technical Data

Dimension	DN 15 (1/2“)
Pressure Rating	PN 6
Body	PVC-U / CPVC (Polyvinylchlorid) PP-H (Polypropylen) PVDF (Polyvinylidenfluorid) Other materials on request
Diaphragms	PTFE with EPDM Backing Diaphragm PTFE with FPM Backing Diaphragm EPDM FPM
Valve Housing	PP-GF (orange)
Connections	**Type 604:** Body with true union connection to match all standard GF unions and end-connections **Type 605:** Body with cementing resp. welding spigots Available on request: Various inserts from the GF range
Mounting	Threaded inserts for safe mounting on valve body
Flow	Double flow rate compared to a typical diaphragm valve
Standards	ISO 9393 EN 12266

Pressure-Temperature Diagram

The following Pressure-Temperature Diagram is based on a lifetime of 25 years with water or similar media.



Diaphragm Valve Type 604 / 605

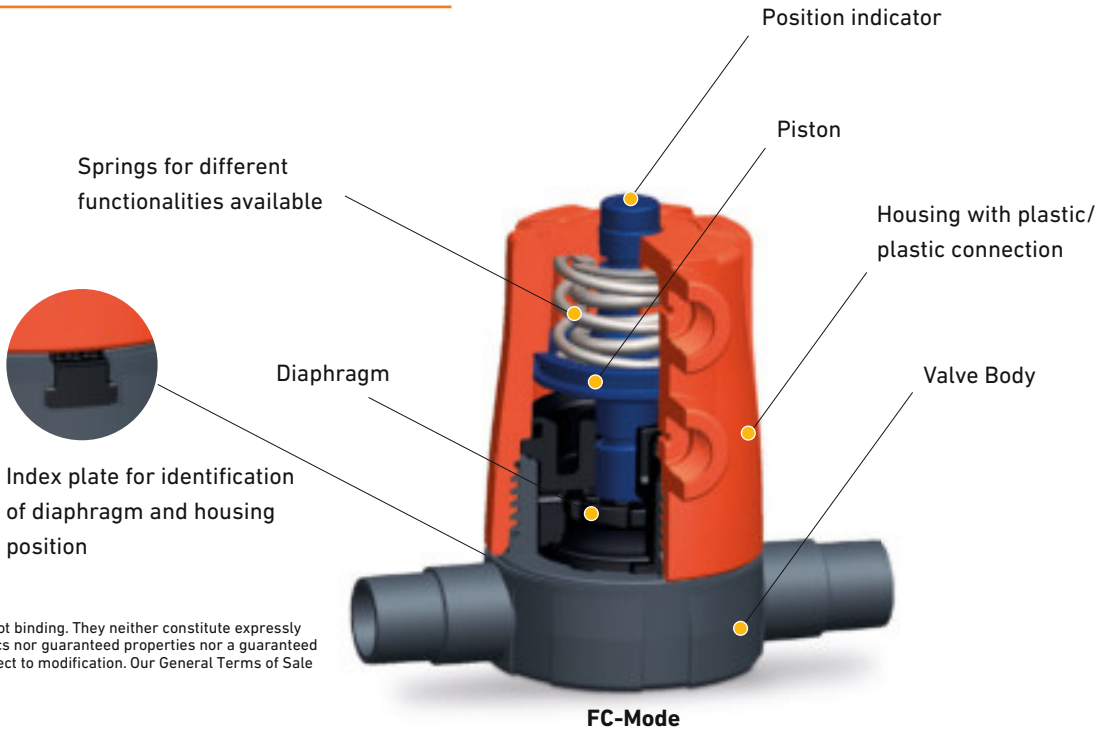
DN	d	inch	Kv 100 l/min	m^3/h	Cv100 gpm
15	20	1/2“	125	7,5	0,55

Kv Values

KV 100 at pressure differnential p = 1 bar

CV100 at pressure differnential p = 1 psi

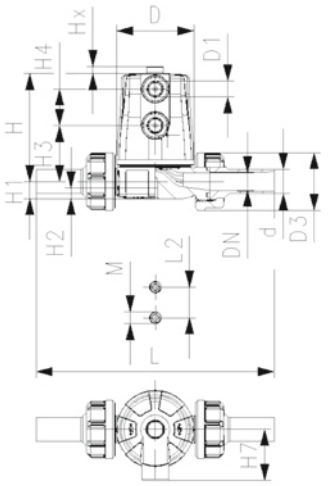
Features



FC-Mode

The technical data are not binding. They neither constitute expressly warranted characteristics nor guaranteed properties nor a guaranteed durability. They are subject to modification. Our General Terms of Sale apply.





PROGEF Standard Diaphragm valve type 604
Unions with butt fusion spigot metric

Model:

- Material: PP-H
- Compact full plastic design without screws
- High flow rate
- Actuator housing with thread for easy maintenance
- Quick opening & closing times
- For easy installation and removal
- Market standard installation length

Option:

- Individual configuration of the valve

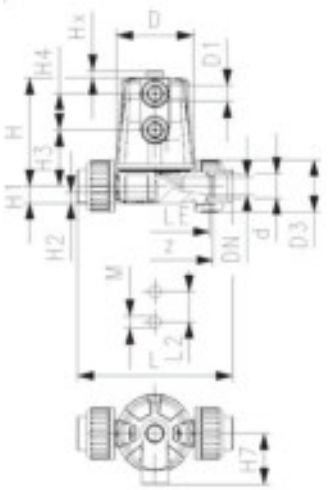
* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	FKM Code	Weight (kg)
20	15	½	6	125	FC	**167 604 112**	**167 604 162**	0.35
20	15	½	6	125	FO	**167 604 114**	**167 604 164**	0.32
20	15	½	6	125	DA	**167 604 115**	**167 604 165**	0.30

d (mm)	PTFE/ EPDM* Code
20	**167 604 132**
20	**167 604 134**
20	**167 604 135**

d (mm)	D (mm)	D1_G (inch)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
20	65	¼	48	89	14	12	46	30	42	196	25	M6	100	6
20	65	¼	48	89	14	12	46	30	42	196	25	M6	100	6
20	65	¼	48	89	14	12	46	30	42	196	25	M6	100	6





PROGEF Standard Diaphragm valve type 604
Unions with fusion socket metric

Model:

- Material: PP-H
- Compact full plastic design without screws
- High flow rate
- Actuator housing with thread for easy maintenance
- Quick opening & closing times
- For easy installation and removal
- Market standard installation length

Option:

- Individual configuration of the valve

* O-Ring material: FKM

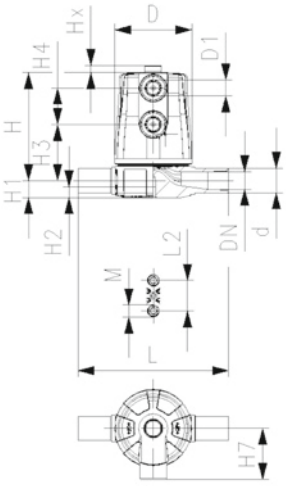
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	FKM Code	Weight (kg)
20	15	½	6	125	FC	**167 604 012**	**167 604 062**	0.35
20	15	½	6	125	FO	**167 604 014**	**167 604 064**	0.32
20	15	½	6	125	DA	**167 604 015**	**167 604 065**	0.30

table continued on the next page

d (mm)	PTFE/ EPDM* Code
20	**167 604 032**
20	**167 604 034**
20	**167 604 035**

d (mm)	D (mm)	D1_G (inch)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)	LE (mm)
20	65	¼	48	89	14	12	46	30	42	128	25	M6	96	6	90
20	65	¼	48	89	14	12	46	30	42	128	25	M6	96	6	90
20	65	¼	48	89	14	12	46	30	42	128	25	M6	96	6	90





PROGEF Standard Diaphragm valve type 605
With butt fusion spigot metric

Model:

- Material: PP-H
- Compact full plastic design without screws
- High flow rate
- Actuator housing with thread for easy maintenance
- Quick opening & closing times
- For easy installation and removal
- Market standard installation length

Option:

- Individual configuration of the valve

* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	FKM Code	Weight (kg)
20	15	½	6	125	FC	**167 605 112**	**167 605 162**	0.31
20	15	½	6	125	FO	**167 605 114**	**167 605 164**	0.28
20	15	½	6	125	DA	**167 605 115**	**167 605 165**	0.26

d (mm)	PTFE/ EPDM* Code
20	**167 605 132**
20	**167 605 134**
20	**167 605 135**

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H7 (mm)	L (mm)	L2 (mm)	e (mm)	M	z (mm)	Lift = Hx (mm)
20	65	¼	89	14	12	46	30	42	124	25	1.9	M6	100	6
20	65	¼	89	14	12	46	30	42	124	25	1.9	M6	100	6
20	65	¼	89	14	12	46	30	42	124	25	1.9	M6	100	6

Pressure regulating valves type 582

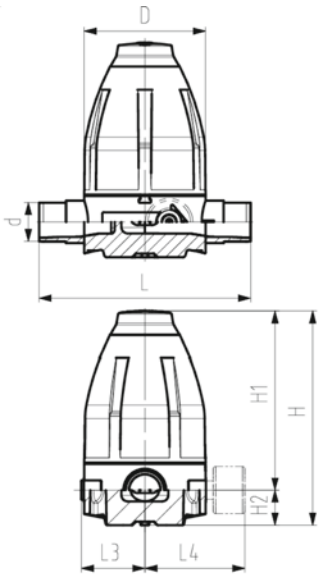


PROGEF Standard Pressure reducing valve type 582
With butt fusion spigots SDR11 metric
Without manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

0.3-3.0 bar (4-44 psi) on request
Manometer on request



d (mm)	DN (mm)	Size (inch)	SDR	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FKM Code
20	15	½	11	10	**167 582 002**	0.560	**167 582 012**
25	20	¾	11	10	**167 582 003**	1.250	**167 582 013**
32	25	1	11	10	**167 582 004**	1.250	**167 582 014**
40	32	1 ¼	11	10	**167 582 005**	3.450	**167 582 015**
50	40	1 ½	11	10	**167 582 006**	3.460	**167 582 016**
63	50	2	11	10	**167 582 007**	3.520	**167 582 017**

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L3 (mm)	M	closest inch (inch)
20	79	132	111	21	14	150	42	M6	½
25	100	177	148	29	14	190	53	M6	¾
32	100	177	148	29	14	190	53	M6	1
40	147	251	207	44	21	240	76	M8	1 ¼
50	147	251	207	44	21	240	76	M8	1 ½
63	147	251	207	44	21	260	76	M8	2

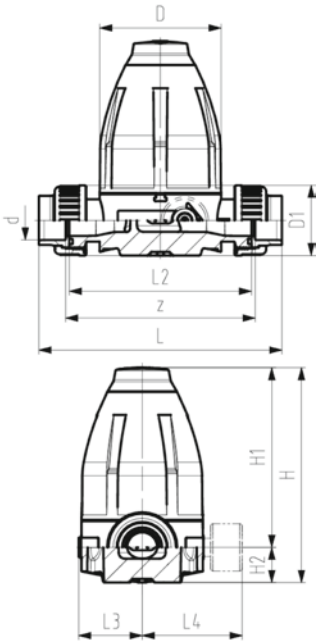


PROGEF Standard Pressure reducing valve type 582
Unions with fusion sockets metric
Without manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

0.3-3.0 bar (4-44 psi) on request
Manometer on request



d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FKM Code
20	15	½	10	**167 582 102**	0.600	**167 582 112**
25	20	¾	10	**167 582 103**	1.300	**167 582 113**
32	25	1	10	**167 582 104**	1.320	**167 582 114**
40	32	1 ¼	10	**167 582 105**	3.530	**167 582 115**
50	40	1 ½	10	**167 582 106**	3.650	**167 582 116**
63	50	2	10	**167 582 107**	3.800	**167 582 117**

d (mm)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	M	z (mm)	closest inch (inch)
20	79	48	132	111	21	12	158	120	42	M6	126	½
25	100	58	177	148	29	14	192	150	53	M6	156	¾
32	100	65	177	148	29	14	196	150	53	M6	156	1
40	147	77	251	207	44	21	255	205	76	M8	211	1 ¼
50	147	84	251	207	44	21	261	205	76	M8	211	1 ½
63	147	111	251	207	44	21	269	205	76	M8	211	2

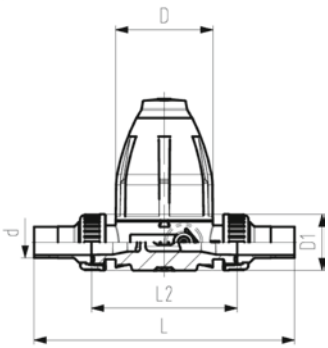


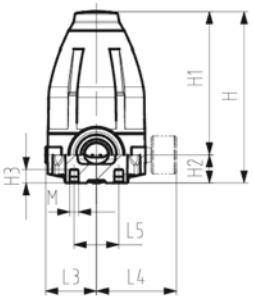
PROGEF Standard Pressure reducing valve type 582
Unions with butt fusion spigots SDR11 metric
Without manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

0.3-3.0 bar (4-44 psi) on request
Manometer on request





d (mm)	DN (mm)	Size (inch)	SDR	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FKM Code
20	15	½	11	10	**167 582 502**	0.640	**167 582 512**
25	20	¾	11	10	**167 582 503**	1.350	**167 582 513**
32	25	1	11	10	**167 582 504**	1.370	**167 582 514**
40	32	1 ¼	11	10	**167 582 505**	3.660	**167 582 515**
50	40	1 ½	11	10	**167 582 506**	3.710	**167 582 516**
63	50	2	11	10	**167 582 507**	3.860	**167 582 517**

d (mm)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	M	closest inch (inch)
20	79	48	132	111	21	12	228	120	42	M6	½
25	100	58	177	148	29	14	264	150	53	M6	¾
32	100	65	177	148	29	14	270	150	53	M6	1
40	147	77	251	207	44	21	331	205	76	M8	1 ¼
50	147	84	251	207	44	21	337	205	76	M8	1 ½
63	147	111	251	207	44	21	343	205	76	M8	2

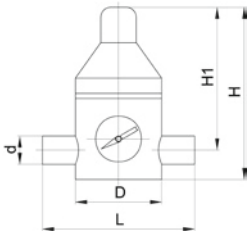


PROGEF Standard Pressure reducing valve type V82
With fusion spigots metric

Model:

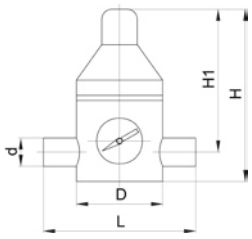
- Material: PP-H

d (mm)	DN (mm)	Size (inch)	PN (bar)	Type	EPDM Code	Weight (kg)
75	65	2 ½	6	V82	**199 041 039**	7.900
90	80	3	6	V82	**199 041 040**	12.900
110	100	4	4	V82	**199 041 041**	23.300



d (mm)	D (mm)	H (mm)	H1 (mm)	L (mm)	Pressure set-ting range (bar)	closest inch (inch)
75	200	350	250	300	0.5 - 5.0	2 ½
90	250	425	305	360	0.5 - 5.0	3
110	300	495	345	420	1.0 - 3.0	4





PROGEF Standard Pressure reducing valve type V82
With butt fusion spigots IR metric

Model:

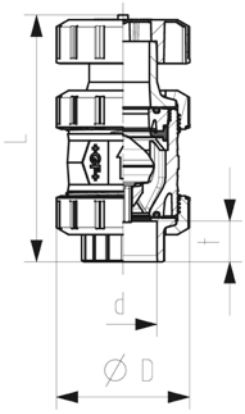
- Material: PP-H

d (mm)	DN (mm)	Size (inch)	PN (bar)	Type	EPDM Code	Weight (kg)
75	65	2 ½	6	V82	**199 041 417**	7.910
90	80	3	6	V82	**199 041 418**	12.910
110	100	4	4	V82	**199 041 419**	23.300

d (mm)	D (mm)	H (mm)	H1 (mm)	L (mm)	Pressure setting range (bar)	closest inch (inch)
75	200	350	250	300	0.5 - 5.0	2 ½
90	250	425	305	360	0.5 - 5.0	3
110	300	495	345	420	1.0 - 3.0	4

Ventilating valves





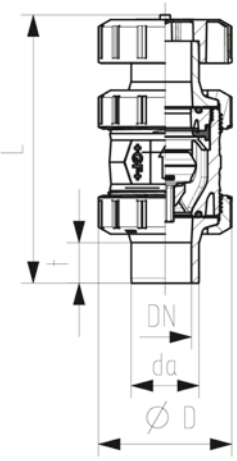
PROGEF Standard Ventilating and bleed valve type 591
With fusion sockets metric

Model:

- Material: PP-H
- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length

d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	10	10	**167 591 001**	**167 591 011**	50	126	14	⅜
20	15	10	**167 591 002**	**167 591 012**	50	127	15	½
25	20	10	**167 591 003**	**167 591 013**	58	142	16	¾
32	25	10	**167 591 004**	**167 591 014**	68	153	18	1
40	32	10	**167 591 005**	**167 591 015**	84	171	19	1 ¼
50	40	10	**167 591 006**	**167 591 016**	97	190	21	1 ½
63	50	10	**167 591 007**	**167 591 017**	124	219	28	2
75	65	10	**167 591 008**	**167 591 018**	166	256	29	2 ½
90	80	10	**167 591 009**	**167 591 019**	200	275	33	3
110	100	10	**167 591 010**	**167 591 020**	238	318	39	4





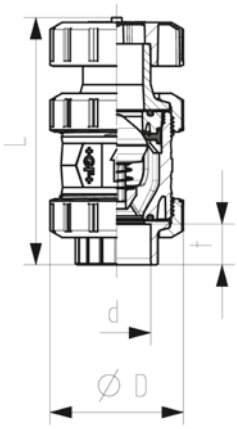
PROGEF Standard Ventilating and bleed valve type 591
With socket fusion spigots metric

Model:

- Material: PP-H
- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length

d (mm)	SDR	DN (mm)	PN (bar)	EPDM Code	FKM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	11	10	10	**167 591 041**	**167 591 051**	50	135	13	⅜
20	11	15	10	**167 591 042**	**167 591 052**	50	140	14	½
25	11	20	10	**167 591 043**	**167 591 053**	58	157	16	¾
32	11	25	10	**167 591 044**	**167 591 054**	68	168	18	1
40	11	32	10	**167 591 045**	**167 591 055**	84	189	20	1 ¼
50	11	40	10	**167 591 046**	**167 591 056**	97	211	23	1 ½
63	11	50	10	**167 591 047**	**167 591 057**	124	245	27	2
75	11	65	10	**167 591 048**	**167 591 058**	166	280	48	2 ½
90	11	80	10	**167 591 049**	**167 591 059**	200	296	49	3
110	11	100	10	**167 591 050**	**167 591 060**	238	336	54	4





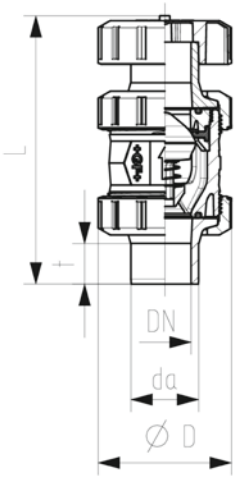
PROGEF Standard Ventilating valve type 595
With fusion sockets metric

Model:

- Material: PP-H
- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Spring HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length

d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	10	10	**167 595 001**	**167 595 011**	50	126	14	⅜
20	15	10	**167 595 002**	**167 595 012**	50	127	15	½
25	20	10	**167 595 003**	**167 595 013**	58	142	16	¾
32	25	10	**167 595 004**	**167 595 014**	68	153	18	1
40	32	10	**167 595 005**	**167 595 015**	84	171	19	1 ¼
50	40	10	**167 595 006**	**167 595 016**	97	190	21	1 ½
63	50	10	**167 595 007**	**167 595 017**	124	219	28	2
75	65	10	**167 595 008**	**167 595 018**	166	256	29	2 ½
90	80	10	**167 595 009**	**167 595 019**	200	275	33	3
110	100	10	**167 595 010**	**167 595 020**	238	318	39	4





PROGEF Standard Ventilating valve type 595
With socket fusion spigots metric

Model:

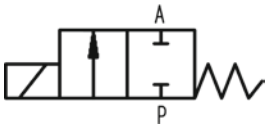
- Material: PP-H
- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Spring HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length

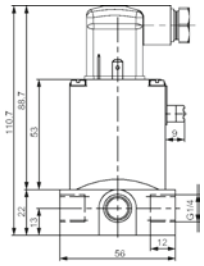
d (mm)	SDR	DN (mm)	PN (bar)	EPDM Code	FKM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	11	10	10	**167 595 041**	**167 595 051**	50	135	13	⅜
20	11	15	10	**167 595 042**	**167 595 052**	50	140	14	½
25	11	20	10	**167 595 043**	**167 595 053**	58	157	16	¾
32	11	25	10	**167 595 044**	**167 595 054**	68	168	18	1
40	11	32	10	**167 595 045**	**167 595 055**	84	189	20	1 ¼
50	11	40	10	**167 595 046**	**167 595 056**	97	211	23	1 ½
63	11	50	10	**167 595 047**	**167 595 057**	124	245	27	2
75	11	65	10	**167 595 048**	**167 595 058**	166	280	48	2 ½
90	11	80	10	**167 595 049**	**167 595 059**	200	296	49	3
110	11	100	10	**167 595 050**	**167 595 060**	238	336	54	4

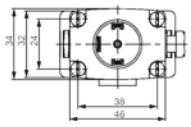
Solenoid valves

Type 166









PROGEF Standard Solenoid valve type 166
Straight-through valve 2/2-way

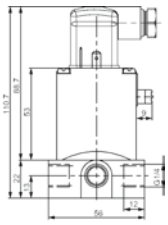
Model:

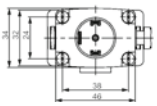
- Material: PP-H
- With manual override
- Electrical connection: cable plug
- Protection class IP 65
- Circuit function A: FC, closed in rest position

DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Inner Thread (inch)	Voltage	EPDM Code	FKM Code
3	8.0	4	G1/4	24V DC	**199 166 000**	**199 166 005**
4	4.0	5	G1/4	24V DC	**199 166 001**	**199 166 006**
5	3.0	6	G1/4	24V DC	**199 166 002**	**199 166 007**
3	10.0	4	G1/4	230V 50Hz ± 10%	**199 166 010**	
4	5.0	5	G1/4	230V 50Hz ± 10%	**199 166 011**	
5	4.5	6	G1/4	230V 50Hz ± 10%	**199 166 012**	**199 166 017**









PROGEF Standard Solenoid valve type 166
Distribution valve 3/2-way

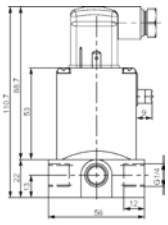
Model:

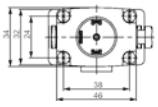
- Material: PP-H
- With manual override
- Electrical connection: cable plug
- Protection class IP 65
- Circuit function F: In rest position, pressure connection P connected to outlet B. A closed

DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Inner Thread (inch)	Voltage	Function	EPDM Code	FKM Code
4	4	5	G1/4	24V AC/DC	F	**199 166 201**	**199 166 206**
4	4	5	G1/4	230V, 50Hz	F	**199 166 211**	









PROGEF Standard Solenoid valve type 166
Mixing valve 3/2-way

Model:

- Material: PP-H
- With manual override
- Electrical connection: cable plug
- Protection class IP 65
- Circuit function E: In rest position, pressure connection P2 connected to outlet A. P1 closed

DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Inner Thread (inch)	Voltage	PN (bar)	EPDM Code	FKM Code
3	4	4	G1/4	24V AC/DC	0 - 4	**199 166 150**	
4	2	5	G1/4	24V AC/DC	0 - 2	**199 166 151**	**199 166 156**

Cone check valves

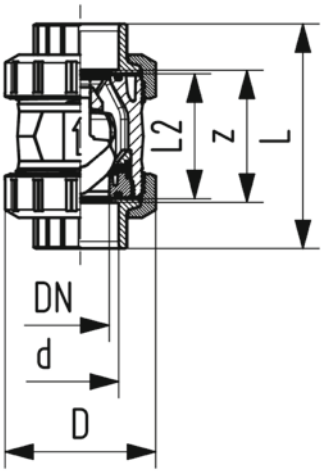
Type 561



PROGEF Standard Check valve type 561
Without spring
With fusion sockets metric

Model:

- Material: PP-H
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	190	**167 561 001**	0.080	**167 561 011**	0.080
20	15	½	10	180	**167 561 002**	0.083	**167 561 012**	0.080
25	20	¾	10	380	**167 561 003**	0.128	**167 561 013**	0.180
32	25	1	10	460	**167 561 004**	0.200	**167 561 014**	0.190
40	32	1 ¼	10	850	**167 561 005**	0.332	**167 561 015**	0.340
50	40	1 ½	10	1080	**167 561 006**	0.498	**167 561 016**	0.480
63	50	2	10	1670	**167 561 007**	0.941	**167 561 017**	0.974
75	65	2 ½	10	2950	**167 561 008**	2.300	**167 561 018**	2.310
90	80	3	10	3600	**167 561 009**	3.560	**167 561 019**	3.580
110	100	4	10	4150	**167 561 010**	5.900	**167 561 020**	5.930

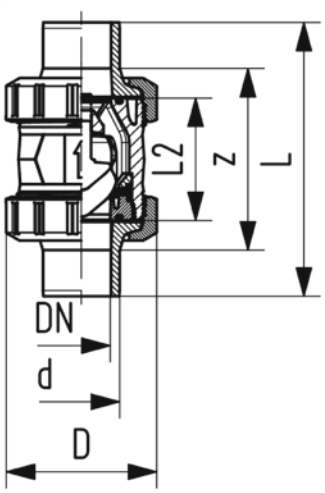
d (mm)	D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
16	50	93	56	67	⅜
20	50	95	56	66	½
25	58	109	65	77	¾
32	68	119	71	83	1
40	84	135	85	99	1 ¼
50	97	147	89	105	1 ½
63	124	168	101	117	2
75	166	233	136	167	2 ½
90	200	254	141	180	3
110	238	301	164	215	4



PROGEF Standard Check valve type 561
Without spring
With socket fusion spigots metric

Model:

- Material: PP-H
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	190	**167 561 041**	0.080	**167 561 051**	0.080
20	15	½	10	180	**167 561 042**	0.090	**167 561 052**	0.090
25	20	¾	10	380	**167 561 043**	0.170	**167 561 053**	0.190
32	25	1	10	460	**167 561 044**	0.200	**167 561 054**	0.200
40	32	1 ¼	10	850	**167 561 045**	0.340	**167 561 055**	0.350
50	40	1 ½	10	1080	**167 561 046**	0.510	**167 561 056**	0.510
63	50	2	10	1670	**167 561 047**	0.940	**167 561 057**	0.950
75	65	2 ½	10	2950	**167 561 048**	2.360	**167 561 058**	2.370
90	80	3	10	3600	**167 561 049**	3.730	**167 561 059**	3.750
110	100	4	10	4150	**167 561 050**	5.960	**167 561 060**	5.980

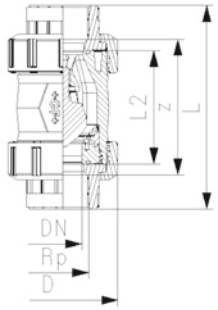
d (mm)	D (mm)	L (mm)	L2 (mm)	closest inch (inch)
16	50	110	56	⅜
20	50	120	56	½
25	58	139	65	¾
32	68	150	71	1
40	84	170	85	1 ¼
50	97	190	89	1 ½
63	124	220	101	2
75	166	280	136	2 ½
90	200	296	141	3
110	238	336	164	4



PROGEF Standard Check valve type 561
Without spring
With threaded sockets reinforced Rp

Model:

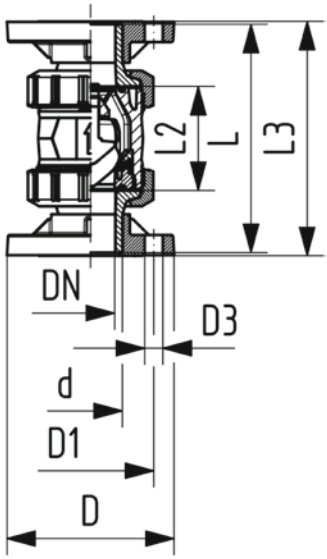
- Material: PP-H
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	Rp	⅜	10	190	**167 561 021**	0.080	**167 561 031**	0.080
20	15	Rp	½	10	180	**167 561 022**	0.090	**167 561 032**	0.090
25	20	Rp	¾	10	380	**167 561 023**	0.170	**167 561 033**	0.180
32	25	Rp	1	10	460	**167 561 024**	0.200	**167 561 034**	0.210
40	32	Rp	1 ¼	10	850	**167 561 025**	0.350	**167 561 035**	0.360
50	40	Rp	1 ½	10	1080	**167 561 026**	0.500	**167 561 036**	0.510
63	50	Rp	2	10	1670	**167 561 027**	0.920	**167 561 037**	0.920

D (mm)	L (mm)	L2 (mm)	z (mm)
50	96	56	69
50	99	56	67
58	111	65	78
68	127	71	85
84	146	85	100
97	157	89	106
124	183	101	121





PROGEF Standard Check valve type 561
Without spring
With fixed flanges metric

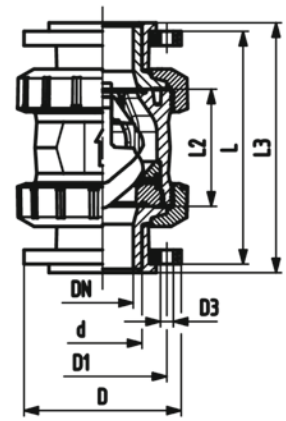
Model:

- Material: PP-H
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Installation length according to EN 558-1
- Z-length, end connectors and union nuts **not** compatible with type 360
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	180	**167 561 182**	0.220	**167 561 192**	0.220
25	20	¾	10	380	**167 561 183**	0.340	**167 561 193**	0.350
32	25	1	10	460	**167 561 184**	0.440	**167 561 194**	0.440
40	32	1 ¼	10	850	**167 561 185**	0.730	**167 561 195**	0.730
50	40	1 ½	10	1080	**167 561 186**	0.970	**167 561 196**	0.970
63	50	2	10	1670	**167 561 187**	1.600	**167 561 197**	1.600

d (mm)	D (mm)	D1 (mm)	D3 (mm)	L (mm)	L2 (mm)	L3 (mm)	closest inch (inch)
20	95	65	14	120	56	130	½
25	105	75	14	140	65	150	¾
32	115	85	14	150	71	160	1
40	140	100	18	170	85	180	1 ¼
50	150	110	18	190	89	200	1 ½
63	165	125	18	220	101	230	2





PROGEF Standard Check valve type 561
Without spring
With backing flanges PP-st metric

Model:

- Material: PP-H
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
75	65	2 ½	10	2950	**167 561 428**	4.710	**167 561 438**	4.720
90	80	3	10	3600	**167 561 429**	6.850	**167 561 439**	6.860
110	100	4	10	4150	**167 561 430**	9.280	**167 561 440**	9.300

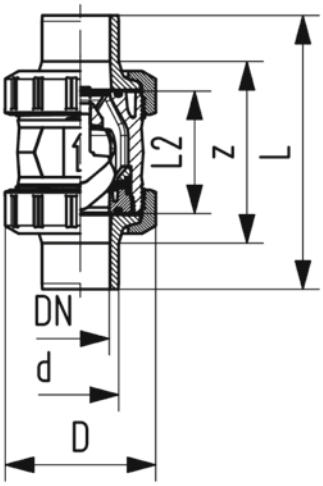
d (mm)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	closest inch (inch)
75	166	145	18	149	85	280	270	136	290	70	64	206	M8	1 ¼
90	200	160	18	161	105	296	270	141	310	70	64	206	M8	1 ½
110	238	180	18	178	123	336	320	164	350	120	64	256	M12	2



PROGEF Standard Check valve type 561
Without spring
With butt fusion spigots SDR17,6 metric

Model:

- Material: PP-H
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d (mm)	DN (mm)	Size (inch)	SDR	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
50	40	1 ½	17.6	10	1080	**167 561 066**	0.510	**167 561 076**	0.510
63	50	2	17.6	10	1670	**167 561 067**	0.940	**167 561 077**	0.940
75	65	2 ½	17.6	10	2950	**167 561 068**	2.340	**167 561 078**	2.360
90	80	3	17.6	10	3600	**167 561 069**	3.650	**167 561 079**	3.670
110	100	4	17.6	10	4150	**167 561 070**	5.790	**167 561 080**	5.820

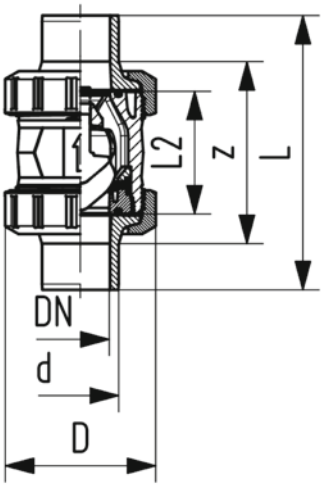
d (mm)	D (mm)	L (mm)	L2 (mm)	e (mm)	closest inch (inch)
50	97	191	89	2.9	1 ½
63	124	220	101	3.6	2
75	166	266	136	4.7	2 ½
90	200	264	141	5.5	3
110	238	301	164	6.8	4



PROGEF Standard Check valve type 561
Without spring
With butt fusion spigots IR-Plus SDR11 metric

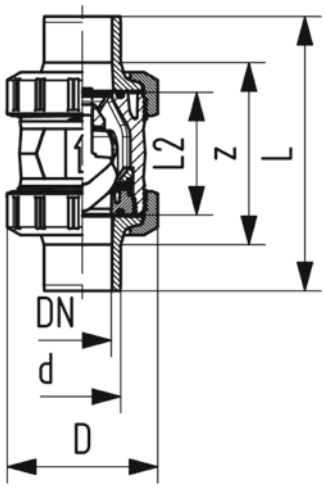
Model:

- Material: PP-H
- Ball is sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d (mm)	DN (mm)	Size (inch)	SDR	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	11	10	180	**167 561 082**	0.080	**167 561 092**	0.080
25	20	¾	11	10	380	**167 561 083**	0.170	**167 561 093**	0.180
32	25	1	11	10	460	**167 561 084**	0.203	**167 561 094**	0.190
40	32	1 ¼	11	10	850	**167 561 085**	0.340	**167 561 095**	0.340
50	40	1 ½	11	10	1080	**167 561 086**	0.523	**167 561 096**	0.490
63	50	2	11	10	1670	**167 561 087**	0.989	**167 561 097**	1.027
75	65	2 ½	11	10	2950	**167 561 088**	2.350	**167 561 098**	2.360
90	80	3	11	10	3600	**167 561 089**	3.660	**167 561 099**	3.680
110	100	4	11	10	4150	**167 561 090**	5.810	**167 561 100**	5.830

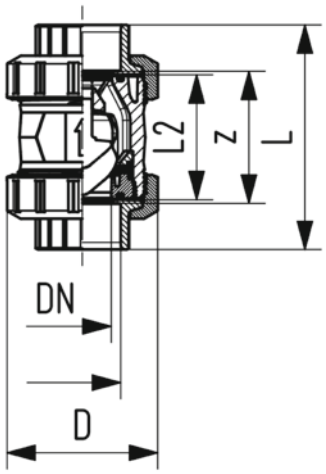
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d (mm)	D (mm)	L (mm)	L2 (mm)	e (mm)	closest inch (inch)
20	50	130	56	1.9	½
25	58	143	65	2.3	¾
32	68	150	71	2.9	1
40	84	171	85	3.7	1 ¼
50	97	191	89	4.6	1 ½
63	124	220	101	5.8	2
75	166	266	136	6.8	2 ½
90	200	264	141	8.2	3
110	238	301	164	10.0	4

Type 562





PROGEF Standard Check valve type 562
With threaded sockets reinforced Rp

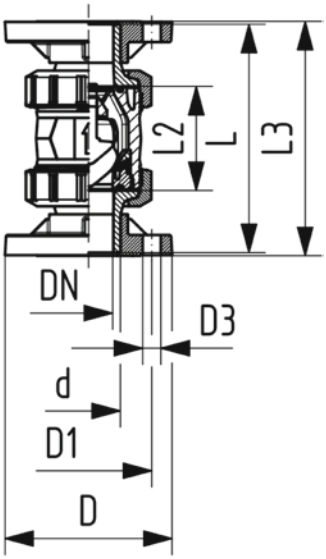
Model:

- Material: PP-H
- For horizontal or vertical installation
- 100% leak-tight in the closed/idle state, independent of installation orientation and without hydrostatic head
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

d (mm)	Rp (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	⅜	10	10	190	**167 562 021**	0.080	**167 562 031**	0.080
20	½	15	10	180	**167 562 022**	0.090	**167 562 032**	0.090
25	¾	20	10	380	**167 562 023**	0.170	**167 562 033**	0.180
32	1	25	10	460	**167 562 024**	0.200	**167 562 034**	0.210
40	1 ¼	32	10	850	**167 562 025**	0.350	**167 562 035**	0.360
50	1 ½	40	10	1080	**167 562 026**	0.500	**167 562 036**	0.510
63	2	50	10	1670	**167 562 027**	0.920	**167 562 037**	0.920

d (mm)	Rp (inch)	D (mm)	L (mm)	L2 (mm)	z (mm)
16	⅜	50	96	56	69
20	½	50	99	56	67
25	¾	58	111	65	78
32	1	68	127	71	85
40	1 ¼	84	146	85	100
50	1 ½	97	157	89	106
63	2	124	183	101	121





PROGEF Standard Check valve type 562
With fixed flanges metric

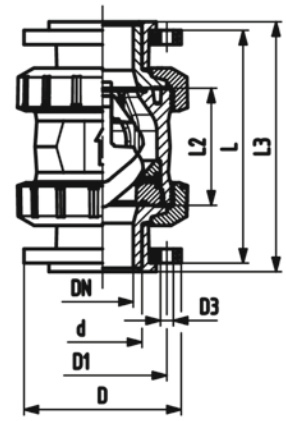
Model:

- Material: PP-H
- For horizontal or vertical installation
- 100% leak-tight in the closed/idle state, independent of installation orientation and without hydrostatic head
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Installation length according to EN 558-1
- Z-length, end connectors and union nuts **not** compatible with type 360
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	10	180	**167 562 182**	0.220	**167 562 192**	0.220
25	20	10	380	**167 562 183**	0.340	**167 562 193**	0.350
32	25	10	460	**167 562 184**	0.440	**167 562 194**	0.440
40	32	10	850	**167 562 185**	0.730	**167 562 195**	0.730
50	40	10	1080	**167 562 186**	0.970	**167 562 196**	0.970
63	50	10	1670	**167 562 187**	1.600	**167 562 197**	1.600

d (mm)	D (mm)	D1 (mm)	D3 (mm)	L (mm)	L2 (mm)	L3 (mm)	closest inch (inch)
20	95	65	14	120	56	130	½
25	105	75	14	140	65	150	¾
32	115	85	14	150	71	160	1
40	140	100	18	170	85	180	1 ¼
50	150	110	18	190	89	200	1 ½
63	165	125	18	220	101	230	2





PROGEF Standard Check valve type 562
With backing flanges PP-st metric

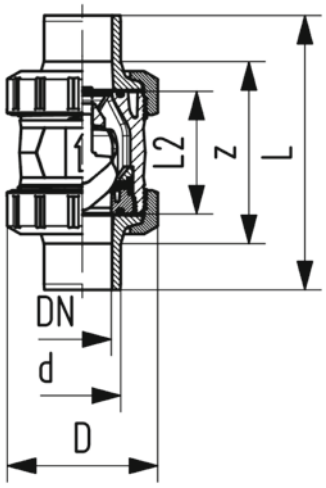
Model:

- Material: PP-H
- For horizontal or vertical installation
- 100% leak-tight in the closed/idle state, independent of installation orientation and without hydrostatic head
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
75	65	10	2950	**167 562 428**	4.710	**167 562 438**	4.720
90	80	10	3600	**167 562 429**	6.850	**167 562 439**	6.860
110	100	10	4150	**167 562 430**	9.280	**167 562 440**	9.300

d (mm)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	closest inch (inch)
75	166	145	18	149	85	280	270	136	290	70	64	206	M8	1 ¼
90	200	160	18	161	105	296	270	141	310	70	64	206	M8	1 ½
110	238	180	18	178	123	336	320	164	350	120	64	256	M12	2





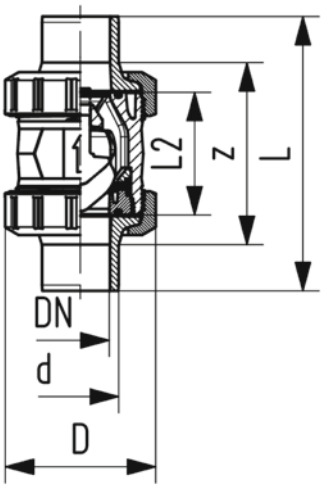
PROGEF Standard Check valve type 562
With butt fusion spigots
SDR17,6 metric

Model:

- Material: PP-H
- For horizontal or vertical installation
- 100% leak-tight in the closed/idle state, independent of installation orientation and without hydrostatic head
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	SDR	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
50	40	10	1080	17.6	**167 562 066**	0.510	**167 562 076**	0.510
63	50	10	1670	17.6	**167 562 067**	0.940	**167 562 077**	0.940
75	65	10	2950	17.6	**167 562 068**	2.340	**167 562 078**	2.360
90	80	10	3600	17.6	**167 562 069**	3.650	**167 562 079**	3.670
110	100	10	4150	17.6	**167 562 070**	5.790	**167 562 080**	5.820

table continued on the next page



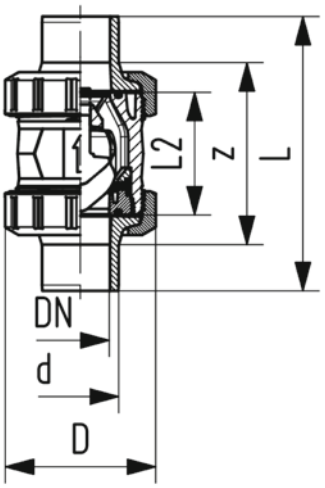
d (mm)	D (mm)	L (mm)	L2 (mm)	e (mm)	closest inch (inch)
50	97	191	89	2.9	1 ½
63	124	220	101	3.6	2
75	166	266	136	4.7	2 ½
90	200	264	141	5.5	3
110	238	301	164	6.8	4



PROGEF Standard Check valve type 562
With butt fusion spigots IR-Plus
SDR11 metric

Model:

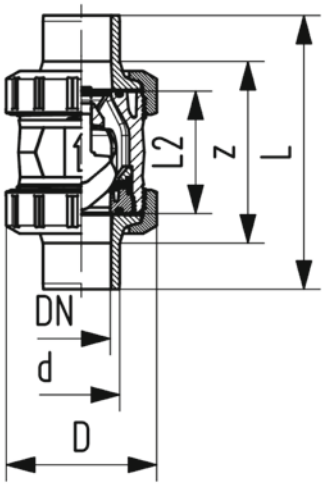
- Material: PP-H
- For horizontal or vertical installation
- 100% leak-tight in the closed/idle state, independent of installation orientation and without hydrostatic head
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	SDR	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	10	180	11	**167 562 082**	0.080	**167 562 092**	0.080
25	20	10	380	11	**167 562 083**	0.170	**167 562 093**	0.180
32	25	10	460	11	**167 562 084**	0.190	**167 562 094**	0.190
40	32	10	850	11	**167 562 085**	0.340	**167 562 095**	0.340
50	40	10	1080	11	**167 562 086**	0.490	**167 562 096**	0.490
63	50	10	1670	11	**167 562 087**	0.930	**167 562 097**	0.930
75	65	10	2950	11	**167 562 088**	2.350	**167 562 098**	2.360
90	80	10	3600	11	**167 562 089**	3.660	**167 562 099**	3.680
110	100	10	4150	11	**167 562 090**	5.810	**167 562 100**	5.830

d (mm)	D (mm)	L (mm)	L2 (mm)	e (mm)	closest inch (inch)
20	50	130	56	1.9	½
25	58	143	65	2.3	¾
32	68	150	71	2.9	1
40	84	171	85	3.7	1 ¼
50	97	191	89	4.6	1 ½
63	124	220	101	5.8	2
75	166	266	136	6.8	2 ½
90	200	264	141	8.2	3
110	238	301	164	10.0	4





PROGEF Standard Check valve type 562
With socket fusion spigots metric

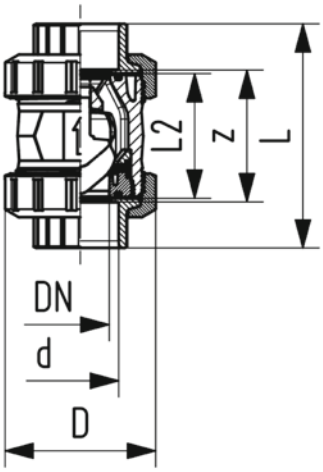
Model:

- Material: PP-H
- For horizontal or vertical installation
- 100% leak-tight in the closed/idle state, independent of installation orientation and without hydrostatic head
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	10	190	**167 562 041**	0.080	**167 562 051**	0.080
20	15	10	180	**167 562 042**	0.090	**167 562 052**	0.090
25	20	10	380	**167 562 043**	0.170	**167 562 053**	0.190
32	25	10	460	**167 562 044**	0.200	**167 562 054**	0.200
40	32	10	850	**167 562 045**	0.340	**167 562 055**	0.350
50	40	10	1080	**167 562 046**	0.510	**167 562 056**	0.510
63	50	10	1670	**167 562 047**	0.940	**167 562 057**	0.950
75	65	10	2950	**167 562 048**	2.360	**167 562 058**	2.370
90	80	10	3600	**167 562 049**	3.730	**167 562 059**	3.750
110	100	10	4150	**167 562 050**	5.960	**167 562 060**	5.980

d (mm)	D (mm)	L (mm)	L2 (mm)	closest inch (inch)
16	50	110	56	⅜
20	50	120	56	½
25	58	139	65	¾
32	68	150	71	1
40	84	170	85	1 ¼
50	97	190	89	1 ½
63	124	220	101	2
75	166	280	136	2 ½
90	200	296	141	3
110	238	336	164	4





PROGEF Standard Check valve type 562
With fusion sockets metric

Model:

- Material: PP-H
- For horizontal or vertical installation
- 100% leak-tight in the closed/idle state, independent of installation orientation and without hydrostatic head
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

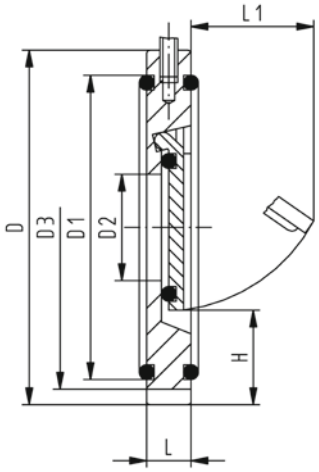
d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	10	190	**167 562 001**	0.080	**167 562 011**	0.080
20	15	10	180	**167 562 002**	0.080	**167 562 012**	0.080
25	20	10	380	**167 562 003**	0.170	**167 562 013**	0.180
32	25	10	460	**167 562 004**	0.190	**167 562 014**	0.190
40	32	10	850	**167 562 005**	0.330	**167 562 015**	0.340
50	40	10	1080	**167 562 006**	0.480	**167 562 016**	0.480
63	50	10	1670	**167 562 007**	0.880	**167 562 017**	0.880
75	65	10	2950	**167 562 008**	2.300	**167 562 018**	2.310
90	80	10	3600	**167 562 009**	3.560	**167 562 019**	3.580
110	100	10	4150	**167 562 010**	5.900	**167 562 020**	5.930

d (mm)	D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
16	50	93	56	67	⅜
20	50	95	56	66	½
25	58	109	65	77	¾
32	68	119	71	83	1
40	84	135	85	99	1 ¼
50	97	147	89	105	1 ½
63	124	168	101	117	2
75	166	233	136	167	2 ½
90	200	254	141	180	3
110	238	301	164	215	4

Wafer check valves

Type 369





PROGEF Standard Wafer check valve type 369
Without spring

Model:

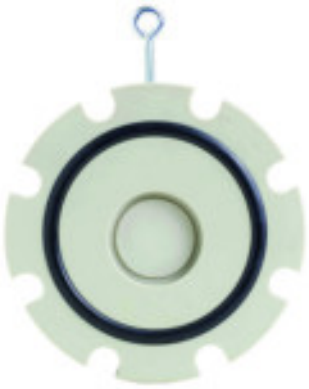
- Material: PP-H
- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

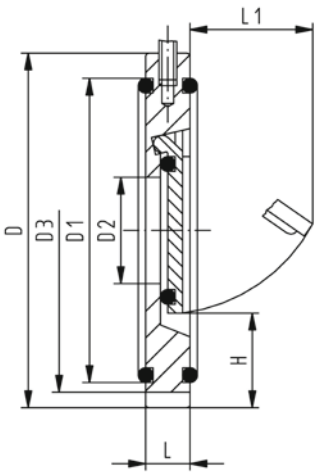
Installation instruction:

- Installation between ISO/DIN (all dimensions) and ANSI/BS flange adaptors (all except DN32 and DN125)
- Installation with ANSI/BS flange adaptor: for wafer check valves DN40 to DN80 you have to use ANSI/BS flange adaptors with the next bigger dimension (example DN40 wafer check valve between DN50 ANSI/BS flange adaptor)
- Centering by body diameter (ISO/DIN by D3, ANSI/BS by D)
- It is necessary to use a special outlet flange adaptor PP or PE on the outgoing side of the wafer check valve
- Sealing with special flange gasket (except DN32, o-ring)
- A stabilizing zone of at least 5 times nominal diameter (DN) should be provided before and after the wafer check valve (10 times DN is recommended)
- No direct installation on pump flange or following bend allowed
- Wafer check valves without reset spring are not recommended for pulsating flows (production of noise)

d (mm)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
40	32	10	**167 369 002**	0.070	**167 369 022**	0.084
50	40	10	**167 369 003**	0.099	**167 369 023**	0.110
63	50	10	**167 369 004**	0.143	**167 369 024**	0.159
75	65	10	**167 369 005**	0.218	**167 369 025**	0.232
90	80	10	**167 369 006**	0.272	**167 369 026**	0.264
110	100	10	**167 369 007**	0.378	**167 369 027**	0.405
140	125	10	**167 369 009**	0.532	**167 369 029**	0.594
160	150	6	**167 369 010**	0.754	**167 369 030**	0.805
225	200	6	**167 369 011**	1.409	**167 369 031**	1.400
280	250	6	**167 369 012**	2.201	**167 369 032**	2.524
315	300	6	**167 369 013**	3.671	**167 369 033**	3.520

d (mm)	closest inch (inch)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	L (mm)	L1 (mm)	H (mm)	Opening pressure vertical (mbar)	Opening pressure horizontal (mbar)	Minimum water column for sealing (m)
40	1 ¼	85	59	18		15	22	25	10	1	3
50	1 ½	105	77	22	95	16	27	27	10	1	3
63	2	124	92	32	109	18	40	29	10	1	3
75	2 ½	137	111	40	129	20	55	31	10	1	3
90	3	175	131	54	144	20	67	32	10	1	3
110	4	175	153	70	164	23	77	31	10	1	3
140	5	195	185	92		23	94	35	10	1	3
160	6	222	198	105	220	26	100	41	10	1	3
225	8	279	259	154	275	34	152	38	18	1	3
280	10	340	311	192	330	40	180	41	18	1	3
315	12	410	347	227	380	45	215	41	18	1	3





PROGEF Standard Wafer check valve type 369
With Hastelloy C spring

Model:

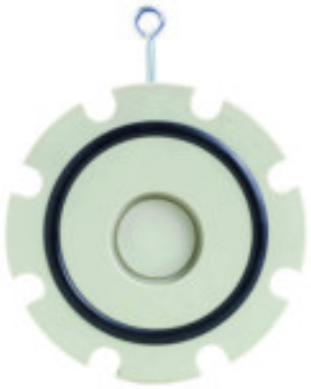
- Material: PP-H
- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

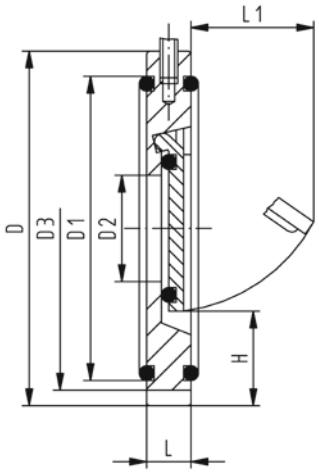
Installation instruction:

- Installation between ISO/DIN (all dimensions) and ANSI/BS flange adaptors (all except DN32 and DN125)
- Installation with ANSI/BS flange adaptor: for wafer check valves DN40 to DN80 you have to use ANSI/BS flange adaptors with the next bigger dimension (example DN40 wafer check valve between DN50 ANSI/BS flange adaptor)
- Centering by body diameter (ISO/DIN by D3, ANSI/BS by D)
- It is necessary to use a special outlet flange adaptor PP or PE on the outgoing side of the wafer check valve
- Sealing with special flange gasket (except DN32, o-ring)
- A stabilizing zone of at least 5 times nominal diameter (DN) should be provided before and after the wafer check valve (10 times DN is recommended)
- No direct installation on pump flange or following bend allowed

d (mm)	DN (mm)	Size (inch)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
40	32	1 ¼	10	**167 369 082**	0.090	**167 369 102**	0.090
50	40	1 ½	10	**167 369 083**	0.096	**167 369 103**	0.097
63	50	2	10	**167 369 084**	0.170	**167 369 104**	0.170
75	65	2 ½	10	**167 369 085**	0.220	**167 369 105**	0.220
90	80	3	10	**167 369 086**	0.272	**167 369 106**	0.264
110	100	4	10	**167 369 087**	0.366	**167 369 107**	0.370
140	125	5	10	**167 369 089**	0.529	**167 369 109**	0.500
160	150	6	6	**167 369 090**	0.762	**167 369 110**	0.760
225	200	8	6	**167 369 091**	0.535	**167 369 111**	1.400
280	250	10	6	**167 369 092**	2.400	**167 369 112**	2.400
315	300	12	6	**167 369 093**	3.520	**167 369 113**	3.520

d (mm)	closest inch (inch)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	L (mm)	L1 (mm)	H (mm)	Opening pressure vertical (mbar)	Opening pressure horizontal (mbar)	Minimum water column for sealing (m)
40	1 ¼	85	59	18		15	22	25	30	20	3
50	1 ½	105	77	22	95	16	27	27	30	20	3
63	2	124	92	32	109	18	40	29	30	20	3
75	2 ½	137	111	40	129	20	55	31	30	20	3
90	3	175	131	54	144	20	67	32	30	20	3
110	4	175	153	70	164	23	77	31	30	20	3
140	5	195	185	92		23	94	35	30	20	3
160	6	222	198	105	220	26	100	41	30	20	3
225	8	279	259	154	275	34	152	38	38	20	3
280	10	340	311	192	330	40	180	41	38	20	3
315	12	410	347	227	380	45	215	41	38	20	3





PROGEF Standard Wafer check valve type 369
With V4A spring (stainless steel 316)

Model:

- Material: PP-H
- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

Installation instruction:

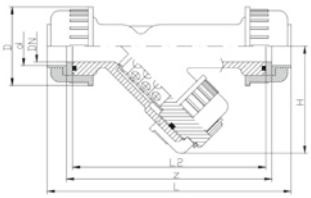
- Installation between ISO/DIN (all dimensions) and ANSI/BS flange adaptors (all except DN32 and DN125)
- Installation with ANSI/BS flange adaptor: for wafer check valves DN40 to DN80 you have to use ANSI/BS flange adaptors with the next bigger dimension (example DN40 wafer check valve between DN50 ANSI/BS flange adaptor)
- Centering by body diameter (ISO/DIN by D3, ANSI/BS by D)
- It is necessary to use a special outlet flange adaptor PP or PE on the outgoing side of the wafer check valve
- Sealing with special flange gasket (except DN32, o-ring)
- A stabilizing zone of at least 5 times nominal diameter (DN) should be provided before and after the wafer check valve (10 times DN is recommended)
- No direct installation on pump flange or following bend allowed

d (mm)	DN (mm)	Size (inch)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
40	32	1 ¼	10	**167 369 042**	0.090	**167 369 062**	0.071
50	40	1 ½	10	**167 369 043**	0.095	**167 369 063**	0.100
63	50	2	10	**167 369 044**	0.141	**167 369 064**	0.170
75	65	2 ½	10	**167 369 045**	0.218	**167 369 065**	0.245
90	80	3	10	**167 369 046**	0.260	**167 369 066**	0.260
110	100	4	10	**167 369 047**	0.375	**167 369 067**	0.370
140	125	5	10	**167 369 049**	0.535	**167 369 069**	0.500
160	150	6	6	**167 369 050**	0.740	**167 369 070**	0.740
225	200	8	6	**167 369 051**	1.376	**167 369 071**	1.400
280	250	10	6	**167 369 052**	2.345	**167 369 072**	2.400
315	300	12	6	**167 369 053**	3.520	**167 369 073**	3.520

d (mm)	closest inch (inch)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	L (mm)	L1 (mm)	H (mm)	Opening pressure vertical (mbar)	Opening pressure horizontal (mbar)	Minimum water column for sealing (m)
40	1 ¼	85	59	18		15	22	25	30	20	3
50	1 ½	105	77	22	95	16	27	27	30	20	3
63	2	124	92	32	109	18	40	29	30	20	3
75	2 ½	137	111	40	129	20	55	31	30	20	3
90	3	175	131	54	144	20	67	32	30	20	3
110	4	175	153	70	164	23	77	31	30	20	3
140	5	195	185	92		23	94	35	30	20	3
160	6	222	198	105	220	26	100	41	30	20	3
225	8	279	259	154	275	34	152	38	38	20	3
280	10	340	311	192	330	40	180	41	38	20	3
315	12	410	347	227	380	45	215	41	38	20	3

Strainers





PROGEF Standard Line strainer type 305
With fusion sockets metric

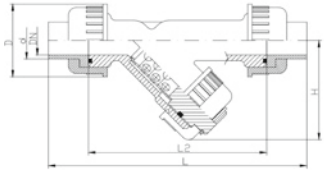
Model:

- Material: PP-H (housing), PP (screen)
- Protects valves, pumps, etc. from becoming soiled
- Easy dismantling for cleaning the screens
- Screen perforation 0.5 mm
- For easy installation and removal
- Overall length according to EN 558

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	10	35	**167 305 000**	0.209	**167 305 049**	0.214
25	20	10	65	**167 305 050**	0.256	**167 305 099**	0.257
32	25	10	90	**167 305 100**	0.329	**167 305 149**	0.327
40	32	10	155	**167 305 150**	0.579	**167 305 199**	0.586
50	40	10	225	**167 305 200**	0.758	**167 305 249**	0.748
63	50	10	370	**167 305 250**	1.188	**167 305 299**	1.185

d (mm)	D (mm)	H (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
20	52	75	168	130	140	½
25	62	80	192	150	160	¾
32	68	90	206	160	170	1
40	85	110	230	180	190	1 ¼
50	85	125	256	200	210	1 ½
63	102	150	294	230	240	2





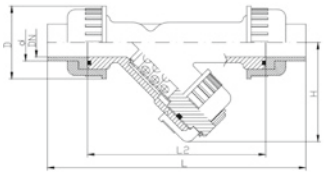
PROGEF Standard Line strainers type 305
With butt fusion spigots IR-Plus SDR11 metric

Model:

- Material: PP-H (housing), PP (screen)
- Protects valves, pumps, etc. from becoming soiled
- Easy dismantling for cleaning the screens
- Screen perforation 0.5 mm
- For easy installation and removal
- Overall length according to EN 558

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	10	35	**167 305 300**	0.218	**167 305 349**	0.219
25	20	10	65	**167 305 350**	0.267	**167 305 399**	0.268
32	25	10	90	**167 305 400**	0.353	**167 305 449**	0.354
40	32	10	155	**167 305 450**	0.616	**167 305 499**	0.623
50	40	10	225	**167 305 500**	0.805	**167 305 549**	0.816
63	50	10	370	**167 305 550**	1.282	**167 305 599**	1.295

table continued on the next page



d (mm)	D (mm)	H (mm)	L (mm)	L2 (mm)	e (mm)	closest inch (inch)
20	52	75	238	130	1.9	½
25	62	80	264	150	2.3	¾
32	68	90	280	160	3.0	1
40	85	110	306	180	3.7	1 ¼
50	85	125	332	200	4.6	1 ½
63	102	150	368	230	5.8	2

PROGEF Standard ASTM / ANSI

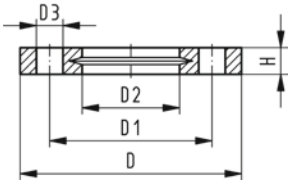


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Butt fusion flange adaptors, flanges and gaskets





Flanges PP-V (full plastic)

Model:

- Full-plastic flange PP-GF (30 % glass-fibre reinforced)
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D2024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

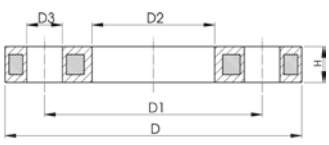
AL: number of holes

d (mm)	DN (mm)	d (inch)	PN (bar)	Bolt / circle	Design	Code	Weight (kg)
90	80	3	16	class 150	Butt	**727 701 513**	0.607
110	100	4	16	class 150	Butt	**727 701 514**	0.736
160	150	6	16	PN10/ class 150	Butt	**727 700 517**	1.200
200	200	8	16	PN10/ class 150	Butt	**727 700 519**	1.400
225	200	8	16	PN10/ class 150	Butt	**727 700 520**	1.400
250	250	10	10	class 150	Butt	**727 701 521**	2.241
280	250	10	10	class 150	Butt	**727 701 522**	2.173
315	300	12	10	class 150	Butt	**727 701 523**	3.627

d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	Hmax (mm)	AL	M
90	200	152	108	19	27	4	M16
110	229	190	128	19	28	8	M16
160	285	240	178	22	32	8	M20
200	340	297	235	22	34	8	M20
225	340	297	238	22	34	8	M20
250	406	362	288	26	38	12	M20
280	406	362	294	26	38	12	M20
315	483	432	338	26	42	12	M20







Flanges PP-Steel

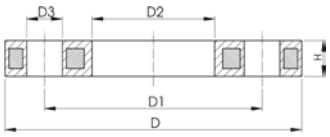
Model:

- Material: PP (30% glass-fibre reinforced) with steel ring
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D4024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes
* FM 1613 approved - 15 bar
** Profiled loose flange

	d (mm)	Size (inch)	DN (mm)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
	20	½	15	16	ASME	class 150	Butt/Socket	**727 701 206**	0.213
	25	¾	20	16	ASME	class 150	Butt/Socket	**727 701 207**	0.260
	32	1	25	16	ASME	class 150	Butt/Socket	**727 701 208**	0.416
	40	1 ¼	32	16	ASME	class 150	Butt/Socket	**727 701 209**	0.730
	50	1 ½	40	16	ASME	class 150	Butt/Socket	**727 701 210**	0.809
	63		50	16	ASME	class 150	Butt/Socket	**727 701 211**	0.866
	75	2 ½	65	16	ASME	class 150	Butt/Socket	**727 701 212**	1.117
	90	3	80	16	ASME	class 150	Butt	**727 701 313**	1.499
	110	4	100	16	ASME	class 150	Butt	**727 701 314**	1.739
	140	5	125	16	ASME	class 150	Butt	**727 701 315**	2.575
	160	6	150	16	Metric/ASME	PN10/ class 150	Butt	**727 700 717**	3.491
	200	8	200	16	Metric/ASME	PN10/ class 150	Butt	**727 700 719**	5.600
	225	8	200	16	Metric/ASME	PN10/ class 150	Butt	**727 700 720**	5.533

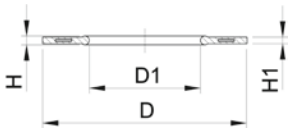
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d (mm)	Size (inch)	DN (mm)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
250	10	250	10	ASME	class 150	Butt	**727 701 321**	6.000
315	12	300	10	ASME	class 150	Butt	**727 701 322**	11.800
355	14	350	10	ASME	class 150	Butt	**727 701 323**	17.900
400	16	400	10	ASME	class 150	Butt	**727 701 324**	24.500
450	20	500	10	ASME	class 150	Butt	**727 701 325**	33.600

d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	Hmax (mm)	AL	M
20	95	60	28	16	12	4	M12
25	105	70	34	16	12	4	M12
32	115	79	42	16	16	4	M12
40	140	89	51	16	16	4	M16
50	150	98	62	16	18	4	M16
63	165	121	78	19	18	4	M16
75	185	140	92	19	18	4	M16
90	200	152	108	19	20	4	M16
110	229	190	128	19	20	8	M16
140	253	216	158	21	24	8	M16
160	285	240	178	22	24	8	M20
200	340	295	235	22	27	8	M20
225	340	297	238	22	27	8	M20
250	406	362	293	25	30	12	M24
315	483	432	338	25	34	12	M24
355	540	476	376	29	42	12	M27
400	597	539	429	29	44	16	M27
450	712	635	540	32	53	20	M30





Profile Flange Gasket EPDM/FKM ANSI/ASME

Model:

- Suitable for flanges adaptors PP/PE PVDF
- Hardness: 70° Shore EPDM, 75° Shore FKM
- Centered by the flange bolts
- Dimension D is in accordance with the inner diameter of the bolt circle

d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)	H1 (mm)
25	¾	20	16	**748 440 502**	0.010	**749 440 502**	0.011	54	27	4	3
32	1	25	16	**748 440 503**	0.011	**749 440 503**	0.023	64	33	4	3
40	1 ¼	32	16	**748 440 504**	0.017	**749 440 504**	0.024	73	42	4	3
50	1 ½	40	16	**748 440 505**	0.030	**749 440 505**	0.030	83	48	4	3
63	2	50	16	**748 440 506**	0.029	**749 440 506**	0.042	102	60	5	4
75	2 ½	65	16	**748 440 507**	0.046	**749 440 507**	0.068	121	73	5	4
90	3	80	16	**748 440 508**	0.053	**749 440 508**	0.083	133	89	5	4
110	4	100	16	**748 440 509**	0.088	**749 440 509**	0.139	171	115	6	5
150	6	150	16	**748 440 512**	0.127	**749 440 512**	0.240	219	168	8	6
225	8	200	16	**748 440 515**	0.195	**749 440 515**	0.316	279	219	8	6
250	10	250	16	**748 440 517**	0.243	**749 440 517**	0.373	337	273	8	6
315	12	300	16	**748 440 518**	0.398	**749 440 518**	0.750	406	325	8	6
355	14	350	10	**748 440 519**	0.800	**749 440 519**	0.800	448	356	10	7
400	16	400	10	**748 440 520**	0.900	**749 440 520**	0.900	512	406	10	7
450	18	450	10	**748 440 521**	1.000	**749 440 521**	1.000	547	457	10	7
500	20	500	10	**748 440 522**	1.000	**749 440 522**	1.000	604	508	10	7



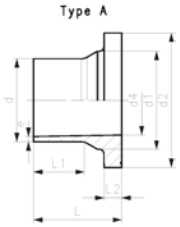


PROGEF Standard Flange adaptor PP-H ANSI SDR11/PN10 Combined jointing face: flat and serrated

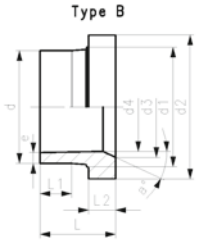
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR- Infrared welding compatible
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Suitable for flange connections to metric
- Injection moulded

Flange adapters are designed to work with most butterfly valves
For bigger dimensions, see flange adaptors in other chapters



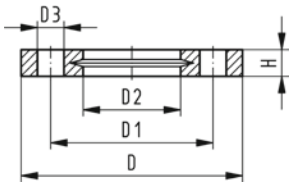
d (mm)	DN (mm)	PN (bar)	FM	Type	Code	Weight (kg)
25	20	10	IR	A	**727 798 757**	0.022
32	25	10	IR	A	**727 798 758**	0.039
40	32	10	IR	A	**727 798 759**	0.056
50	40	10	IR	A	**727 798 760**	0.087
90	80	10	IR	B	**727 798 763**	0.310



d (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	a
25	32	54		20	52	27	9	2.55	
32	40	63		26	54	28	10	3.15	
40	49	73		32	55	25	11	4.00	
50	60	82		40	62	32	12	4.95	
90	105	133	78	70	80	41	17	8.75	30

Socket fusion flange adaptors, flanges and gaskets





Flanges PP-V (full plastic)

Model:

- Full-plastic flange PP-GF (30 % glass-fibre reinforced)
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D2024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

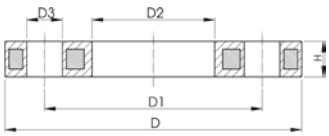
AL: number of holes

d (mm)	DN (mm)	d (inch)	PN (bar)	Bolt / circle	Design	Code	Weight (kg)
20	15	½	16	class 150	Butt/Socket	**727 701 406**	0.091
25	20	¾	16	class 150	Butt/Socket	**727 701 407**	0.120
32	25	1	16	class 150	Butt/Socket	**727 701 408**	0.147
40	32	1 ¼	16	class 150	Butt/Socket	**727 701 409**	0.246
50	40	1 ½	16	class 150	Butt/Socket	**727 701 410**	0.299
63	50	2	16	class 150	Butt/Socket	**727 701 411**	0.361
75	65	2 ½	16	class 150	Butt/Socket	**727 701 412**	0.492
90	80	3	16	class 150	Socket	**727 701 413**	0.605
110	100	4	16	class 150	Socket	**727 701 414**	0.704
160	150		16	PN10/ class 150	Socket	**727 700 417**	1.050
200	200		16	PN10/ class 150	Socket	**727 700 419**	1.629
225	200		16	PN10/ class 150	Socket	**727 700 420**	1.400
280	250	10	10	class 150	Socket	**727 701 422**	1.838
315	300	12	10	class 150	Socket	**727 701 423**	3.482

d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	Hmax (mm)	AL	M
20	95	60	28	16	16	4	M12
25	105	70	34	16	17	4	M12
32	115	79	42	16	18	4	M12
40	140	89	51	16	20	4	M16
50	150	98	62	16	22	4	M16
63	165	121	78	19	24	4	M16
75	185	140	92	19	26	4	M16
90	200	152	110	19	27	4	M16
110	229	190	133	19	28	8	M16
160	285	240	190	22	32	8	M20
200	340	297	226	22	34	8	M20
225	340	295	250	22	34	8	M20
280	406	362	310	26	38	12	M20
315	483	432	348	26	42	12	M20







Flanges PP-Steel

Model:

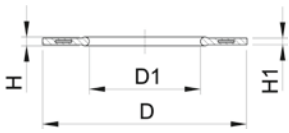
- Material: PP (30% glass-fibre reinforced) with steel ring
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D4024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes
* FM 1613 approved - 15 bar
** Profiled loose flange

	d (mm)	Size (inch)	DN (mm)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
	20	½	15	16	ASME	class 150	Butt/Socket	**727 701 206**	0.213
	25	¾	20	16	ASME	class 150	Butt/Socket	**727 701 207**	0.260
	32	1	25	16	ASME	class 150	Butt/Socket	**727 701 208**	0.416
	40	1 ¼	32	16	ASME	class 150	Butt/Socket	**727 701 209**	0.730
	50	1 ½	40	16	ASME	class 150	Butt/Socket	**727 701 210**	0.809
	63		50	16	ASME	class 150	Butt/Socket	**727 701 211**	0.866
	75	2 ½	65	16	ASME	class 150	Butt/Socket	**727 701 212**	1.117
	90	3	80	16	ASME	class 150	Socket	**727 701 213**	1.492
	110	4	100	16	ASME	class 150	Socket	**727 701 214**	1.695
	140	5	125	16	ASME	class 150	Butt	**727 701 315**	2.575
	160	6	150	16	Metric/ASME	PN10/ class 150	Socket	**727 700 817**	3.167
	200	8	200	16	Metric/ASME	PN10/ class 150	Socket	**727 700 819**	6.143
	225	8	200	16	Metric/ASME	PN10/ class 150	Socket	**727 700 820**	4.448

	d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	Hmax (mm)	AL	M
	20	95	60	28	16	12	4	M12
	25	105	70	34	16	12	4	M12
	32	115	79	42	16	16	4	M12
	40	140	89	51	16	16	4	M16
	50	150	98	62	16	18	4	M16
	63	165	121	78	19	18	4	M16
	75	185	140	92	19	18	4	M16
	90	200	152	110	19	20	4	M16
	110	229	190	133	19	20	8	M16
	140	253	216	158	21	24	8	M16
	160	285	240	190	22	26	8	M20
	200	340	295	226	22	29	8	M20
	225	340	297	250	22	29	8	M20





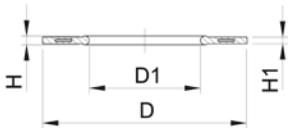
Profile Flange Gasket EPDM/FKM ANSI/ASME

Model:

- Suitable for flanges adaptors PP/PE PVDF
- Hardness: 70° Shore EPDM, 75° Shore FKM
- Centered by the flange bolts
- Dimension D is in accordance with the inner diameter of the bolt circle

d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)	H1 (mm)
25	¾	20	16	**748 440 502**	0.010	**749 440 502**	0.011	54	27	4	3
32	1	25	16	**748 440 503**	0.011	**749 440 503**	0.023	64	33	4	3
40	1 ¼	32	16	**748 440 504**	0.017	**749 440 504**	0.024	73	42	4	3
50	1 ½	40	16	**748 440 505**	0.030	**749 440 505**	0.030	83	48	4	3
63	2	50	16	**748 440 506**	0.029	**749 440 506**	0.042	102	60	5	4
75	2 ½	65	16	**748 440 507**	0.046	**749 440 507**	0.068	121	73	5	4
90	3	80	16	**748 440 508**	0.053	**749 440 508**	0.083	133	89	5	4
110	4	100	16	**748 440 509**	0.088	**749 440 509**	0.139	171	115	6	5

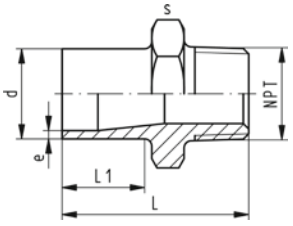
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d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)	H1 (mm)
150	6	150	16	**748 440 512**	0.127	**749 440 512**	0.240	219	168	8	6
225	8	200	16	**748 440 515**	0.195	**749 440 515**	0.316	279	219	8	6
250	10	250	16	**748 440 517**	0.243	**749 440 517**	0.373	337	273	8	6
315	12	300	16	**748 440 518**	0.398	**749 440 518**	0.750	406	325	8	6
355	14	350	10	**748 440 519**	0.800	**749 440 519**	0.800	448	356	10	7
400	16	400	10	**748 440 520**	0.900	**749 440 520**	0.900	512	406	10	7
450	18	450	10	**748 440 521**	1.000	**749 440 521**	1.000	547	457	10	7
500	20	500	10	**748 440 522**	1.000	**749 440 522**	1.000	604	508	10	7

Butt fusion transition fittings





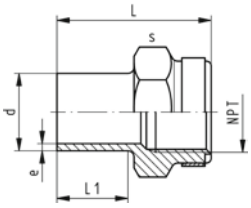
PROGEF Standard Adaptor nipple
PN10 Metric NPT male SDR11

Model:

- Material: PP-H
- With butt fusion spigot **SDR11** and NPT tapered male thread
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	s (mm)	e (mm)
20	NPT	½	10	IR	**727 914 656**	0.013	51	23	32	1.9
25	NPT	¾	10	IR	**727 914 657**	0.026	52	23	36	2.3
32	NPT	1	10	IR	**727 914 658**	0.026	55	23	46	2.9
40	NPT	1 ¼	10	IR	**727 914 659**	0.041	58	24	55	3.7
50	NPT	1 ½	10	IR	**727 914 660**	0.062	60	23	65	4.6
63	NPT	2	10	IR	**727 914 661**	0.097	67	26	80	5.8





PROGEF Standard Adaptor nipple
SDR11/PN10 Metric NPT female

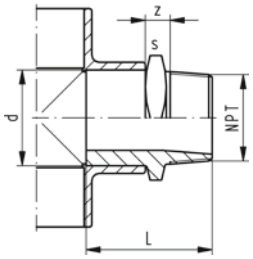
Model:

- Material: PP-H
- With butt fusion spigot **SDR11** and NPT tapered female thread, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Size (inch)	PN (bar)	FM	Thread Type	Code	Weight (kg)	L (mm)	L1 (mm)	s (mm)	e (mm)
20	½	10	IR	NPT	**727 914 356**	0.017	49	23	32	1.9
25	¾	10	IR	NPT	**727 914 357**	0.022	51	23	36	2.3
32	1	10	IR	NPT	**727 914 358**	0.039	54	23	46	2.9
40	1 ¼	10	IR	NPT	**727 914 359**	0.057	56	23	55	3.7
50	1 ½	10	IR	NPT	**727 914 360**	0.085	60	23	65	4.6
63	2	10	IR	NPT	**727 914 361**	0.122	62	23	80	5.8

Socket fusion transition fittings





PROGEF Standard Adaptor nipple
PN10 Metric NPT male

Model:

- Material: PP-H
- With fusion spigot metric and NPT tapered male thread
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	L (mm)	s (mm)	z (mm)
16	NPT	⅜	10	**727 914 555**	0.008	37	27	13
20	NPT	½	10	**727 914 556**	0.013	42	32	13
25	NPT	¾	10	**727 914 557**	0.015	46	36	13
32	NPT	1	10	**727 914 558**	0.026	52	46	12
40	NPT	1 ¼	10	**727 914 559**	0.041	56	55	14
50	NPT	1 ½	10	**727 914 560**	0.061	60	65	15
63	NPT	2	10	**727 914 561**	0.100	69	80	16





PROGEF Standard Adaptor socket
PN10 Metric NPT female

Model:

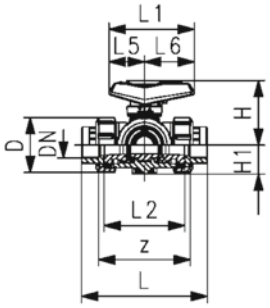
- Material: PP-H
- With fusion socket metric and NPT tapered female thread, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

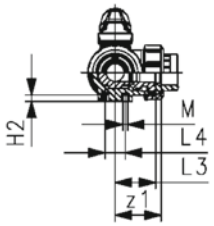
d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	L (mm)	s (mm)	z (mm)
20	NPT	½	10	**727 914 266**	0.018	35	32	4.5
25	NPT	¾	10	**727 914 267**	0.023	39	36	4.5
32	NPT	1	10	**727 914 268**	0.039	45	46	6.0
40	NPT	1 ¼	10	**727 914 269**	0.056	53	55	8.0
50	NPT	1 ½	10	**727 914 270**	0.095	54	65	8.0
63	NPT	2	10	**727 914 271**	0.145	62	80	9.0

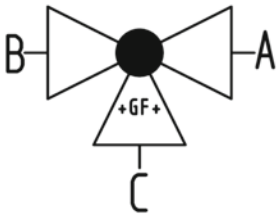
Ball valves type 543

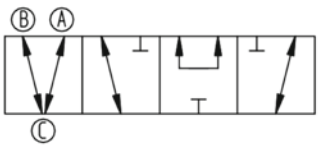












PROGEF Standard 3-Way ball valve type 543 Pro
Horizontal/T-port
With threaded sockets reinforced NPT

Model:

- Material: PP-H
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Lockable lever as standard (DN10-DN50)
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

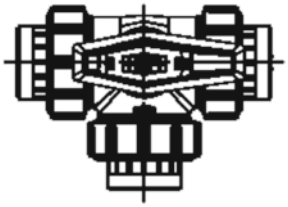
Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	NPT	⅜	10	140	**167 543 361**	0.160	**167 543 371**	0.160
20	15	NPT	½	10	200	**167 543 362**	0.164	**167 543 372**	0.164
25	20	NPT	¾	10	470	**167 543 363**	0.236	**167 543 373**	0.236
32	25	NPT	1	10	793	**167 543 364**	0.357	**167 543 374**	0.357
40	32	NPT	1 ¼	10	1290	**167 543 365**	0.609	**167 543 375**	0.609
50	40	NPT	1 ½	10	1910	**167 543 366**	0.898	**167 543 376**	0.898
63	50	NPT	2	10	3100	**167 543 367**	1.964	**167 543 377**	1.744

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
16	50	61	28	8	112	82	72	36	25	35	47	6	86	43
20	50	61	28	8	114	82	72	36	25	35	47	6	80	40
25	58	74	32	8	131	106	85	43	25	44	62	6	95	48
32	68	80	36	8	154	106	98	49	25	44	62	6	110	55
40	84	95	45	9	180	131	118	59	45	57	74	8	132	66
50	97	102	51	9	203	131	135	68	45	57	74	8	157	79
63	124	117	65	9	258	152	176	88	45	66	86	8	210	105





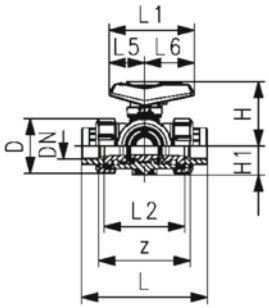
PROGEF Standard 3-Way ball valve type 543 Pro
Horizontal/L-port
With threaded sockets reinforced NPT

Model:

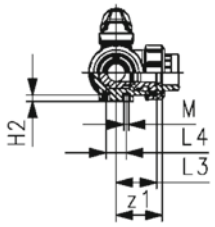
- Material: PP-H
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

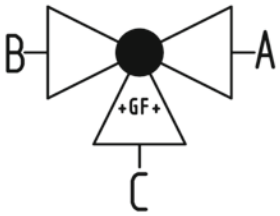
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	NPT	⅜	10	50	**167 543 161**	0.161	**167 543 171**	0.161
20	15	NPT	½	10	75	**167 543 162**	0.165	**167 543 172**	0.165
25	20	NPT	¾	10	150	**167 543 163**	0.237	**167 543 173**	0.237
32	25	NPT	1	10	280	**167 543 164**	0.361	**167 543 174**	0.361
40	32	NPT	1 ¼	10	480	**167 543 165**	0.616	**167 543 175**	0.616
50	40	NPT	1 ½	10	620	**167 543 166**	0.912	**167 543 176**	0.912
63	50	NPT	2	10	1230	**167 543 167**	1.773	**167 543 177**	1.773



d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
16	50	61	28	8	112	82	72	36	25	35	47	6	86	43
20	50	61	28	8	114	82	72	36	25	35	47	6	80	40
25	58	74	32	8	131	106	85	43	25	44	62	6	95	48
32	68	80	36	8	154	106	98	49	25	44	62	6	110	55
40	84	95	45	9	180	131	118	59	45	57	74	8	132	66
50	97	102	51	9	203	131	135	68	45	57	74	8	157	79
63	124	117	65	9	258	152	176	88	45	66	86	8	210	105





Ball valves type 546



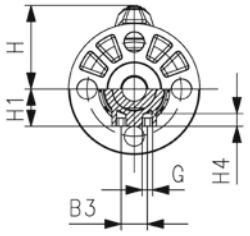
PROGEF Standard Ball Valve type 546 Pro
With backing flanges PP-St ANSI with PP-H

Model:

- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

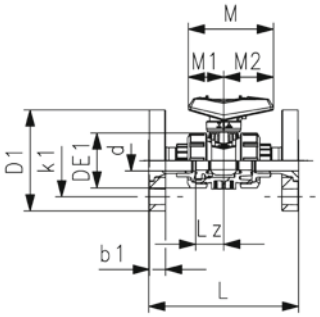
Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
75	65	2 ½	10	5000	**167 546 868**	1	5.098	**167 546 878**	1	5.864
90	80	3	10	7000	**167 546 869**	1	6.400	**167 546 879**	1	8.291
110	100	4	10	11000	**167 546 870**	1	10.000	**167 546 880**	1	10.314

b1 (mm)	B3 (mm)	DE1 (mm)	D1 (mm)	G (inch)	H (mm)	H1 (mm)	H4 (mm)	k1 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
18	70	166	166	M8	169	85	15	140	290	68	270	64	205	167
20	70	200	200	M8	180	105	15	152	310	71	270	64	205	180
20	120	238	238	M12	194	123	22	190	350	82	326	71	255	215



Ball valves pneumatic type 251



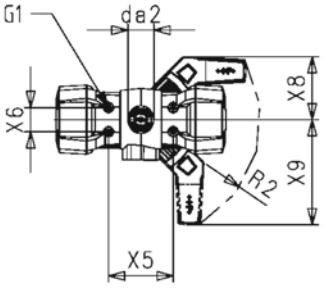
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
DA (Double acting)
With manual override
With threaded sockets reinforced NPT

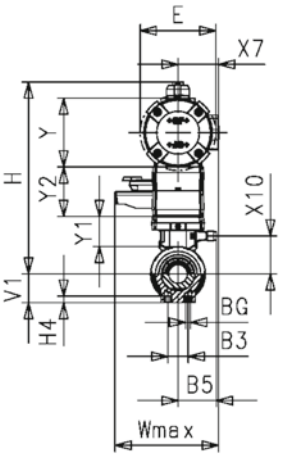
Model:

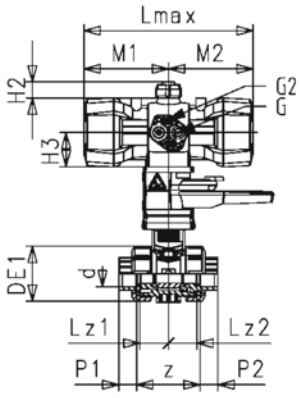
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with type 230 – 235 and 546 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve







d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	10	70	**199 251 542**	1	1.500	**199 251 552**	0	1.200
20	15	10	185	**199 251 543**	0	1.500	**199 251 553**	0	1.200
25	20	10	350	**199 251 544**	0	1.300	**199 251 554**	0	1.300
32	25	10	700	**199 251 545**	0	1.400	**199 251 555**	0	1.400
40	32	10	1000	**199 251 546**	0	2.500	**199 251 556**	0	2.500
50	40	10	1600	**199 251 547**	0	2.800	**199 251 557**	0	2.800
63	50	10	3100	**199 251 548**	1	3.700	**199 251 558**	0	3.700

d (mm)	Actuator	DE1 (mm)	V1 (mm)	H4 (mm)	M1 (mm)	M2 (mm)	G2 (mm)	G (mm)	H3 (mm)	Lz1 (mm)	Lz2 (mm)	Lmax (mm)	E (mm)	Y1 (mm)
16	PPA08	50	27	12	64	64	M5	M6	41	28	28	128	74	35
20	PPA08	50	27	12	64	64	M5	M6	41	28	28	128	74	35
25	PPA08	58	30	12	64	64	M5	M6	41	33	33	128	74	35
32	PPA08	68	36	12	64	64	M5	M6	41	36	36	128	74	35
40	PPA15	84	44	15	83	83	M5	M6	45	43	43	165	94	33
50	PPA15	97	51	15	83	83	M5	M6	45	45	45	165	94	33
63	PPA40	124	64	15	92	92	M5	M6	56	51	51	184	120	36

d (mm)	Y (mm)	Y2 (mm)	H (mm)	X10 (mm)	B3 (mm)	BG	Wmax (mm)	G1 (mm)	da2 (mm)	X6 (mm)	X5 (mm)	X8 (mm)	X9 (mm)	R2	X7 (mm)
16	75	60	215	35	25	M6	210	M5	33	30	80	78	132	R150	43
20	75	60	215	35	25	M6	210	M5	33	30	80	78	132	R150	43
25	75	60	219	35	25	M6	210	M5	33	30	80	78	132	R150	43
32	75	60	225	35	25	M6	210	M5	33	30	80	78	132	R150	43
40	88	60	244	33	45	M8	210	M5	33	30	80	78	132	R150	51
50	88	60	250	33	45	M8	210	M5	33	30	80	78	132	R150	51
63	111	60	288	36	45	M8	210	M5	33	30	80	78	132	R150	62

d (mm)	H2 (mm)	P1 (mm)	P2 (mm)	z (mm)
16	20	12	12	68
20	20	14	14	67
25	20	17	17	76
32	20	21	21	82
40	20	24	24	98
50	20	29	29	99
63	20	36	36	111



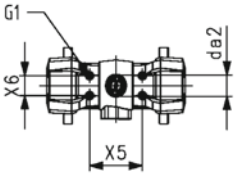
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FC (Fail safe to close)
With backing flanges PP-H ASME
Without manual override
5.6 bar control pressure

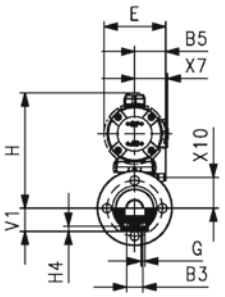
Model:

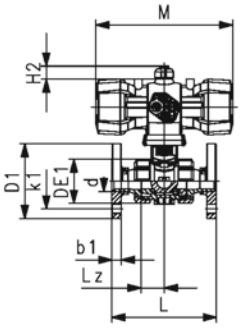
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
75	65	2 ½	10	5000	**199 251 729**	1	10.900	**199 251 739**	1	10.900
90	80	3	10	7000	**199 251 730**	1	13.600	**199 251 740**	1	13.600
110	100	4	10	11000	**199 251 731**	1	19.800	**199 281 741**	1	19.800

d (mm)	Actuator	b1 (mm)	B3 (mm)	B5 (mm)	D1 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	k1 (mm)	L (mm)
75	PPA80	18	70	28.5	166	33	166	142	M8	M5	277	20	15	140	290
90	PPA80	20	70	28.5	200	33	200	142	M8	M5	289	20	15	152	310
110	PPA80	20	120	28.5	238	33	238	142	M12	M5	324	20	22	190	350

d (mm)	Lz (mm)	M (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)
75	68	343	85	80	30	74	119
90	71	343	105	80	30	74	131
110	82	343	123	80	30	74	145



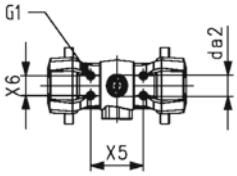
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FC (Fail safe to close)
With backing flanges PP-H ASME
Without manual override
5.6 bar control pressure

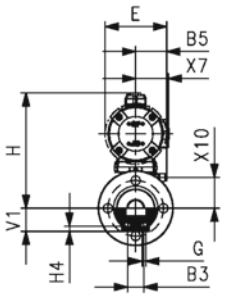
Model:

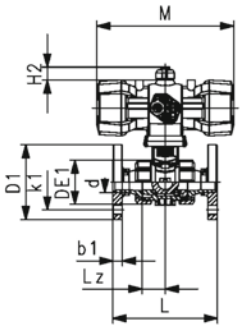
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
75	65	2 ½	10	5000	**199 251 729**	1	10.900	**199 251 739**	1	10.900
90	80	3	10	7000	**199 251 730**	1	13.600	**199 251 740**	1	13.600
110	100	4	10	11000	**199 251 731**	1	19.800	**199 281 741**	1	19.800

d (mm)	Actuator	b1 (mm)	B3 (mm)	B5 (mm)	D1 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	k1 (mm)	L (mm)
75	PPA80	18	70	28.5	166	33	166	142	M8	M5	277	20	15	140	290
90	PPA80	20	70	28.5	200	33	200	142	M8	M5	289	20	15	152	310
110	PPA80	20	120	28.5	238	33	238	142	M12	M5	324	20	22	190	350

d (mm)	Lz (mm)	M (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)
75	68	343	85	80	30	74	119
90	71	343	105	80	30	74	131
110	82	343	123	80	30	74	145



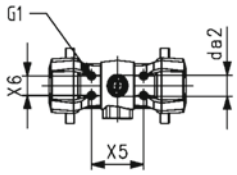
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FO (Fail safe to open)
With backing flanges PP-H ASME
Without manual override
5.6 bar control pressure

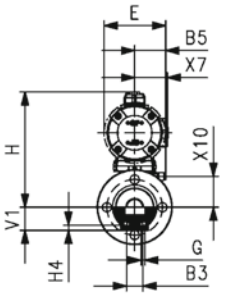
Model:

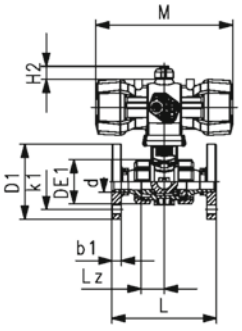
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible







d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
75	65	10	5000	**199 251 749**	1	10.900	**199 251 759**	1	10.900
90	80	10	7000	**199 251 750**	1	13.600	**199 251 760**	1	13.600
110	100	10	11000	**199 251 751**	1	19.800	**199 251 761**	1	19.800

d (mm)	Actuator	b1 (mm)	B3 (mm)	B5 (mm)	D1 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (inch)	G1 (inch)	H (mm)	H2 (mm)	H4 (mm)	k1 (mm)	L (mm)
75	PPA80	18	70	28.5	166	33	166	142	M8	M5	277	20	15	140	290
90	PPA80	20	70	28.5	200	33	200	142	M8	M5	289	20	15	152	310
110	PPA80	20	120	28.5	238	33	238	142	M12	M5	324	20	22	190	350

d (mm)	Lz (mm)	M (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)
75	68	343	85	80	30	74	119
90	71	343	105	80	30	74	131
110	82	343	123	80	30	74	145



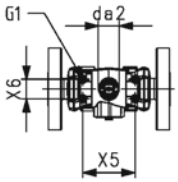
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
DA (Double Acting)
With backing flanges PP-St ASME with PP-H
Without manual override
5.6 bar control pressure

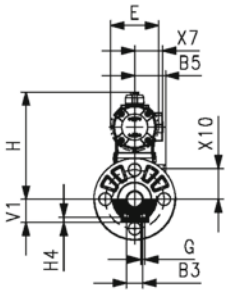
Model:

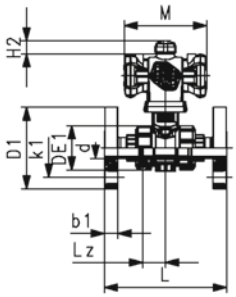
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve possible







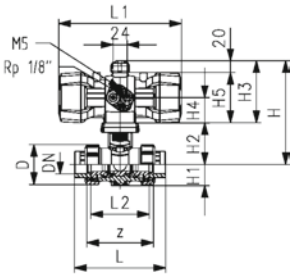
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
75	65	2 ½	10	5000	**199 251 769**	1	9.700	**199 251 779**	1	9.700
90	80	3	10	7000	**199 251 770**	1	13.000	**199 251 780**	1	13.000
110	100	4	10	11000	**199 251 771**	1	18.000	**199 251 781**	1	18.000

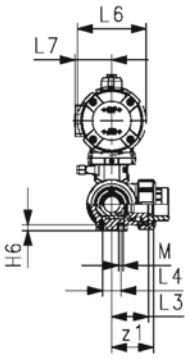
d (mm)	Actuator	b1 (mm)	B3 (mm)	B5 (mm)	da2 (mm)	D1 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	k1 (mm)	L (mm)
75	PPA40	18	70	28.5	33	166	166	142	M8	M5	277	20	15	140	290
90	PPA40	20	70	28.5	33	200	200	142	M8	M5	289	20	15	152	310
110	PPA80	20	120	28.5	33	238	238	142	M12	M5	324	20	22	190	350

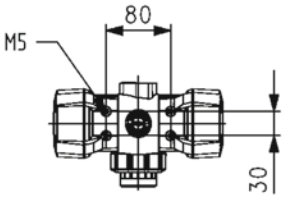
d (mm)	Lz (mm)	M (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)
75	68	184	85	80	30	74	119
90	71	184	105	80	30	74	131
110	82	261	123	80	30	74	145

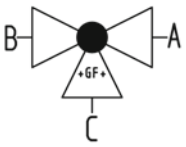
Ball valves pneumatic type 286

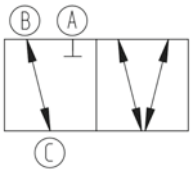












PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/T-port
Without manual override
With threaded sockets reinforced NPT

Model:

- Material: PP-H
- Actuator fails safe to the closed position FC
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

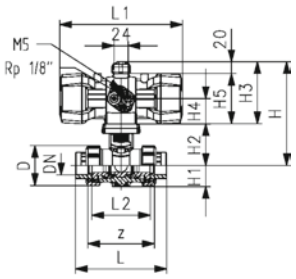
d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	NPT	⅜	10	140	**199 296 342**	1	1.031
20	15	NPT	½	10	200	**199 296 343**	1	1.035
25	20	NPT	¾	10	470	**199 296 344**	1	1.124
32	25	NPT	1	10	793	**199 296 345**	1	1.245
40	32	NPT	1 ¼	10	1290	**199 296 346**	1	2.210
50	40	NPT	1 ½	10	1910	**199 296 347**	1	2.499
63	50	NPT	2	10	3100	**199 296 348**	1	3.391

d (mm)	FKM Code	SP	Weight (kg)
16	**199 296 352**	1	1.031
20	**199 296 353**	1	1.035
25	**199 296 354**	1	1.124
32	**199 296 355**	1	1.245
40	**199 296 356**	1	2.210
50	**199 296 357**	1	2.499
63	**199 296 358**	1	3.391

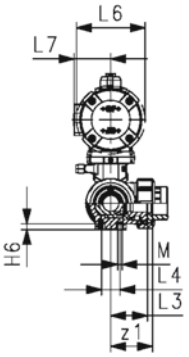
d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
16	PPA08	50	157	28	62	95	41	75	8	112	159	72	36	25	74
20	PPA08	50	157	28	62	95	41	75	8	114	159	72	36	25	74
25	PPA15	58	179	32	71	108	45	88	8	131	211	85	43	25	94
32	PPA15	68	179	36	71	108	45	88	8	154	211	98	49	25	94
40	PPA40	84	215	45	84	131	56	111	9	180	246	118	59	45	120
50	PPA40	97	215	51	84	131	56	111	9	203	246	135	68	45	120
63	PPA40	124	237	65	106	131	56	111	9	258	246	176	88	45	120

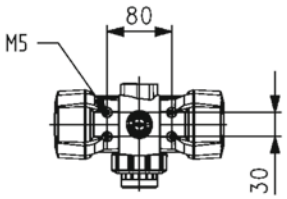
d (mm)	L7 (mm)	M	z (mm)	z1 (mm)
16	32	6	86	43
20	32	6	80	40
25	38	6	95	48

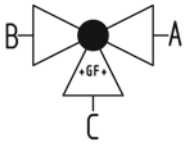
table continued on the next page

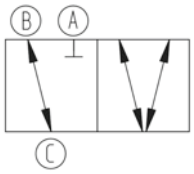


d	L7	M	z	z1
(mm)	(mm)		(mm)	(mm)
32	38	6	110	55
40	47	8	132	66
50	47	8	157	79
63	47	8	210	105











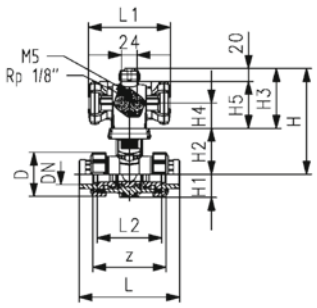
PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/L-port
DA (Double acting)
Without manual override
With threaded sockets reinforced NPT

Model:

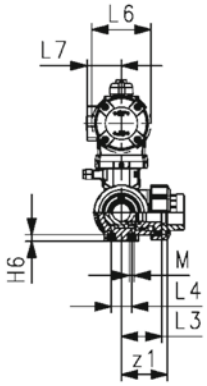
- Material: PP-H
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

Option:

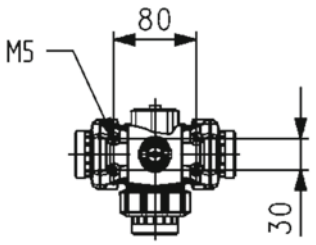
- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve



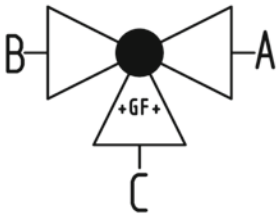
d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	NPT	⅜	10	50	**199 296 362**	1	0.841
20	15	NPT	½	10	75	**199 296 363**	1	0.845
25	20	NPT	¾	10	150	**199 296 364**	1	0.935
32	25	NPT	1	10	280	**199 296 365**	1	1.060
40	32	NPT	1 ¼	10	480	**199 296 366**	1	1.793
50	40	NPT	1 ½	10	620	**199 296 367**	1	2.089
63	50	NPT	2	10	1230	**199 296 368**	1	2.996



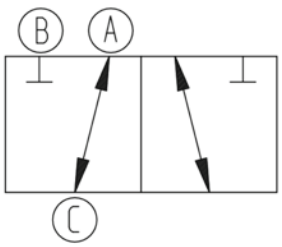
d (mm)	FKM Code	SP	Weight (kg)
16	**199 296 372**	1	0.841
20	**199 296 373**	1	0.845
25	**199 296 374**	1	0.935
32	**199 296 375**	1	1.060
40	**199 296 376**	1	1.793
50	**199 296 377**	1	2.089
63	**199 296 378**	1	2.996



d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
16	PPA08	50	157	28	62	95	41	75	8	112	128	72	36	25	74
20	PPA08	50	157	28	62	95	41	75	8	114	128	72	36	25	74
25	PPA08	58	166	32	71	95	41	75	8	131	128	85	43	25	74
32	PPA08	68	166	36	71	95	41	75	8	154	128	98	49	25	74
40	PPA15	84	192	45	84	108	45	88	9	180	165	118	59	45	94
50	PPA15	97	192	51	84	108	45	88	9	203	165	135	68	45	94
63	PPA40	124	237	65	106	131	56	111	9	258	184	176	88	45	120



d (mm)	L7 (mm)	M	z (mm)	z1 (mm)
16	32	6	86	43
20	32	6	80	40
25	32	6	95	48
32	32	6	110	55
40	38	8	132	66
50	38	8	157	79
63	47	8	210	105





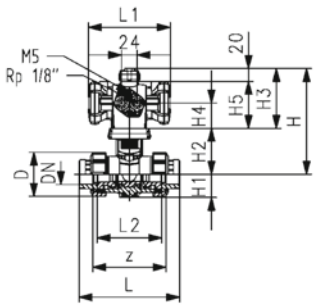
PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/T-port
DA (Double acting)
Without manual override
With threaded sockets reinforced NPT

Model:

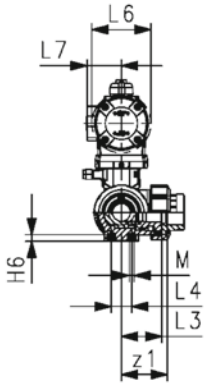
- Material: PP-H
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

Option:

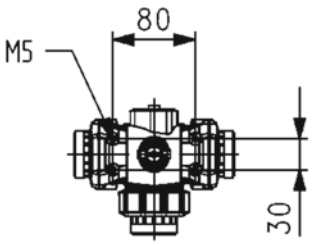
- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve



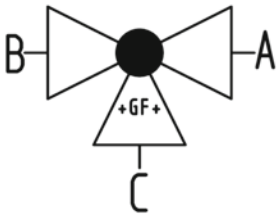
d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	NPT	⅜	10	140	**199 296 382**	1	0.840
20	15	NPT	½	10	200	**199 296 383**	1	0.844
25	20	NPT	¾	10	470	**199 296 384**	1	0.934
32	25	NPT	1	10	793	**199 296 385**	1	1.055
40	32	NPT	1 ¼	10	1290	**199 296 386**	1	1.786
50	40	NPT	1 ½	10	1910	**199 296 387**	1	2.075
63	50	NPT	2	10	3100	**199 296 388**	1	2.967



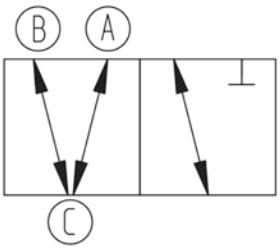
d (mm)	FKM Code	SP	Weight (kg)
16	**199 296 392**	1	0.840
20	**199 296 393**	1	0.844
25	**199 296 394**	1	0.934
32	**199 296 395**	1	1.055
40	**199 296 396**	1	1.786
50	**199 296 397**	1	2.075
63	**199 296 398**	1	2.967



d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
16	PPA08	50	157	28	62	95	41	75	8	112	128	72	36	25	74
20	PPA08	50	157	28	62	95	41	75	8	114	128	72	36	25	74
25	PPA08	58	166	32	71	95	41	75	8	131	128	85	43	25	74
32	PPA08	68	166	36	71	95	41	75	8	154	128	98	49	25	74
40	PPA15	84	192	45	84	108	45	88	9	180	165	118	59	45	94
50	PPA15	97	192	51	84	108	45	88	9	203	165	135	68	45	94
63	PPA15	124	237	65	106	131	56	111	9	258	184	176	88	45	120



d (mm)	L7 (mm)	M	z (mm)	z1 (mm)
16	32	6	86	43
20	32	6	80	40
25	32	6	95	48
32	32	6	110	55
40	38	8	132	66
50	38	8	157	79
63	47	8	210	105





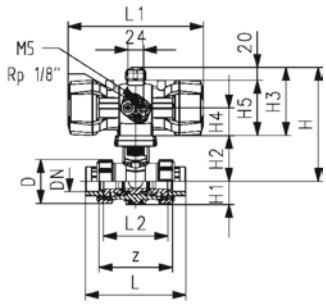
PROGEF Standard 3-Way ball valve type 543 Pro P
Horizontal/L-port
Without manual override
With threaded sockets reinforced NPT

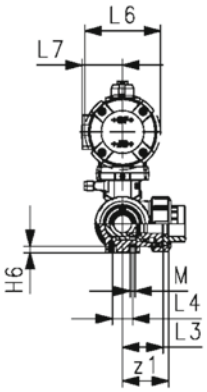
Model:

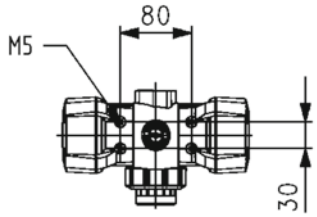
- Material: PP-H
- Actuator fails safe to the closed position FC
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

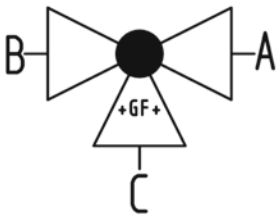
Option:

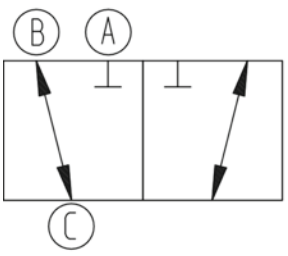
- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve











d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	NPT	⅜	10	50	**199 296 322**	1	1.031
20	15	NPT	½	10	75	**199 296 323**	1	1.035
25	20	NPT	¾	10	150	**199 296 324**	1	1.125
32	25	NPT	1	10	280	**199 296 325**	1	1.250
40	32	NPT	1 ¼	10	480	**199 296 326**	1	2.217
50	40	NPT	1 ½	10	620	**199 296 327**	1	2.513
63	50	NPT	2	10	1230	**199 296 328**	1	3.420

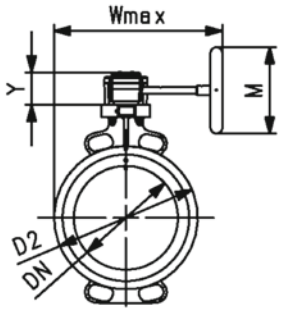
d (mm)	FKM Code	SP	Weight (kg)
16	**199 296 332**	1	1.031
20	**199 296 333**	1	1.035
25	**199 296 334**	1	1.125
32	**199 296 335**	1	1.250
40	**199 296 336**	1	2.217
50	**199 296 337**	1	2.513
63	**199 296 338**	1	3.420

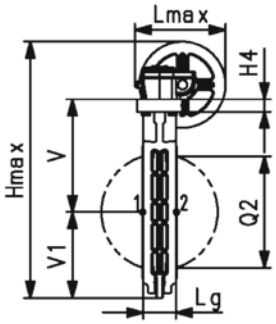
d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
16	PPA08	50	157	28	62	95	41	75	8	112	159	72	36	25	74
20	PPA08	50	157	28	62	95	41	75	8	114	159	72	36	25	74
25	PPA15	58	179	32	71	108	45	88	8	131	211	85	43	25	94
32	PPA15	68	179	36	71	108	45	88	8	154	211	98	49	25	94
40	PPA40	84	215	45	84	131	56	111	9	180	246	118	59	45	120
50	PPA40	97	215	51	84	131	56	111	9	203	246	135	68	45	120
63	PPA40	124	237	65	106	131	56	111	9	258	246	176	88	45	120

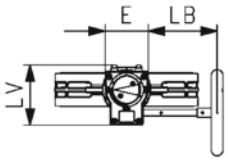
d (mm)	L7 (mm)	M	z (mm)	z1 (mm)
16	32	6	86	43
20	32	6	80	40
25	38	6	95	48
32	38	6	110	55
40	47	8	132	66
50	47	8	157	79
63	47	8	210	105

Butterfly valves type 565









Wafer-style intermediate installation butterfly valve type 565 manual PVDF/PA-GF
With gear box
Wafer style metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

Option:

- Individual configuration of the valve possible
- Hand (lockable hand lever), pneumatic or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	50	2	16	1445	**199 565 200**	1	3.0	**199 565 220**	1	3.1
75	65	2 ½	16	2530	**199 565 201**	1	3.2	**199 565 221**	1	3.3
90	80	3	16	4020	**199 565 202**	1	3.4	**199 565 222**	1	3.5
110	100	4	16	5850	**199 565 203**	1	4.2	**199 565 223**	1	4.3
140	125	5	16	11900	**199 565 204**	1	4.7	**199 565 224**	1	5.0
160	150	6	16	18050	**199 565 205**	1	5.5	**199 565 225**	1	5.8
225	200	8	10	43667	**199 565 206**	1	6.7	**199 565 226**	1	7.2
280	250	10	10	62333	**199 565 207**	1	12.7	**199 565 227**	1	13.4
315	300	12	6	94500	**199 565 208**	1	16.5	**199 565 228**	1	17.6

d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	LB (mm)	LV (mm)	M (mm)	Y (mm)
63	100.0	238.5	303.0	169.0	23	133.5	63.0	43	80	128.0	112.5	160	61.5
75	121.0	246.0	329.0	169.0	23	140.0	82.0	46	80	128.0	112.5	160	61.5
90	138.0	248.5	341.5	169.0	23	146.0	89.0	46	80	128.0	112.5	160	61.5
110	158.5	258.5	377.5	169.0	23	166.5	104.0	52	80	128.0	112.5	160	61.5
140	187.0	272.0	405.0	169.0	23	180.0	118.0	56	80	128.0	112.5	160	61.5
160	213.0	285.5	426.5	169.0	23	189.0	130.5	56	80	128.0	112.5	160	61.5
225	267.0	312.5	475.5	169.0	23	209.5	159.0	60	80	128.0	112.5	160	61.5
280	325.5	360.5	603.0	212.5	23	262.5	195.5	68	100	135.5	130.0	200	68.5
315	380.0	387.5	659.5	212.5	23	284.5	230.5	78	100	135.5	130.0	200	68.5

d (mm)	Q2 (mm)
63	28.5
75	44.0
90	63.5
110	84.0
140	110.5
160	137.5
225	190.5
280	239.0
315	285.5



Wafer-style, intermediate installation butterfly valve type 565 PVDF/PA-GF
Bare shaft
Flange standard metric/ANSI/BS/JIS Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

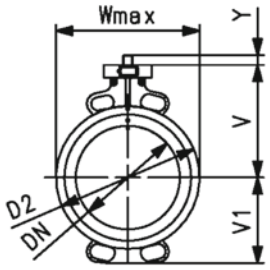
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

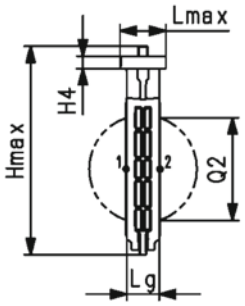
Option:

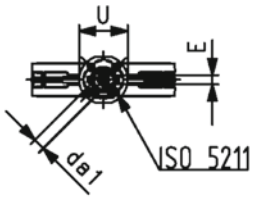
- Individual configuration of the valve possible
- Hand (lockable), pneumatic or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Acc.to ISO 5211	EPDM Code	SP	Weight (kg)
63	50	2	16	1445	F07	**199 565 100**	1	0.9
75	65	2 ½	16	2530	F07	**199 565 101**	1	1.1
90	80	3	16	4020	F07	**199 565 102**	1	1.3
110	100	4	16	5850	F07	**199 565 103**	1	2.0
140	125	5	16	11900	F07	**199 565 104**	1	2.6
160	150	6	16	18050	F07	**199 565 105**	1	3.7
225	200	8	10	43667	F07	**199 565 106**	1	4.7
280	250	10	10	62333	F10	**199 565 107**	1	8.8
315	300	12	6	94500	F10	**199 565 108**	1	12.6

d (mm)	FKM Code	SP	Weight (kg)
63	**199 565 120**	1	1.0
75	**199 565 121**	1	1.2
90	**199 565 122**	1	1.4
110	**199 565 123**	1	2.2
140	**199 565 124**	1	2.9
160	**199 565 125**	1	3.8
225	**199 565 126**	1	5.2
280	**199 565 127**	1	9.5
315	**199 565 128**	1	13.7

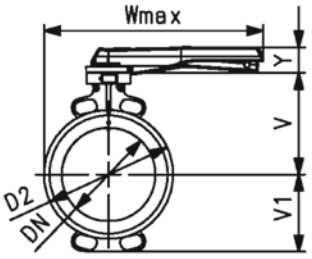
d (mm)	D2 (mm)	Wmax (mm)	Lmax (mm)	Hmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	da1 (mm)	E (mm)	U (mm)	Y (mm)	Q2 (mm)
63	100.0	118.5	85.5	222.5	23.0	133.5	63.0	43.0	14.1	11.0	90.0	27.0	28.5
75	121.0	132.5	85.5	248.5	23.0	140.0	82.0	46.0	14.1	11.0	90.0	27.0	44.0
90	138.0	138.0	85.5	261.0	23.0	146.0	89.0	46.0	14.1	11.0	90.0	27.0	63.5
110	158.5	158.5	85.5	286.0	23.0	166.5	104.0	52.0	18.1	14.0	90.0	16.0	84.0
140	187.0	187.0	85.5	313.5	23.0	180.0	118.0	56.0	18.1	14.0	90.0	16.0	110.5
160	213.0	213.0	85.5	337.5	23.0	189.0	130.5	56.0	22.2	17.0	90.0	19.0	137.5
225	267.0	267.0	85.5	387.0	23.0	209.5	159.0	60.0	22.2	17.0	90.0	18.5	190.5
280	325.5	325.5	125.0	498.5	23.0	262.5	195.5	68.0	28.2	22.0	125.0	40.5	239.0
315	380.0	380.0	125.0	555.0	23.0	284.5	230.5	78.0	28.2	22.0	125.0	40.5	285.5



Wafer-style, intermediate installation butterfly valve type 565 PVDF/PA-GF
With hand lever
Flange standard metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Lockable ergonmic lever
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

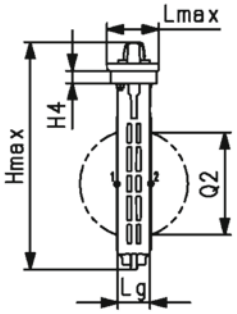


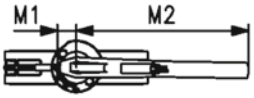
Option:

- Individual configuration of the valve possible
- Pneumatic or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com





d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	16	1445	**199 565 000**	1	1.3	**199 565 020**	1	1.4
75	2 ½	65	16	2530	**199 565 001**	1	1.5	**199 565 021**	1	1.6
90	3	80	16	4020	**199 565 002**	1	1.7	**199 565 022**	1	1.8
110	4	100	16	5850	**199 565 003**	1	2.5	**199 565 023**	1	2.7
140	5	125	16	11900	**199 565 004**	1	3.1	**199 565 024**	1	3.3
160	6	150	16	18050	**199 565 005**	1	4.0	**199 565 025**	1	4.3
225	8	200	10	43667	**199 565 006**	1	5.3	**199 565 026**	1	5.7

d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	M1 (mm)	M2 (mm)	Y (mm)	Q2 (mm)
63	100.0	264.0	249.5	96.0	23.0	133.5	63.0	43.0	35.5	204.5	53.0	28.5
75	121.0	271.0	275.5	96.0	23.0	140.0	82.0	46.0	35.5	204.5	53.0	44.0
90	138.0	273.5	288.0	96.0	23.0	146.0	89.0	46.0	35.5	204.5	53.0	63.5
110	158.5	334.0	324.0	96.0	23.0	166.5	104.0	52.0	35.5	254.5	53.0	84.0
140	187.0	348.0	351.0	96.0	23.0	180.0	118.0	56.0	35.5	254.5	53.0	110.5
160	213.0	426.0	372.5	96.0	23.0	189.0	130.5	56.0	35.5	319.5	53.0	137.5
225	267.0	453.0	422.0	96.0	23.0	209.5	159.0	60.0	35.5	319.5	53.0	190.5

Butterfly valves type 567



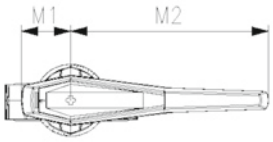
PROGEF Standard Wafer-style intermediate installation butterfly valve type 567
With hand lever
Flange standard metric/ANSI/BS/JIS

Model:

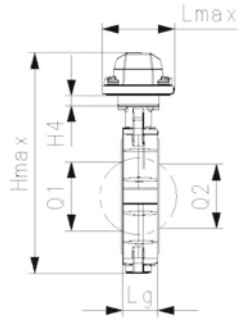
- Material: PP-H, DN350-DN600 material PP-R
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

Note:

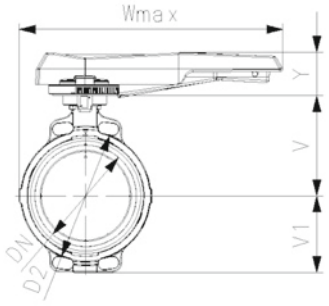
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**167 567 002**	1.170	**167 567 022**	1.627
75	2 ½	65	10	1500	**167 567 003**	1.254	**167 567 023**	1.061
90	3	80	10	2400	**167 567 004**	1.384	**167 567 024**	1.404
110	4	100	10	3800	**167 567 005**	1.961	**167 567 025**	1.998
140	5	125	10	8600	**167 567 006**	2.367	**167 567 026**	2.429
160	6	150	10	11400	**167 567 007**	3.741	**167 567 027**	3.246
225	8	200	10	19900	**167 567 008**	5.545	**167 567 028**	5.609
280	10	250	6	34000	**167 567 009**	11.061	**167 567 029**	11.841
315	12	300	6	50000	**167 567 010**	16.548	**167 567 030**	13.245



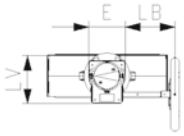
d (mm)	PTFE Code	Weight (kg)
63	**167 567 202**	1.170
75	**167 567 203**	1.254
90	**167 567 204**	1.384
110	**167 567 205**	1.961
140	**167 567 206**	2.367
160	**167 567 207**	3.741
225	**167 567 208**	5.545
280	**167 567 209**	11.061
315	**167 567 210**	16.548



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	M1 (mm)	M2 (mm)
63	278.9	115.2	269.0	90	133.3	23	78.8	45	104	40		66.8	64.7	205.5
75	291.8	115.2	281.8	90	139.9	23	85.1	46	115	54	35	66.8	64.7	205.5
90	303.6	115.2	273.9	90	145.6	23	91.2	49	131	67	50	66.8	64.7	205.5
110	342.2	115.2	336.0	90	166.4	23	105.7	56	161	88	74	70.1	64.9	255.5
140	368.9	115.2	349.0	90	180.0	23	118.8	64	187	113	97	70.1	64.9	255.5
160	390.0	115.2	363.0	90	189.0	23	130.9	72	215	139	123	70.1	64.9	255.5
225	455.1	149.4	543.0	90	210.5	23	158.3	73	267	178	169	86.3	103.6	409.5
280	555.0	149.4	574.0	125	262.6	23	206.1	113	329	210	207	86.3	103.6	409.5
315	599.4	149.4	599.7	125	284.3	23	228.8	113	379	256	253	86.3	103.6	409.5







PROGEF Standard Wafer-style intermediate installation butterfly valve type 567
With gear box
Flange standard metric/ANSI/BS/JIS

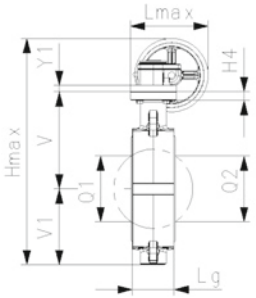
Model:

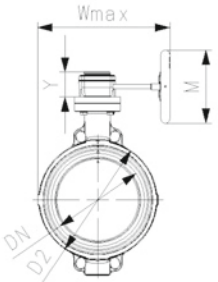
- Material: PP-H, DN350-DN600 material PP-R
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

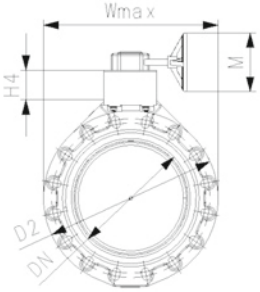
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**167 567 042**	3.003	**167 567 062**	3.007
75	2 ½	65	10	1500	**167 567 043**	2.781	**167 567 063**	3.099
90	3	80	10	2400	**167 567 044**	3.301	**167 567 064**	3.229
110	4	100	10	3800	**167 567 045**	3.736	**167 567 065**	3.741
140	5	125	10	8600	**167 567 046**	2.770	**167 567 066**	4.243
160	6	150	10	11400	**167 567 047**	4.969	**167 567 067**	5.038
225	8	200	10	19900	**167 567 048**	8.538	**167 567 068**	6.539
280	10	250	8	34000	**167 567 049**	12.884	**167 567 069**	13.074
315	12	300	8	50000	**167 567 050**	16.442	**167 567 070**	16.066
350	14	350	6	90000	**167 567 051**	40.000	**167 567 071**	40.000
400	16	400	6	115000	**167 567 052**	50.000	**167 567 072**	50.000
450	18	450	5	155000	**167 567 053**	70.000	**167 567 073**	70.000
500	20	500	4	204000	**167 567 054**	90.000	**167 567 074**	90.000
630	24	600	4	265000	**167 567 055**	125.000	**167 567 075**	125.000



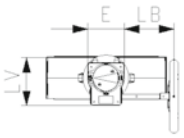




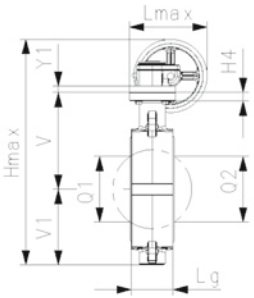
d (mm)	PTFE Code	Weight (kg)
63	**167 567 242**	3.003
75	**167 567 243**	2.781
90	**167 567 244**	3.301
110	**167 567 245**	3.736
140	**167 567 246**	2.770
160	**167 567 247**	4.969
225	**167 567 248**	8.538
280	**167 567 249**	12.884
315	**167 567 250**	16.442
350	**167 567 251**	40.000
400	**167 567 252**	50.000
450	**167 567 253**	70.000
500	**167 567 254**	90.000
630	**167 567 255**	125.000

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y1 (mm)	M (mm)	Y (mm)
63	319.4	169.1	240.2	90	133.3	23	78.8	45	104	40			160	61.2
75	332.3	169.1	247.3	90	139.9	23	85.1	46	115	54	35		160	61.2
90	344.1	169.1	249.4	90	145.6	23	91.2	49	131	67	50		160	61.2
110	379.4	169.1	261.5	90	166.4	23	105.7	56	161	88	74		160	61.2
140	406.1	169.1	274.5	90	180.0	23	118.8	64	187	113	97		160	61.2
160	427.2	169.1	288.5	90	189.0	23	130.9	72	215	139	123		160	61.2
225	476.1	169.1	267.0	90	210.5	23	158.3	73	267	178	169		160	61.2
280	613.0	212.6	329.0	125	262.6	23	206.1	113	329	210	207	17	200	68.4
315	657.4	212.6	380.4	125	284.3	23	228.8	113	379	256	253	17	200	68.4
350	805.0	217.0	535.0	180	410.0	100	268.0	129	535	325	305		200	62.0

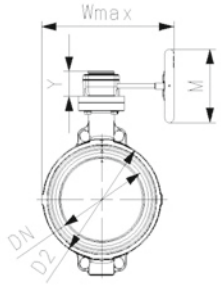
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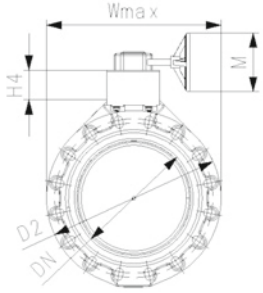


d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y1 (mm)	M (mm)	Y (mm)
400	865.0	245.0	595.0	180	435.0	100	300.0	169	595	353	350		200	62.0
450	992.0	275.0	635.0	220	520.0	130	320.0	179	635	393	390		250	62.0
500	1083.0	321.0	700.0	220	550.0	130	350.0	190	700	444	440		300	70.0
630	1216.0	331.0	813.0	220	610.0	130	420.0	209	813	530	527		300	70.0



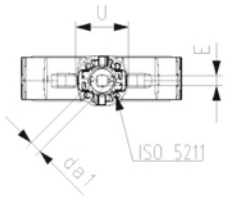
d (mm)	E (mm)	LV (mm)	LB (mm)
63	80	112.3	129.5
75	80	112.3	129.5
90	80	112.3	129.5
110	80	112.3	129.5
140	80	112.3	129.5
160	80	112.3	129.5
225	80	112.3	129.5
280	100	130.0	134.0
315	100	130.0	134.0
350	130	146.0	122.0
400	130	174.0	122.0
450	130	185.0	203.0
500	174	201.0	151.0
630	74	210.0	151.0

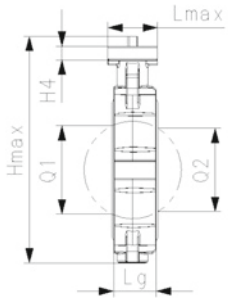


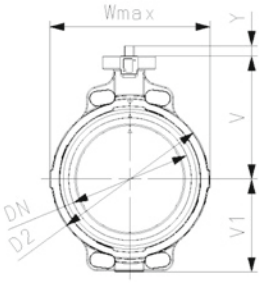


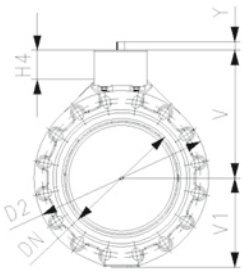












PROGEF Standard Wafer-style intermediate installation butterfly valve type 567
Bare shaft
Flange standard metric/ANSI/BS/JIS

Model:

- Material: PP-H, DN350-DN600 material PP-R
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Interface F07 for the dimensions DN50-200 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211
- Interface F12 for the dimensions DN350-400 according to DIN/ISO 5211
- Interface F14 for the dimensions DN450-600 according to DIN/ISO 5211

Note:

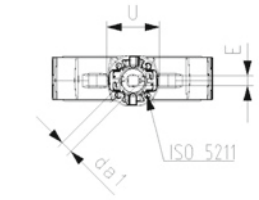
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

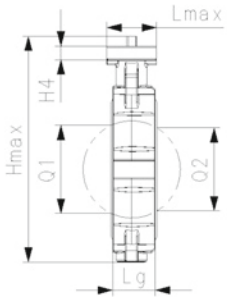
d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**167 567 802**	0.699	**167 567 822**	0.721
75	2 ½	65	10	1500	**167 567 803**	0.793	**167 567 823**	0.804
90	3	80	10	2400	**167 567 804**	0.913	**167 567 824**	0.939
110	4	100	10	3800	**167 567 805**	1.409	**167 567 825**	1.450
140	5	125	10	8600	**167 567 806**	1.831	**167 567 826**	1.929
160	6	150	10	11400	**167 567 807**	2.641	**167 567 827**	2.713
225	8	200	10	19900	**167 567 808**	4.110	**167 567 828**	4.186
280	10	250	8	34000	**167 567 809**	9.412	**167 567 829**	10.251
315	12	300	8	50000	**167 567 810**	13.054	**167 567 830**	13.251
355	14	350	6	90000	**167 567 811**	35.000	**167 567 831**	35.000
400	16	400	6	115000	**167 567 812**	45.000	**167 567 832**	45.000
450	18	450	5	155000	**167 567 813**	60.000	**167 567 833**	60.000
500	20	500	4	204000	**167 567 814**	75.000	**167 567 834**	75.000
630	24	600	4	265000	**167 567 815**	110.000	**167 567 835**	110.000

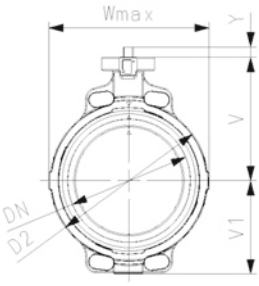
d (mm)	Size (inch)	DN (mm)	PTFE Code	Weight (kg)
63	2	50	**167 567 840**	0.699
75	2 ½	65	**167 567 841**	0.793
90	3	80	**167 567 842**	0.913
110	4	100	**167 567 843**	1.409
140	5	125	**167 567 844**	1.831
160	6	150	**167 567 845**	2.641
225	8	200	**167 567 846**	4.110
280	10	250	**167 567 847**	9.412
315	12	300	**167 567 848**	13.054
355	14	350	**167 567 849**	35.000
400	16	400	**167 567 850**	45.000
450	18	450	**167 567 851**	60.000
500	20	500	**167 567 852**	75.000
630	24	600	**167 567 853**	110.000

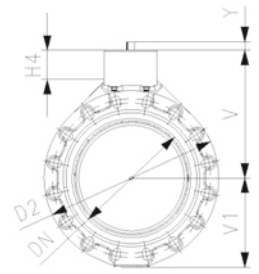
d (mm)	Size (inch)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)
63	2	50	238.3	84.8	118.4	90	133.3	23	78.8	45	104	40		26.2
75	2 ½	65	251.2	84.8	132.5	90	139.9	23	85.1	46	115	54	35	26.2
90	3	80	263.0	84.8	136.8	90	145.6	23	91.2	49	131	67	50	26.2
110	4	100	287.5	84.8	161.0	90	166.4	23	105.7	56	161	88	74	15.4
140	5	125	314.2	84.8	187.0	90	180.0	23	118.8	64	187	113	97	15.4
160	6	150	338.3	84.8	215.0	90	189.0	23	130.9	72	215	139	123	18.4
225	8	200	387.2	84.8	267.0	90	210.5	23	158.3	73	267	178	169	18.4
280	10	250	508.9	125.0	329.0	125	262.6	23	206.1	113	329	210	207	40.2
315	12	300	553.3	125.0	380.4	125	284.3	23	228.8	113	379	256	253	40.2
355	14	350	709.0	180.0	535.0	180	410.0	100	268.0	129	535	325	305	31.0

table continued on the next page









d (mm)	Size (inch)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)
400	16	400	766.0	180.0	595.0	180	435.0	100	300.0	169	595	353	350	31.0
450	18	450	875.0	220.0	635.0	220	520.0	130	320.0	179	635	393	390	35.0
500	20	500	935.0	220.0	700.0	220	550.0	130	350.0	190	700	444	440	35.0
630	24	600	1065.0	220.0	813.0	220	610.0	130	420.0	209	813	530	527	35.0

d (mm)	Size (inch)	DN (mm)	E (mm)	da1 (mm)
63	2	50	11	13.5
75	2 ½	65	11	13.5
90	3	80	11	13.5
110	4	100	14	17.3
140	5	125	14	17.3
160	6	150	17	21.1
225	8	200	17	21.1
280	10	250	22	27.0
315	12	300	22	27.0
355	14	350	22	28.5
400	16	400	27	36.0
450	18	450	27	36.0
500	20	500	27	36.0
630	24	600	36	45.0

Butterfly valves type 578



PROGEF Standard Lug-style end installation butterfly valve type 578
Bare Shaft
Flange standard ANSI/ASME

Model:

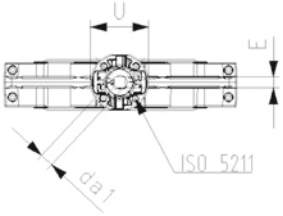
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension ANSI/ASME B 16.5 Class 150
- Interface F07 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211

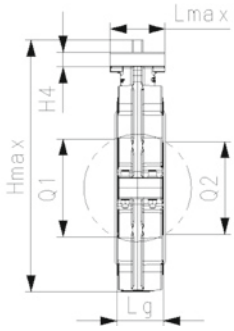
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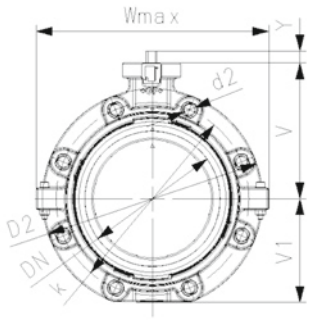
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**167 578 902**	1.299	**167 578 922**	1.299
75	2 ½	65	10	1500	**167 578 903**	1.456	**167 578 923**	1.456
90	3	80	10	2400	**167 578 904**	1.701	**167 578 924**	1.701
110	4	100	10	3800	**167 578 905**	2.606	**167 578 925**	2.606
140	5	125	10	8600	**167 578 906**	4.120	**167 578 926**	4.120
160	6	150	10	11400	**167 578 907**	5.881	**167 578 927**	5.881
225	8	200	10	19900	**167 578 908**	7.125	**167 578 928**	7.125
280	10	250	8	34000	**167 578 909**	17.880	**167 578 929**	17.880
315	12	300	8	50000	**167 578 910**	24.416	**167 578 930**	24.416

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)
63	238.3	84.8	159.5	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	251.2	84.8	166.1	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	263.0	84.8	171.8	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	288.9	84.8	181.4	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	318.1	84.8	195.4	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9
160	341.9	84.8	207.4	90	189.0	23	134.5	71.5	284	139	123	UNC 3/4	241.3
225	390.4	84.8	228.9	90	210.5	23	161.5	72.5	341	178	169	UNC 3/4	298.5
280	511.5	125.0	304.6	125	264.4	23	206.9	113.2	412	210	207	UNC 7/8	362.0
315	560.9	125.0	325.4	125	285.2	23	235.5	114.6	482	256	253	UNC 7/8	431.8

d (mm)	da1 (mm)
63	13.5
75	13.5
90	13.5
110	17.3
140	17.3
160	21.1
225	21.1
280	27.0
315	27.0



PROGEF Standard Lug-style end installation butterfly valve type 578
With hand lever
Flange standard ANSI/ASME

Model:

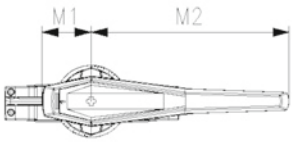
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension ANSI/ASME B 16.5 Class 150

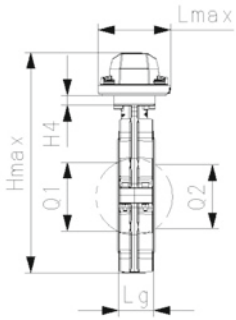
Option:

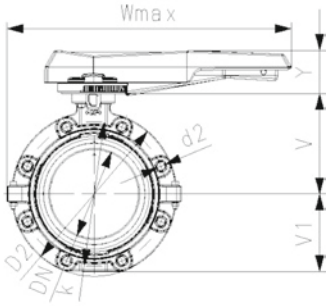
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	740	**167 578 102**	1	1.800	**167 578 122**	1	1.800
75	2 ½	65	10	1500	**167 578 103**	1	1.895	**167 578 123**	1	1.895
90	3	80	10	2400	**167 578 104**	1	2.251	**167 578 124**	1	2.251
110	4	100	10	3800	**167 578 105**	1	3.146	**167 578 125**	1	3.146
140	5	125	10	8600	**167 578 106**	1	4.660	**167 578 126**	1	4.660
160	6	150	10	11400	**167 578 107**	1	6.430	**167 578 127**	1	6.430
225	8	200	10	19900	**167 578 108**	1	8.625	**167 578 128**	1	8.625
280	10	250	6	34000	**167 578 109**	1	19.528	**167 578 129**	1	19.528
315	12	300	6	50000	**167 578 110**	1	26.106	**167 578 130**	1	26.106

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	M1 (mm)
63	278.9	115.2	287.8	90	133.3	23	78.8	44.7	160	40		UNC 5/8	63.7
75	291.8	115.2	296.3	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	63.7
90	303.6	115.2	310.3	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	63.7
110	343.6	115.2	375.2	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	63.7
140	372.8	115.2	391.2	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	63.7
160	393.6	115.2	395.2	90	189.0	23	134.5	71.5	284	139	123	UNC 3/4	63.7
225	458.1	149.4	588.1	90	210.5	23	161.5	72.5	341	178	169	UNC 3/4	101.7
280	557.6	149.4	628.1	125	264.4	23	206.9	113.2	412	210	207	UNC 7/8	101.7
315	607.0	149.4	663.1	125	285.2	23	235.5	114.6	482	256	253	UNC 7/8	101.7

d (mm)	M2 (mm)
63	205.3
75	205.3
90	205.3
110	255.2
140	255.2
160	255.2
225	408.1
280	408.1
315	408.1

Butterfly valves pneumatic type 244



PROGEF Standard Lug-style end installation butterfly valve type 244
With pneumatic actuator - fail safe to close (FC)
Without manual override
Flange standard ANSI/ASME

Model:

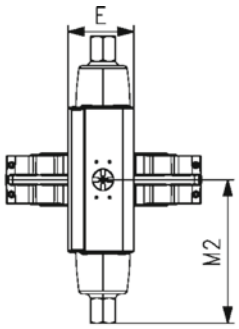
- Housing material: PP-GF30 with SS316 lug-inserts
- Control range 90°<)
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension ANSI/ASME B 16.5 Class 150

Option:

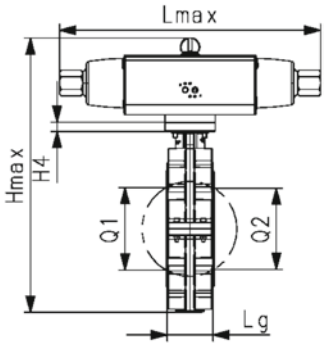
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

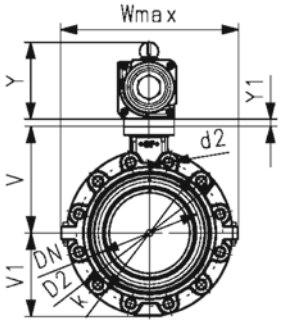
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**199 244 282**	3.499	**199 244 302**	3.499
75	2 ½	65	10	1500	**199 244 283**	3.656	**199 244 303**	3.656
90	3	80	10	2400	**199 244 284**	4.692	**199 244 304**	4.692
110	4	100	10	3800	**199 244 285**	6.406	**199 244 305**	6.406
140	5	125	10	8600	**199 244 286**	9.222	**199 244 306**	9.222
160	6	150	10	11400	**199 244 287**	12.902	**199 244 307**	12.902
225	8	200	10	19900	**199 244 288**	16.691	**199 244 308**	16.691
280	10	250	8	34000	**199 244 289**	33.880	**199 244 309**	33.880
315	12	300	8	50000	**199 244 290**	43.985	**199 244 310**	43.985



d (mm)	Size (inch)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2
63	2	328.1	274.4	165	90	133.3	70	78.8	44.7	160	40		UNC 5/8
75	2 ½	341.0	274.4	182	90	139.9	70	85.1	45.7	180	54	35	UNC 5/8
90	3	365.7	325.2	210	90	145.6	78	91.2	48.7	195	67	50	UNC 5/8
110	4	388.3	359.6	240	90	166.0	86	107.5	55.6	226	88	74	UNC 5/8
140	5	452.2	418.0	272	90	180.0	96	122.7	63.5	258	113	97	UNC 3/4
160	6	476.6	434.0	280	90	189.0	106	134.5	71.5	284	139	123	UNC 3/4
225	8	532.0	498.4	360	90	210.5	118	161.5	72.5	341	178	169	UNC 3/4
280	10	679.5	646.0	440	125	264.4	148	206.9	113.2	412	210	207	UNC 7/8
315	12	749.0	681.0	510	125	285.2	157	235.5	114.6	482	256	253	UNC 7/8



d (mm)	Size (inch)	k (mm)	Y (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	2	120.7	98.2	70.4	15.0	137.2
75	2 ½	139.7	98.2	70.4	15.0	137.2
90	3	152.4	111.1	83.3	15.0	162.6
110	4	190.5	114.8	87.0		179.8
140	5	215.9	149.5	107.5		209.0
160	6	241.3	153.1	111.1		217.0
225	8	298.5	160.0	118.0		249.2
280	10	362.0	190.0	148.0	18.2	323.0
315	12	431.8	210.1	168.0	18.2	340.5



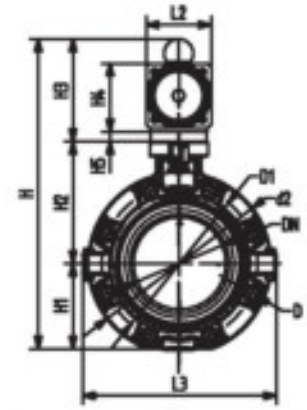
PROGEF Standard Lug-style, end installation butterfly valve type 244
With pneumatic actuator - fail safe to open (FO)
Without manual override
Flange standard ANSI/ASME

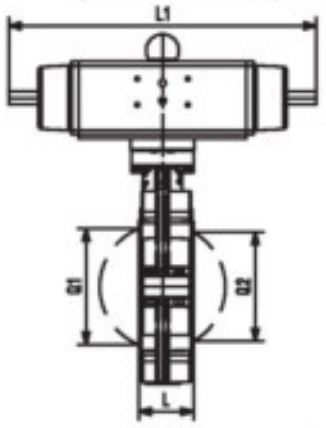
Model:

- Housing material: PP-GF30 with SS316 lug-inserts
- Control range 90°<)
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension ANSI/ASME B 16.5 Class 150

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)





d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	FKM Code
63	2	50	10	740	**199 244 322**	**199 244 342**
75	2 ½	65	10	1500	**199 244 323**	**199 244 343**
90	3	80	10	2400	**199 244 324**	**199 244 344**
110	4	100	10	3800	**199 244 325**	**199 244 345**
140	5	125	10	8600	**199 244 326**	**199 244 346**
160	6	150	10	11400	**199 244 327**	**199 244 347**
225	8	200	10	19900	**199 244 328**	**199 244 348**
280	10	250	8	34000	**199 244 329**	**199 244 349**
315	12	300	5	50000	**199 244 330**	**199 244 350**

d (mm)	Size (inch)	Type of actuator	d2 (mm)	d2	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	L (mm)	L1 (mm)
63	2	PA-30 FO	160	UNC 5/8	120.6	328	77	134	117	70	15	45	276
75	2 ½	PA-30 FO	180	UNC 5/8	139.7	340	83	140	117	70	15	46	276
90	3	PA-35 FO	195	UNC 5/8	152.4	361	89	146	126	78	15	49	326
110	4	PA-40 FO	226	UNC 5/8	190.5	402	106	167	129	86		56	370
140	5	PA-45 FO	258	UNC 3/4	215.9	441	121	181	139	96		64	411
160	6	PA-50 FO	284	UNC 3/4	241.3	471	133	189	149	106		72	423
225	8	PA-55 FO	341	UNC 3/4	298.4	530	159	210	161	118		73	452
280	10	PA-70 FO	412	UNC 7/8	362.0	660	205	264	191	148		113	648
315	12	PA-70 FO	482	UNC 7/8	431.8	715	234	285	196	157		113	663

d (mm)	Size (inch)	L2 (mm)	L3 (mm)	Q1 (mm)	Q2 (mm)
63	2	65	165	40	
75	2 ½	65	182	54	35
90	3	72	210	67	50
110	4	80	240	88	74
140	5	90	272	113	97
160	6	100	300	139	123
225	8	112	360	178	169
280	10	137	440	210	207
315	12	145	510	256	253



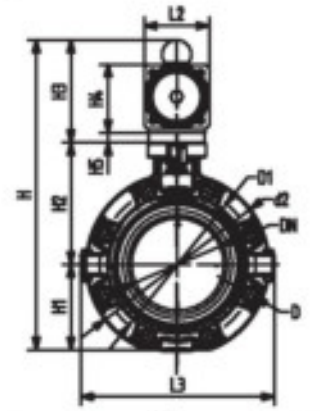
PROGEF Standard Lug-style, end installation butterfly valve type 244
With pneumatic actuator - double acting (DA)
Without manual override
Flange standard ANSI/ASME

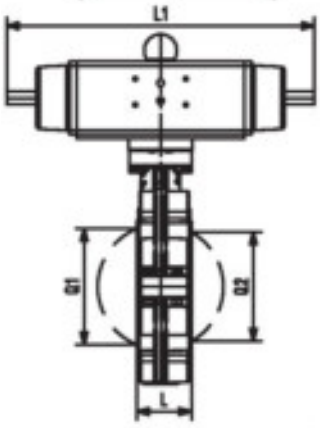
Model:

- Housing material: PP-GF30 with SS316 lug-inserts
- Control range 90°<)
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension ANSI/ASME B 16.5 Class 150

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)





d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	FKM Code
63	2	50	10	740	**199 244 362**	**199 244 382**
75	2 ½	65	10	1500	**199 244 363**	**199 244 383**
90	3	80	10	2400	**199 244 364**	**199 244 384**
110	4	100	10	3800	**199 244 365**	**199 244 385**
140	5	125	10	8600	**199 244 366**	**199 244 386**
160	6	150	10	11400	**199 244 367**	**199 244 387**
225	8	200	10	19900	**199 244 368**	**199 244 388**
280	10	250	8	34000	**199 244 369**	**199 244 389**
315	12	300	5	50000	**199 244 370**	**199 244 390**

d (mm)	Size (inch)	Type of actua-tor	d2 (mm)	d2	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	L (mm)	L1 (mm)
63	2	PA-35 DA	160	UNC 5/8	120.6	318	77	134	107	60	15	45	177
75	2 ½	PA-35 DA	180	UNC 5/8	139.7	330	83	140	107	60	15	46	177
90	3	PA-40 DA	195	UNC 5/8	152.4	348	89	146	113	66	15	49	190
110	4	PA-45 DA	226	UNC 5/8	190.5	384	104	167	111	78		56	235
140	5	PA-45 DA	258	UNC 3/4	215.9	413	121	181	111	78		64	235
160	6	PA-55 DA	284	UNC 3/4	241.3	461	133	189	139	96		72	279
225	8	PA-55 DA	341	UNC 3/4	298.4	508	159	210	139	96		73	279
280	10	PA-65 DA	412	UNC 7/8	362.0	630	205	264	161	118		113	350
315	12	PA-70 DA	482	UNC 7/8	431.8	692	234	285	173	130		113	381

d (mm)	Size (inch)	L2 (mm)	L3 (mm)	Q1 (mm)	Q2 (mm)
63	2	55	165	40	
75	2 ½	55	182	54	35
90	3	60	210	67	50
110	4	72	240	88	74
140	5	72	272	113	97
160	6	90	300	139	123
225	8	90	360	178	169
280	10	112	440	210	207
315	12	124	510	256	253



Lug-style end installation butterfly valve Type 244 PVC-U
FC (Fail safe to close)
Flange standard ANSI/ASME

Model:

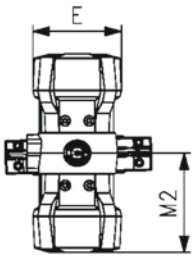
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

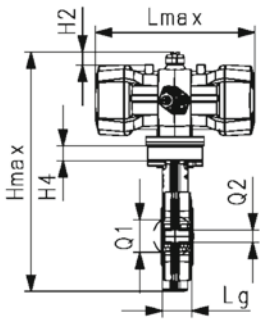
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

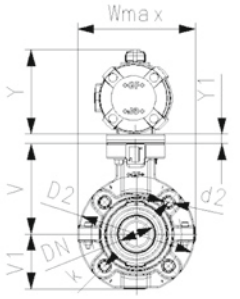
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 244 602**	1	3.499	**199 244 622**	1	3.499
75	2 ½	65	10	**199 244 603**	1	3.656	**199 244 623**	1	3.656
90	3	80	10	**199 244 604**	1	4.692	**199 244 624**	1	4.692
110	4	100	10	**199 244 605**	1	6.406	**199 244 625**	1	6.406
140	5	125	10	**199 244 606**	1	9.222	**199 244 626**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)
63	338.1	245.5	165.0	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	245.5	182.0	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	367.8	343.0	210.0	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	343.0	240.0	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	343.0	272.0	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9



d (mm)	Y (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	111	119.5	15	122.75
75	111	119.5	15	122.75
90	131	141.5	15	171.50
110	131	141.5		171.50
140	131	141.5		171.50



Lug-style end installation butterfly valve Type 244 PVC-U
FO (Fail safe to open)
Flange standard ANSI/ASME

Model:

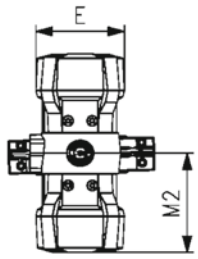
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

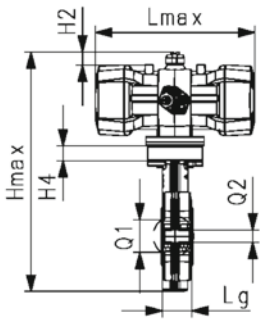
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

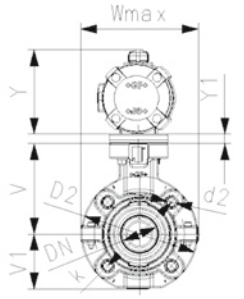
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 244 632**	1	3.499	**199 244 642**	1	3.499
75	2 ½	65	10	**199 244 633**	1	3.656	**199 244 643**	1	3.656
90	3	80	10	**199 244 634**	1	4.692	**199 244 644**	1	4.692
110	4	100	10	**199 244 635**	1	6.406	**199 244 645**	1	6.406
140	5	125	10	**199 244 636**	1	9.222	**199 244 646**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9



d (mm)	Y (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	111	119.5	15	122.75
75	111	119.5	15	122.75
90	131	141.5	15	171.50
110	131	141.5		171.50
140	131	141.5		171.50



Lug-style end installation butterfly valve Type 244 PVC-U
DA (Double acting)
Flange standard ANSI/ASME

Model:

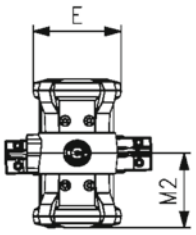
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

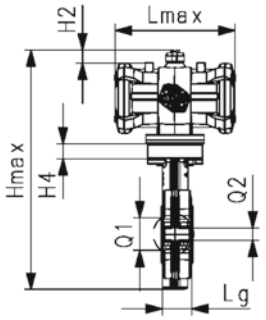
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

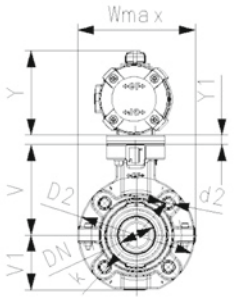
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 244 652**	1	3.500	**199 244 662**	1	3.499
75	2 ½	65	10	**199 244 653**	1	3.600	**199 244 663**	1	3.656
90	3	80	10	**199 244 654**	1	4.692	**199 244 664**	1	4.692
110	4	100	10	**199 244 655**	1	6.400	**199 244 665**	1	6.406
140	5	125	10	**199 244 656**	1	9.200	**199 244 666**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9



d (mm)	Y (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	111	119.5	15	91.75
75	111	119.5	15	91.75
90	111	119.5	15	91.75
110	131	141.5		130.50
140	131	141.5		130.50



Lug-style end installation butterfly valve Type 244 PVC-C
FC (Fail safe to close)
Flange standard ANSI/ASME

Model:

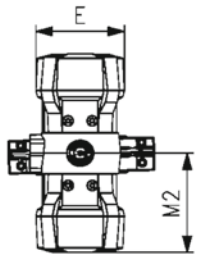
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

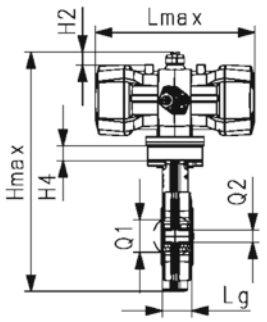
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

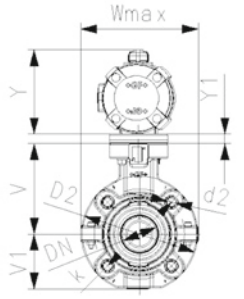
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 244 702**	1	3.499	**199 244 722**	1	3.499
75	2 ½	65	10	**199 244 703**	1	3.656	**199 244 723**	1	3.656
90	3	80	10	**199 244 704**	1	4.692	**199 244 724**	1	4.692
110	4	100	10	**199 244 705**	1	6.406	**199 244 725**	1	6.406
140	5	125	10	**199 244 706**	1	9.222	**199 244 726**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9



d (mm)	Y (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	111	119.5	15	122.75
75	111	119.5	15	122.75
90	131	141.5	15	171.50
110	131	141.5		171.50
140	131	141.5		171.50



Lug-style end installation butterfly valve type 244 PVC-C
FO (Fail safe to open)
Flange standard ANSI/ASME

Model:

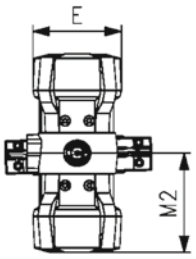
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

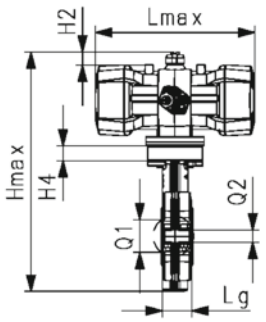
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

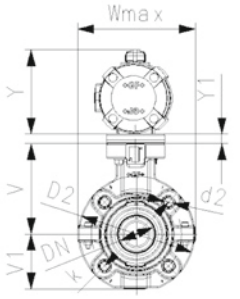
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 244 732**	1	3.499	**199 244 742**	1	3.499
75	2 ½	65	10	**199 244 733**	1	3.656	**199 244 743**	1	3.656
90	3	80	10	**199 244 734**	1	4.692	**199 244 744**	1	4.692
110	4	100	10	**199 244 735**	1	6.406	**199 244 745**	1	6.406
140	5	125	10	**199 244 736**	1	9.222	**199 244 746**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9



d (mm)	Y (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	111	119.5	15	122.75
75	111	119.5	15	122.75
90	131	141.5	15	171.50
110	131	141.5		171.50
140	131	141.5		171.50



Lug-style end installation butterfly valve type 244 PVC-C
DA (Double acting)
Flange standard ANSI/ASME

Model:

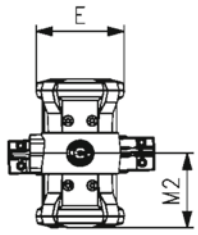
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

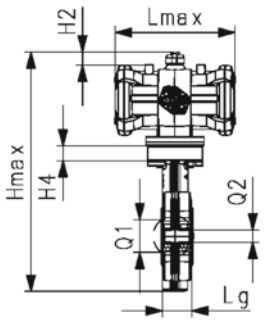
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

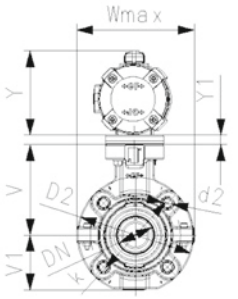
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 244 752**	1	3.500	**199 244 762**	1	3.499
75	2 ½	65	10	**199 244 753**	1	3.600	**199 244 763**	1	3.656
90	3	80	10	**199 244 754**	1	4.700	**199 244 764**	1	4.692
110	4	100	10	**199 244 755**	1	6.406	**199 244 765**	1	6.406
140	5	125	10	**199 244 756**	1	9.200	**199 244 766**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9



d (mm)	Y (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	111	119.5	15	91.75
75	111	119.5	15	91.75
90	111	119.5	15	91.75
110	131	141.5		130.50
140	131	141.5		130.50



PROGEF Standard Lug-style end installation butterfly valve type 244
FC (Fail safe to close)
Flange standard ANSI/ASME

Model:

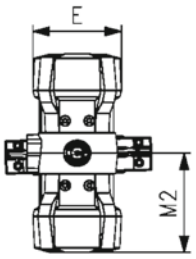
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

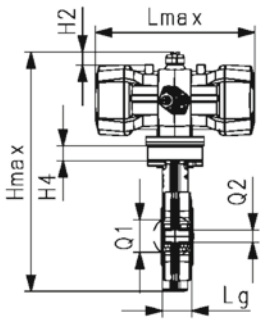
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

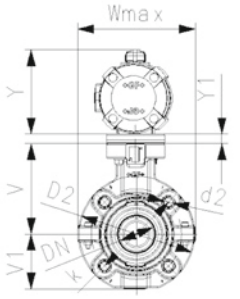
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 244 802**	1	3.499	**199 244 822**	1	3.499
75	2 ½	65	10	**199 244 803**	1	3.656	**199 244 823**	1	3.656
90	3	80	10	**199 244 804**	1	4.600	**199 244 824**	1	4.692
110	4	100	10	**199 244 805**	1	6.406	**199 244 825**	1	6.406
140	5	125	10	**199 244 806**	1	9.222	**199 244 826**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9



d (mm)	Y (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	111	119.5	15	122.75
75	111	119.5	15	122.75
90	131	141.5	15	171.50
110	131	141.5		171.50
140	131	141.5		171.50



PROGEF Standard Lug-style end installation butterfly valve type 244
FO (Fail safe to open)
Flange standard ANSI/ASME

Model:

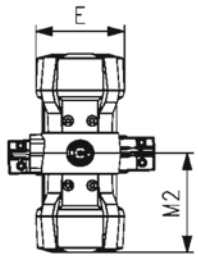
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

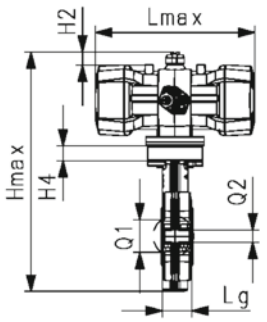
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

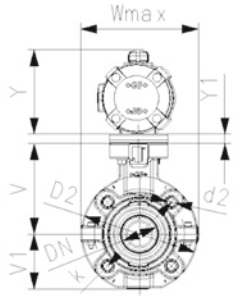
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 244 832**	4.198	**199 244 842**	1	3.499
75	2 ½	65	10	**199 244 833**	4.561	**199 244 843**	1	3.656
90	3	80	10	**199 244 834**	5.470	**199 244 844**	1	4.692
110	4	100	10	**199 244 835**	7.750	**199 244 845**	1	6.406
140	5	125	10	**199 244 836**	9.731	**199 244 846**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9



d (mm)	Y (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	111	119.5	15	122.75
75	111	119.5	15	122.75
90	131	141.5	15	171.50
110	131	141.5		171.50
140	131	141.5		171.50



PROGEF Standard Lug-style end installation butterfly valve type 244
DA (Double acting)
Flange standard ANSI/ASME

Model:

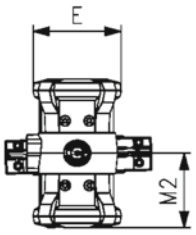
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

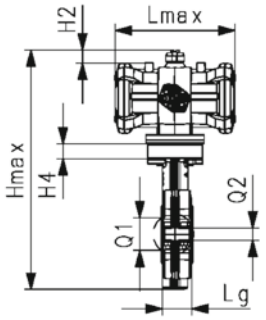
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

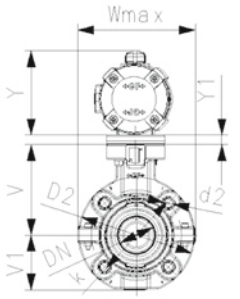
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 244 852**	1	3.499	**199 244 862**	1	3.499
75	2 ½	65	10	**199 244 853**	1	3.600	**199 244 863**	1	3.656
90	3	80	10	**199 244 854**	1	4.600	**199 244 864**	1	4.600
110	4	100	10	**199 244 855**	1	6.406	**199 244 865**	1	6.406
140	5	125	10	**199 244 856**	1	9.222	**199 244 866**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9



d (mm)	Y (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	111	119.5	15	91.75
75	111	119.5	15	91.75
90	111	119.5	15	91.75
110	131	141.5		130.50
140	131	141.5		130.50



Lug-style end installation butterfly valve type 244 ABS
FC (Fail safe to close)
Flange standard ANSI/ASME

Model:

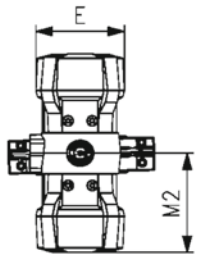
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

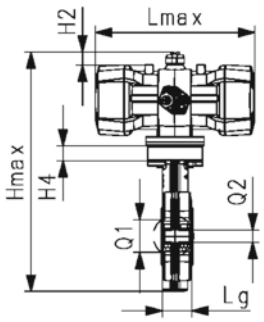
Option:

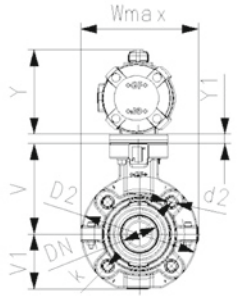
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)
63	2	50	10	**199 244 920**	1	3.499
75	2 ½	65	10	**199 244 921**	1	3.656
90	3	80	10	**199 244 922**	1	4.692
110	4	100	10	**199 244 923**	1	6.406
140	5	125	10	**199 244 924**	1	9.222

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9

d (mm)	Y (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	111	119.5	15	122.75
75	111	119.5	15	122.75
90	131	141.5	15	171.50
110	131	141.5		171.50
140	131	141.5		171.50



Lug-style end installation butterfly valve type 244 ABS
FO (Fail safe to open)
Flange standard ANSI/ASME

Model:

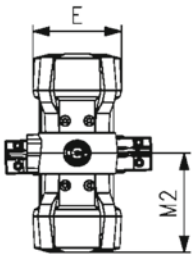
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

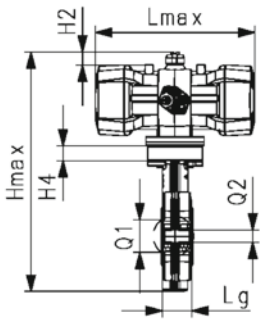
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

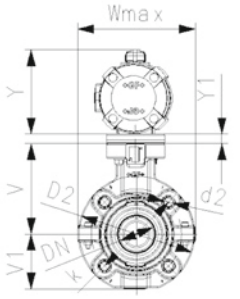
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)
63	2	50	10	**199 244 930**	1	3.499
75	2 ½	65	10	**199 244 931**	1	3.656
90	3	80	10	**199 244 932**	1	4.692
110	4	100	10	**199 244 933**	1	6.406
140	5	125	10	**199 244 934**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9



d (mm)	Y (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	111	119.5	15	122.75
75	111	119.5	15	122.75
90	131	141.5	15	171.50
110	131	141.5		171.50
140	131	141.5		171.50



Lug-style end installation butterfly valve type 244 ABS
DA (Double acting)
Flange standard ANSI/ASME

Model:

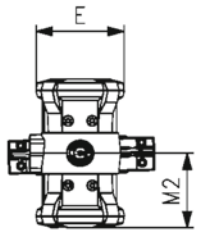
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

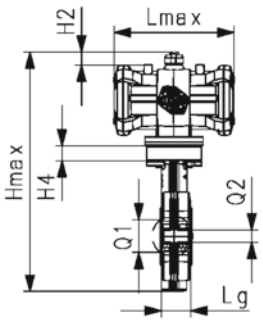
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

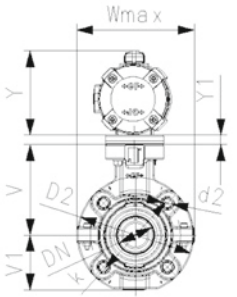
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)
63	2	50	10	**199 244 900**	1	3.499
75	2 ½	65	10	**199 244 901**	1	3.656
90	3	80	10	**199 244 902**	1	4.692
110	4	100	10	**199 244 903**	1	6.406
140	5	125	10	**199 244 904**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9



d (mm)	Y (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	111	119.5	15	91.75
75	111	119.5	15	91.75
90	111	119.5	15	91.75
110	131	141.5		130.50
140	131	141.5		130.50



SYGEF Standard Lug-style end installation butterfly valve type 244
FC (Fail safe to close)
Flange standard ANSI/ASME

Model:

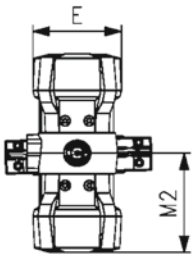
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

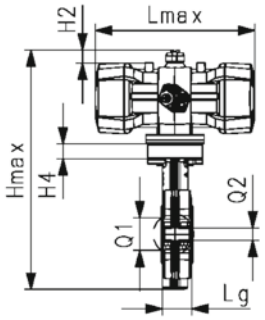
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

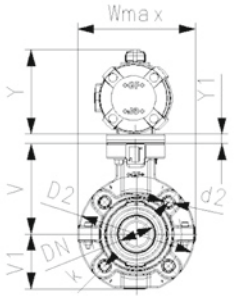
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 244 925**	1	3.499
75	2 ½	65	10	**199 244 926**	1	3.656
90	3	80	10	**199 244 927**	1	4.692
110	4	100	10	**199 244 928**	1	6.406
140	5	125	10	**199 244 929**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9



d (mm)	Y (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	111	119.5	15	122.75
75	111	119.5	15	122.75
90	131	141.5	15	171.50
110	131	141.5		171.50
140	131	141.5		171.50



SYGEF Standard Lug-style end installation butterfly valve type 244
FO (Fail safe to open)
Flange standard ANSI/ASME

Model:

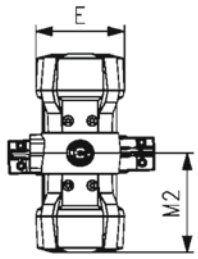
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

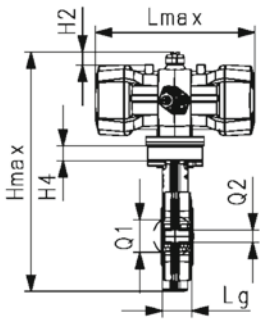
Option:

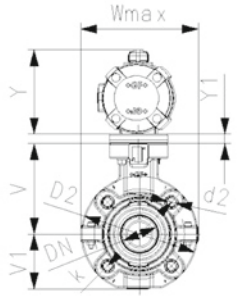
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 244 935**	1	3.499
75	2 ½	65	10	**199 244 936**	1	3.656
90	3	80	10	**199 244 937**	1	4.692
110	4	100	10	**199 244 938**	1	6.406
140	5	125	10	**199 244 939**	1	9.222

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9

d (mm)	Y (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	111	119.5	15	122.75
75	111	119.5	15	122.75
90	131	141.5	15	171.50
110	131	141.5		171.50
140	131	141.5		171.50



SYGEF Standard Lug-style end installation butterfly valve type 244
DA (Double acting)
Flange standard ANSI/ASME

Model:

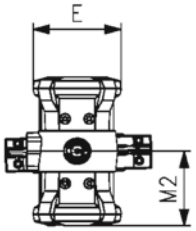
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

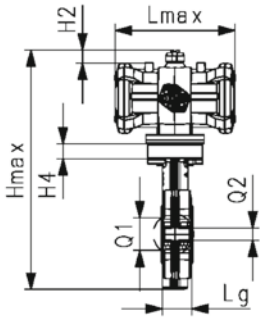
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

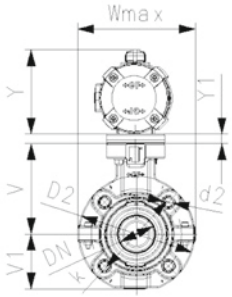
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	FKM Code	SP	Weight (kg)
63	2	50	10	**199 244 905**	1	3.499
75	2 ½	65	10	**199 244 906**	1	3.656
90	3	80	10	**199 244 907**	1	4.692
110	4	100	10	**199 244 908**	1	6.406
140	5	125	10	**199 244 909**	1	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9



d (mm)	Y (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	111	119.5	15	91.75
75	111	119.5	15	91.75
90	111	119.5	15	91.75
110	131	141.5		130.50
140	131	141.5		130.50

Butterfly valves electric type 147



PROGEF Standard Lug-style end installation butterfly valve type 147
With electric actuator 230V
Without manual override
Flange standard ANSI/ASME

Model:

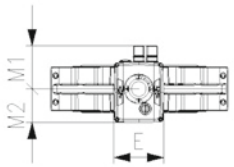
- Material: PP-H
- Voltage 100-230V, 50-60Hz
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension ANSI/ASME B 16.5 Class 150

Option:

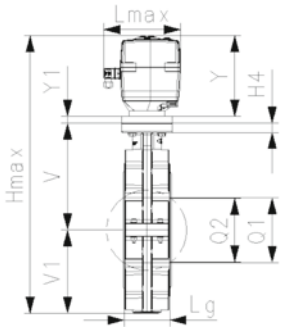
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE Code
63	2	50	10	740	**199 147 362**	6.193	**199 147 802**
75	2 ½	65	10	1500	**199 147 363**	6.535	**199 147 803**
90	3	80	10	2400	**199 147 364**	6.911	**199 147 804**
110	4	100	10	3800	**199 147 365**	8.925	**199 147 805**
140	5	125	10	8600	**199 147 366**	10.755	**199 147 806**
160	6	150	10	11400	**199 147 367**	12.539	**199 147 807**
225	8	200	10	19900	**199 147 368**	21.747	**199 147 808**
280	10	250	6	34000	**199 147 369**	24.385	
315	12	300	4	50000	**199 147 370**	30.916	





d (mm)	Size (inch)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2
63	2	378.3	190	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8
75	2 ½	391.2	190	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8
90	3	426.1	190	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8
110	4	462.8	190	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8
140	5	492.0	190	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4
160	6	522.8	190	300	90	189.0	23	134.5	71.5	284	139	123	UNC 3/4
225	8	571.3	190	360	90	210.5	23	161.5	72.5	341	178	169	UNC 3/4
280	10	670.6	190	440	125	264.4	23	206.9	113.2	412	210	207	UNC 7/8
315	12	720.0	190	510	125	285.2	23	235.5	114.6	482	256	253	UNC 7/8

d (mm)	Size (inch)	Y (mm)	Y1 (mm)	E (mm)	M1 (mm)	M2 (mm)
63	2	166.2		122.3	107.3	82.7
75	2 ½	166.2		122.3	107.3	82.7
90	3	189.3		122.3	107.3	82.7
110	4	189.3		122.3	107.3	82.7
140	5	189.3		122.3	107.3	82.7
160	6	199.3		122.3	107.3	82.7
225	8	199.3		122.3	107.3	82.7
280	10	199.3	17	122.3	107.3	82.7
315	12	199.3	17	122.3	107.3	82.7

Diaphragm valves type 317





PROGEF Standard Diaphragm valve type 317
With flanges Inch ANSI

Model:

- Material: PP-H
- Joining faces serrated
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504
- DN65 with PP-V backing flange
- DN80-150 with fixed flange

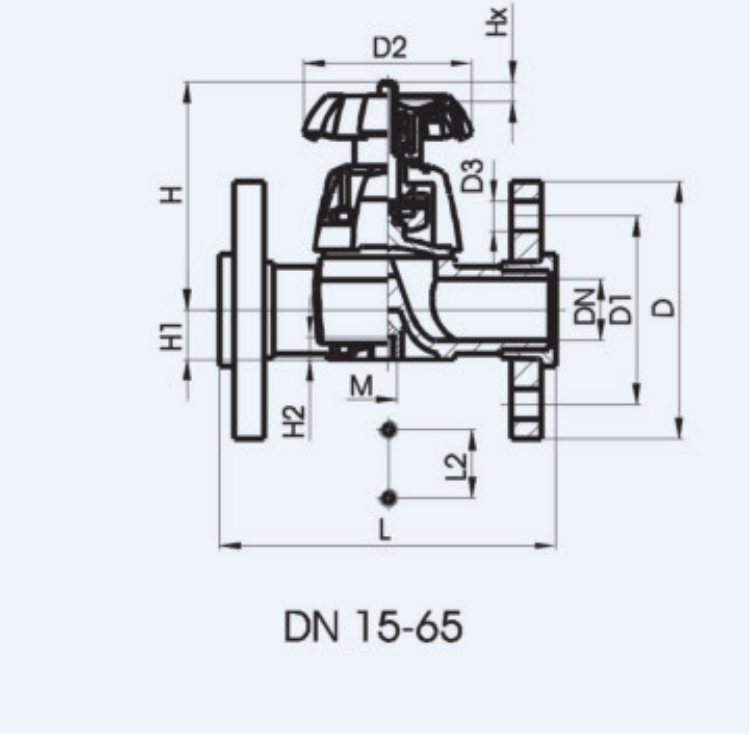
Option:

- Handwheel lockable DN65 (basic version not lockable)

***DN80 and DN150 fixed flanges metric and inch ANSI B16.5. For DN80: D1 metric =160mm, D1 ANSI =152mm**

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE with EPDM supporting diaphragm Code	Weight (kg)
75	65	2 ½	10	992	**167 317 523**	4.605	**167 317 538**	4.000
110	100	4	6	2700	**167 317 325**	11.238	**167 317 340**	11.300

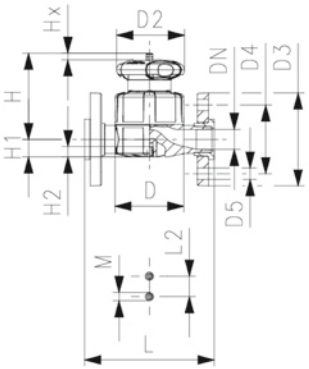
D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	M	Lift = Hx (mm)	AL
185	140	152	19	210	46	15	290		70		8	35	4
225	191	270	19	304	69	23	350	38	120		12	50	8



DN 15-65

Diaphragm valves type 517





PROGEF Standard Diaphragm valve type 517
With backing flanges PP-V Inch ANSI

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Joining faces flat/serrated
- Overall length EN 558
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

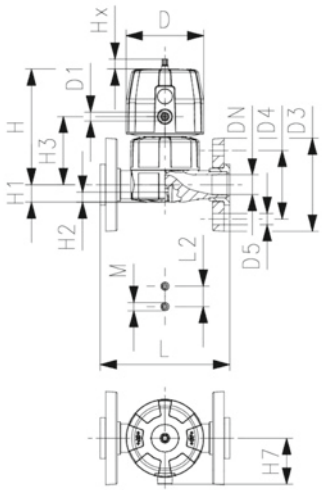
- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
20	15	½	10	125	**167 517 712**	0.480	**167 517 732**	0.490
25	20	¾	10	271	**167 517 713**	0.629	**167 517 733**	0.640
32	25	1	10	481	**167 517 714**	1.296	**167 517 734**	1.316
40	32	1 ¼	10	759	**167 517 715**	1.640	**167 517 735**	1.660
50	40	1 ½	10	1263	**167 517 716**	1.872	**167 517 736**	2.631
63	50	2	10	1728	**167 517 717**	2.609	**167 517 737**	3.572

D (mm)	D2 (mm)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)
65	65	95	60	16	73	14	12	130	25	M6	7
80	65	105	70	16	81	18	12	150	25	M6	10
88	87	115	79	16	107	22	12	160	25	M6	13
101	87	140	89	16	115	26	15	180	45	M8	15
117	135	150	98	16	148	32	15	200	45	M8	19
144	135	165	121	19	166	39	15	230	45	M8	25

Diaphragm valves pneumatic DIASTAR Six





PROGEF Standard
Diaphragm valve DIASTAR Six
FC (Fail safe to close)
With backing flanges PP-V Inch ANSI

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

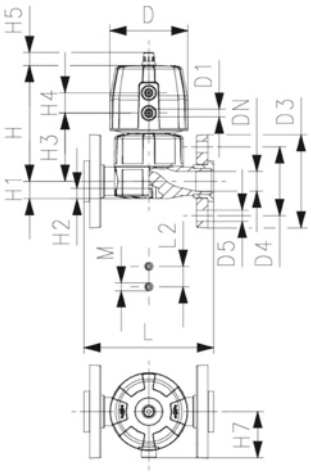
- Individual configuration of the valve

Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
¾	20	6	271	**167 617 713**	1.148
1	25	6	481	**167 617 714**	1.410
1 ¼	32	6	759	**167 617 715**	2.279
1 ½	40	6	960	**167 617 716**	2.751
2	50	6	1181	**167 617 717**	3.921

Size (inch)	D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)
¾	96	⅛	105	70	16	132	18	12	73	57	150	25	M6	10
1	96	⅛	115	79	16	143	22	12	84	69	160	25	M6	13
1 ¼	120	⅛	140	89	16	173	26	15	99	69	180	45	M8	14
1 ½	120	⅛	150	98	16	193	32	15	119	69	200	45	M8	16
2	120	⅛	165	121	19	205	39	15	132	69	230	45	M8	16

Diaphragm valves pneumatic DIASTAR Ten





PROGEF Standard Diaphragm valve DIASTAR Ten
DA (Double acting)
With backing flanges PP-V Inch ANSI

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
20	15	½	10	10*	125	**167 657 712**	0.608	**167 657 732**	0.618
25	20	¾	10	10*	271	**167 657 713**	1.013	**800 063 749**	1.760
32	25	1	10	10*	481	**167 657 714**	1.272	**800 063 748**	2.610
40	32	1 ¼	10	10*	759	**167 657 715**	2.009	**800 063 750**	3.760
50	40	1 ½	10	10*	1263	**167 657 716**	3.049	**167 657 736**	3.079
63	50	2	10	10*	1728	**167 657 717**	4.002	**167 657 737**	4.030

D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
68	⅛	95	60	16	101	14	12	60	24	16	57	130	25	M6
96	⅛	105	70	16	132	18	12	73	25	16	57	150	25	M6
96	⅛	115	79	16	143	22	12	84	25	16	69	160	25	M6
120	⅛	140	89	16	173	26	15	99	26	26	88	180	45	M8
150	¼	150	98	16	214	32	15	119	36	26	103	200	45	M8
150	¼	165	121	19	226	39	15	132	36	26	103	230	45	M8

Lift = Hx (mm)
7
10
13
15
19
23



PROGEF Standard Diaphragm valve DIASTAR Ten
FO (Fail safe to open)
With backing flanges PP-V Inch ANSI

Model:

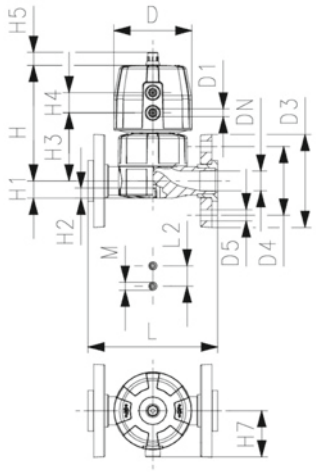
- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**

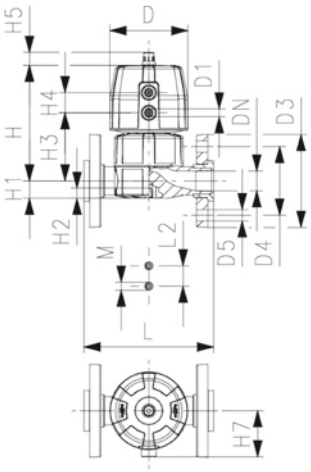


d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
20	15	½	10	10*	125	**167 647 712**	0.624	**167 647 732**	0.634
25	20	¾	10	10*	271	**167 647 713**	1.049	**167 647 733**	1.060
32	25	1	10	10*	481	**167 647 714**	1.302	**167 647 734**	1.322
40	32	1 ¼	10	10*	759	**167 647 715**	2.069	**167 647 735**	2.089
50	40	1 ½	10	10*	1263	**167 647 716**	3.506	**167 647 736**	3.829
63	50	2	10	10*	1728	**167 647 717**	4.752	**167 647 737**	4.780

D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
68	⅛	95	60	16	101	14	12	60	24	16	57	130	25	M6
96	⅛	105	70	16	132	18	12	73	25	16	57	150	25	M6
96	⅛	115	79	16	143	22	12	84	25	16	69	160	25	M6
120	⅛	140	89	16	173	26	15	99	26	26	88	180	45	M8
150	¼	150	98	16	214	32	15	119	36	26	103	200	45	M8
150	¼	165	121	19	226	39	15	132	36	26	103	230	45	M8

Lift = Hx (mm)
7
10
13
15
19
23





PROGEF Standard Diaphragm valve DIASTAR Ten
FC (Fail safe to close)
With backing flanges PP-V Inch ANSI

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**

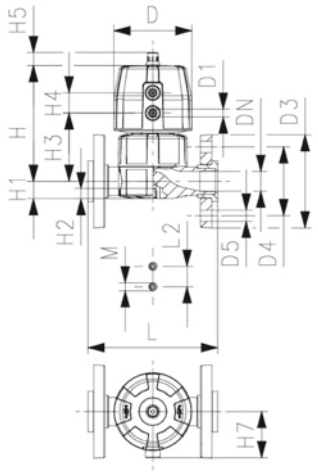
d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
20	15	½	10	10*	125	**167 627 712**	0.674	**167 627 732**	0.684
25	20	¾	10	10*	271	**167 627 713**	1.223	**167 627 733**	1.234
32	25	1	10	10*	481	**167 627 714**	1.482	**167 627 734**	1.502
40	32	1 ¼	10	10*	759	**167 627 715**	2.429	**167 627 735**	2.449
50	40	1 ½	10	10*	1263	**167 627 716**	3.889	**167 627 736**	3.919
63	50	2	10	6*	1728	**167 627 717**	4.842	**167 627 737**	4.870

D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
68	⅛	95	60	16	101	14	12	60	24	16	43	130	25	M6
96	⅛	105	70	16	132	18	12	73	25	16	57	150	25	M6
96	⅛	115	79	16	143	22	12	84	25	16	69	160	25	M6
120	⅛	140	89	16	173	26	15	99	26	26	69	180	45	M8
150	¼	150	98	16	193	32	15	119	36	26	88	200	45	M8
150	¼	165	121	19	205	39	15	132	36	26	88	230	45	M8

Lift = Hx (mm)
7
10
13
15
19
23

Diaphragm valves pneumatic DIASTAR TenPlus





PROGEF Standard Diaphragm valve DIASTAR TenPlus
FC (Fail safe to close)
With backing flanges PP-V Inch ANSI

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **both sides**

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
20	15	½	10	10*	125	**167 687 712**	1.074	**167 687 732**	1.084
25	20	¾	10	10*	271	**167 687 713**	1.223	**167 687 733**	1.234
32	25	1	10	10*	481	**167 687 714**	2.076	**167 687 734**	2.096
40	32	1 ¼	10	10*	759	**167 687 715**	3.499	**167 687 735**	3.519
50	40	1 ½	10	10*	1263	**167 687 716**	5.297	**167 687 736**	5.327
63	50	2	10	10*	1728	**167 687 717**	6.249	**167 687 737**	6.277

D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
96	⅛	95	60	16	127	14	12	68	25	16	57	130	25	M6
96	⅛	105	70	16	132	18	12	73	25	16	57	150	25	M6
120	⅛	115	79	16	167	22	12	93	26	26	69	160	25	M6
150	¼	140	89	16	196	26	15	101	36	26	88	180	45	M8
180	¼	150	98	16	239	32	15	124	37	26	103	200	45	M8
180	¼	165	121	19	251	39	15	137	37	26	103	230	45	M8

Lift = Hx (mm)
7
10
13
15
19
23

Diaphragm valves DIASTAR big dimensions



PROGEF Standard Diaphragm valve type DIASTAR
Series 025 FC (Fail safe to close)
With fixed flanges Inch ANSI

Model:

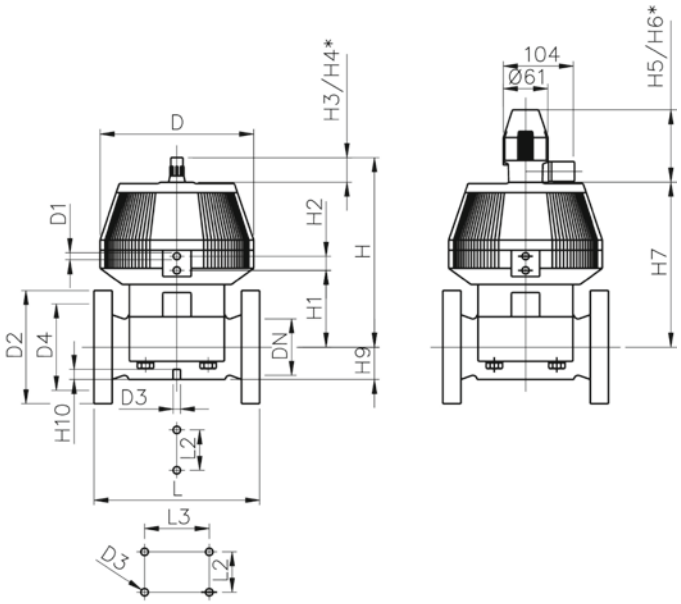
- Material: PP-H
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504
- With position indicator / Working pressure: **one side**

* With backing flanges PP-V
** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

	d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
*	75	2 ½	65	10	992	**199 025 207**	13.700	**199 025 237**	13.700
	110	4	100	8	2700	**199 025 209**	22.800	**199 025 239**	22.800

	D (mm)	D1_G (inch)	D2 (mm)	D3[M] (mm)	D4 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	H7 (mm)	H9 (mm)	H10 (mm)
*	280	¼	185	8	145	344	148	24	46	100	129	195	298	46	15
	335	¼	225	12	180	395	176	24	46	100	129	195	349	69	20

	L (mm)	L2 (mm)	L3 (mm)
*	290	70	
	350	120	



+GF+



PROGEF Standard Diaphragm valve type DIASTAR
Series 025 FO (Fail safe to open)
With fixed flanges Inch ANSI

Model:

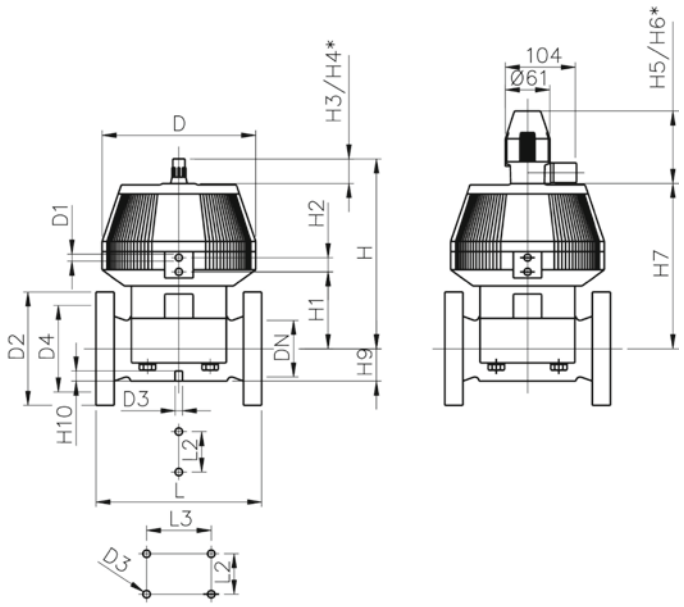
- Material: PP-H
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504
- With position indicator / Working pressure: **one side**

* With backing flanges PP-V
** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

	d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
*	75	2 ½	65	10	992	**199 025 217**	11.300	**199 025 247**	11.300
	110	4	100	8	2700	**199 025 219**	22.500	**199 025 249**	22.500

	D (mm)	D1_G (inch)	D2 (mm)	D3[M] (mm)	D4 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	H7 (mm)	H9 (mm)	H10 (mm)
*	280	¼	185	8	145	344	148	24	46	100	129	195	298	46	15
	335	¼	225	12	180	395	176	24	46	100	129	195	349	69	20

	L (mm)	L2 (mm)	L3 (mm)
*	290	70	
	350	120	

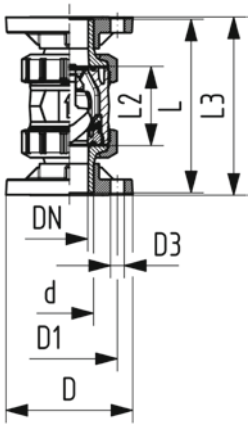


+GF+

Cone check valves

Type 561





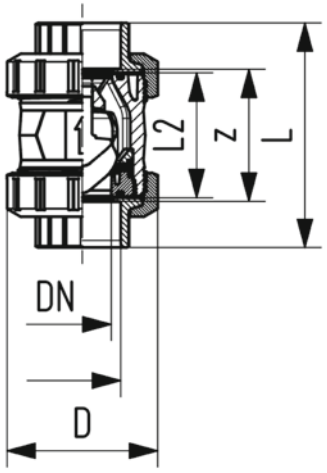
PROGEF Standard
Check valve type 561
With fixed flanges ANSI

Model:

- Material: PP-H
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Installation length according to EN 558-1
- Z-length, end connectors and union nuts **not** compatible with type 360
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	D (mm)	D1 (mm)	D3 (mm)	L (mm)	L2 (mm)	L3 (mm)	closest inch (inch)
20	15	10	180	**800 052 461**	95	65	14	120	56	130	½
25	20	10	380	**800 052 462**	105	75	14	140	65	150	¾
32	25	10	460	**800 050 062**	115	85	14	150	71	160	1
50	40	10	1080	**800 052 060**	150	110	18	190	89	200	1 ½
63	50	10	1670	**800 048 807**	165	125	18	220	101	230	2
	80		1670	**800 050 404**							3
	100			**800 055 955**							
	65			**800 056 229**							





PROGEF Standard Check valve type 561
Without spring
With threaded sockets reinforced NPT

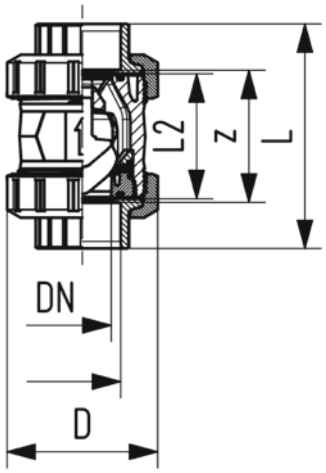
Model:

- Material: PP-H
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	NPT	⅜	10	190	**167 561 101**	0.080	**167 561 111**	0.080
20	15	NPT	½	10	180	**167 561 102**	0.090	**167 561 112**	0.090
25	20	NPT	¾	10	380	**167 561 103**	0.170	**167 561 113**	0.180
32	25	NPT	1	10	460	**167 561 104**	0.200	**167 561 114**	0.210
40	32	NPT	1 ¼	10	850	**167 561 105**	0.350	**167 561 115**	0.360
50	40	NPT	1 ½	10	1080	**167 561 106**	0.500	**167 561 116**	0.510
63	50	NPT	2	10	1670	**167 561 107**	0.920	**167 561 117**	0.920

D (mm)	L (mm)	L2 (mm)	z (mm)
50	96	56	71
50	99	56	64
58	111	65	76

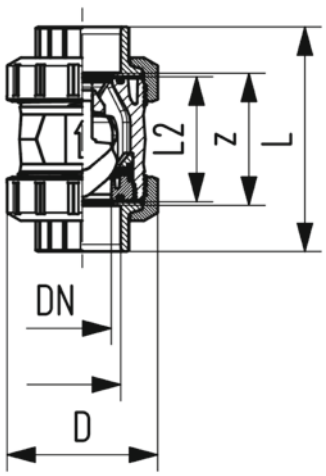
table continued on the next page



D (mm)	L (mm)	L2 (mm)	z (mm)
68	127	71	83
84	146	85	100
97	157	89	111
124	183	101	134

Type 562





PROGEF Standard
Check valve type 562
With threaded sockets reinforced NPT

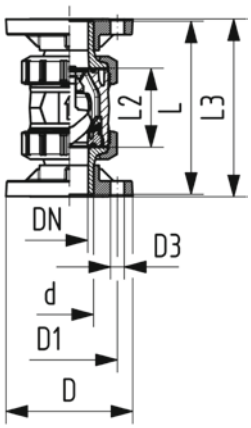
Model:

- Material: PP-H
- For horizontal or vertical installation
- 100% leak-tight in the closed/idle state, independent of installation orientation and without hydrostatic head
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

d (mm)	NPT (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	⅜	10	10	190	**167 562 101**	0.080	**167 562 111**	0.080
20	½	15	10	180	**167 562 102**	0.090	**167 562 112**	0.090
25	¾	20	10	380	**167 562 103**	0.170	**167 562 113**	0.180
32	1	25	10	460	**167 562 104**	0.200	**167 562 114**	0.210
40	1 ¼	32	10	850	**167 562 105**	0.350	**167 562 115**	0.360
50	1 ½	40	10	1080	**167 562 106**	0.500	**167 562 116**	0.510
63	2	50	10	1670	**167 562 107**	0.920	**167 562 117**	0.920

D (mm)	L (mm)	L2 (mm)	z (mm)
50	96	56	71
50	99	56	64
58	111	65	76
68	127	71	83
84	146	85	100
97	157	89	111
124	183	101	134





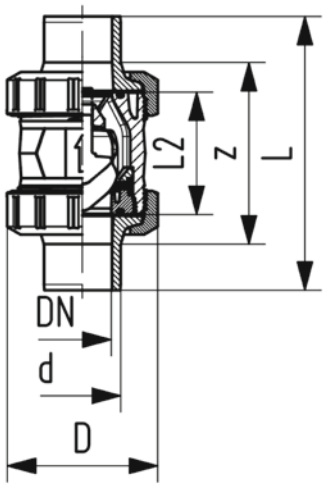
PROGEF Standard
Check valve type 562
With fixed flanges ANSI

Model:

- Material: PP-H
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Installation length according to EN 558-1
- Z-length, end connectors and union nuts **not** compatible with type 360
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	D (mm)	D1 (mm)	D3 (mm)	L (mm)	L2 (mm)	L3 (mm)	closest inch (inch)
20	15	10	180		95	65	14	120	56	130	½
25	20	10	380		105	75	14	140	65	150	¾
32	25	10	460	**800 052 016**	115	85	14	150	71	160	1
40	32	10	850		140	100	18	170	85	180	1 ¼
50	40	10	1080		150	110	18	190	89	200	1 ½
63	50	10	1670	**800 052 015**	165	125	18	220	101	230	2
110	100	10	4150	**800 052 130**	238			336	164		4





PROGEF Standard
Check valve type 562
With fixed flanges ANSI

Model:

- Material: PP-H
- For horizontal or vertical installation
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	D (mm)	L (mm)	L2 (mm)	closest inch (inch)
16	10	10	190			50	110	56	⅜
20	15	10	180			50	120	56	½
25	20	10	380			58	139	65	¾
32	25	10	460			68	150	71	1
40	32	10	850			84	170	85	1 ¼
50	40	10	1080			97	190	89	1 ½
63	50	10	1670			124	220	101	2
75	65	10	2950			166	280	136	2 ½
90	80	10	3600			200	296	141	3
110	100	10	4150	**800 052 130**	9.300	238	336	164	4

PROGEF Standard JIS



PROGEF Standard - JIS		Page
	Butt fusion flange adaptors	380
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	Ball valves type 546	382
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	Diaphragm valves type 517	389
	Diaphragm valves pneumatic DIASTAR Six	390
	Diaphragm valves pneumatic DIASTAR Ten	391
	Diaphragm valves pneumatic DIASTAR TenPlus	394







PROGEF Standard Flange adaptor
SDR17.6/PN6 JIS 10K Jointing face: flat

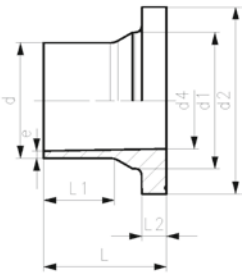
Model:

- Material: PP-H
- IR- Infrared welding compatible
- Suitable for butterfly valves type 567/578 and 037/038/039
- Conventional butt-welding according to DVS 2207

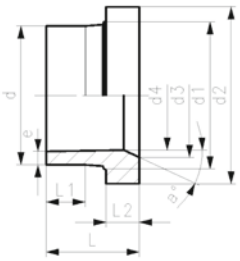
d (mm)	DN (mm)	PN (bar)	FM	Type	Code	Weight (kg)
50	40	6	IR	A	**727 905 210**	0.052
63	50	6	IR	A	**727 905 211**	0.087
75	65	6	IR	A	**727 905 787**	0.203
90	80	6	IR	A	**727 905 788**	0.273
110	100	6	IR	A	**727 905 789**	0.363
140	125	6	IR	B	**727 905 216**	0.499
160	150	6	IR	B	**727 905 417**	0.730
225	200	6	IR	C	**727 905 420**	1.420
315	300	6	IR	C	**727 798 223**	2.499

d (mm)	DN (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	a
50	40	60	73		44	59	32	9	3.2	
63	50	63	90		55	66	38	10	4.0	
75	65	89	106		65	75	43	11	4.5	
90	80	105	125		78	75	41	12	5.4	
110	100	125	150		96	75	40	13	6.6	
140	125	155	188	127	120	79	34	17	8.3	27
160	150	175	212	158	142	100	40	19	9.1	30
225	200	235	268	210	196	125	44	24	13.9	30
315	300	335	370	300	278	150	50	50	19.3	21

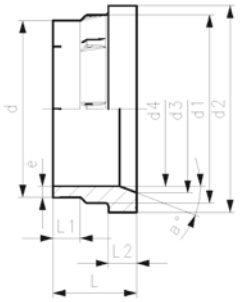
Type A



Type B

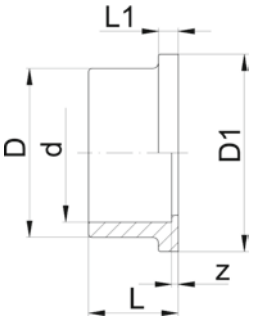


Type C



Socket fusion flange adaptors





PROGEF Standard Flange adaptor
PN10 jointing face flat

Model:

- Counterpart: flange adaptor flat or with O-ring groove
- Connection: according to JIS 10K, BS10
- Gasket: O-ring EPDM

d (mm)	Size (inch)	DN (mm)	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	D (mm)	D1 (mm)	z (mm)
20	½	15	10	**727 800 206**	0.007	19	6	27	34	5
25	¾	20	10	**727 800 207**	0.010	21	7	33	41	5
32	1	25	10	**727 800 208**	0.015	23	7	41	50	5
40	1 ¼	32	10	**727 800 209**	0.028	25	8	50	61	5
50	1 ½	40	10	**727 800 210**	0.034	28	8	61	73	5
63	2	50	10	**727 800 211**	0.058	32	9	76	90	5
75	2 ¼	65	10	**727 800 212**	0.090	35	10	91	106	5
90	3	80	10	**727 800 213**	0.145	42	11	109	125	7
110	4	100	10	**727 800 214**	0.227	49	12	131	150	7

Ball valves type 546



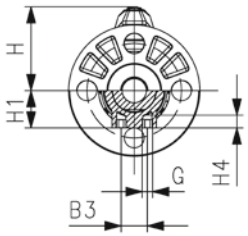
PROGEF Standard Ball Valve type 546 Pro
With backing flanges PP-GF JIS with PP-H

Model:

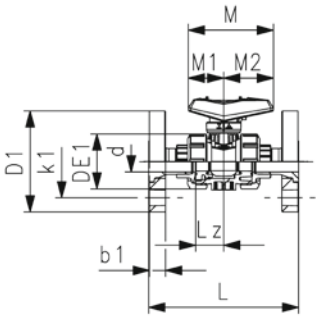
- Lockable lever as standard (DN10-DN50)
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	½	10	185	**167 546 942**	1	0.314	**167 546 952**	1	0.314
25	20	¾	10	350	**167 546 943**	1	0.432	**167 546 953**	1	0.432
32	25	1	10	700	**167 546 944**	1	0.676	**167 546 954**	1	0.676
40	32	1 ¼	10	1000	**167 546 945**	1	0.970	**167 546 955**	1	0.970
50	40	1 ½	10	1600	**167 546 946**	1	1.216	**167 546 956**	1	1.216
63	50	2	10	3100	**167 546 947**	1	1.966	**167 546 957**	1	1.966
75	65	2 ½	10	5000	**167 546 948**	1	4.300	**167 546 958**	1	4.300
90	80	3	10	7000	**167 546 949**	1	5.953	**167 546 959**	1	6.400
110	100	4	10	11000	**167 546 950**	1	8.148	**167 546 960**	1	10.000



d (mm)	b1 (mm)	B3 (mm)	D1 (mm)	DE1 (mm)	G (inch)	H (mm)	H1 (mm)	H4 (mm)	k1 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)
20	12	25	95	50	M6	60.5	27	12	70	130	28	82	35	47
25	12	25	105	58	M6	74.0	30	12	75	150	33	106	44	62
32	14	25	115	68	M6	80.0	36	12	90	160	36	106	44	62
40	16	45	140	84	M8	95.0	44	15	100	180	43	131	57	74
50	16	45	150	97	M8	101.5	51	15	105	200	45	131	57	74
63	18	45	165	124	M8	116.5	64	15	120	230	51	152	66	86
75	18	70	166	166	M8	169.0	85	15	140	290	68	270	64	205
90	20	70	200	200	M8	180.0	105	15	150	310	71	270	64	205
110	20	120	238	238	M12	194.0	123	22	175	350	82	326	71	255

Ball valves pneumatic type 255



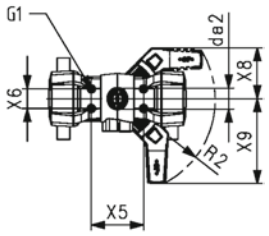
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FC (Fail Safe to Close)
With backing flanges PP-GF JIS with PP-H
With manual override

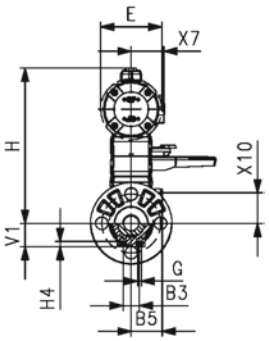
Model:

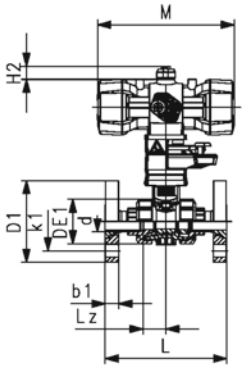
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	½	10	185	**199 255 363**	1	1.700	**199 255 373**	1	1.700
25	20	¾	10	350	**199 255 364**	1	1.900	**199 255 374**	1	1.900
32	25	1	10	700	**199 255 365**	1	2.100	**199 255 375**	1	2.100
40	32	1 ¼	10	1000	**199 255 366**	1	3.400	**199 255 376**	1	3.400
50	40	1 ½	10	1600	**199 255 367**	1	3.900	**199 255 377**	1	3.900
63	50	2	10	3100	**199 255 368**	1	4.900	**199 255 378**	1	4.900

d (mm)	Actuator	b1 (mm)	B3 (mm)	B5 (mm)	D1 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	k1 (mm)	L (mm)
20	PPA15	12	25	16.2	95	33	50	74	M6	M5	215	20	12	70	130
25	PPA15	12	25	17.5	105	33	58	74	M6	M5	219	20	12	75	150
32	PPA15	14	25	17.5	115	33	68	94	M6	M5	238	20	12	90	160
40	PPA40	16	45	23.3	140	33	84	94	M8	M5	244	20	15	100	180
50	PPA40	16	45	23.3	150	33	97	120	M8	M5	273	20	15	105	200
63	PPA40	18	45	24.3	165	33	124	120	M8	M5	288	20	15	120	230

d (mm)	Lz (mm)	M (mm)	R2	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X8 (mm)	X9 (mm)	X10 (mm)
20	28	159	R150	27	80	30	43	78	132	38.00
25	33	159	R150	30	80	30	43	78	132	41.90
32	36	211	R150	36	80	30	51	78	132	47.00
40	43	211	R150	44	80	30	51	78	132	53.50
50	45	246	R150	51	80	30	62	78	132	62.75
63	51	246	R150	64	80	30	62	78	132	77.00



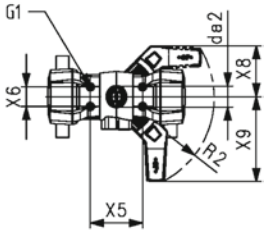
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FO (Fail Safe to Open)
With backing flanges PP-GF JIS with PP-H
With manual override

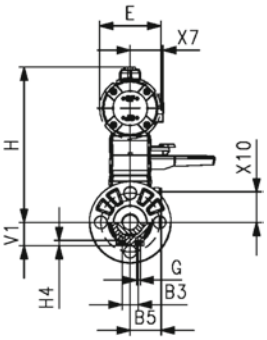
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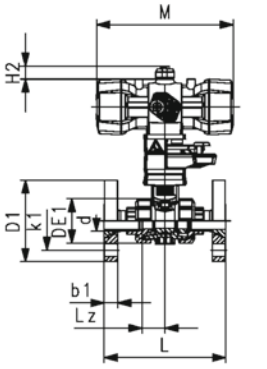
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	½	10	185	**199 255 383**	1	1.700	**199 255 393**	1	1.700
25	20	¾	10	350	**199 255 384**	1	1.900	**199 255 394**	1	1.900
32	25	1	10	700	**199 255 385**	1	2.100	**199 255 395**	1	2.100
40	32	1 ¼	10	1000	**199 255 386**	1	3.400	**199 255 396**	1	3.400
50	40	1 ½	10	1600	**199 255 387**	1	3.900	**199 255 397**	1	3.900
63	50	2	10	3100	**199 255 388**	1	4.900	**199 255 398**	1	4.900

d (mm)	Actuator	b1 (mm)	B3 (mm)	B5 (mm)	D1 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	k1 (mm)	L (mm)
20	PPA15	12	25	16.2	95	33	50	74	M6	M5	215	20	12	70	130
25	PPA15	12	25	17.5	105	33	58	74	M6	M5	219	20	12	75	150
32	PPA15	14	25	17.5	115	33	68	94	M6	M5	238	20	12	90	160
40	PPA40	16	45	23.3	140	33	84	94	M8	M5	244	20	15	100	180
50	PPA40	16	45	23.3	150	33	97	120	M8	M5	273	20	15	105	200
63	PPA40	18	45	24.3	165	33	124	120	M8	M5	288	20	15	120	230

d (mm)	Lz (mm)	M (mm)	R2	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X8 (mm)	X9 (mm)	X10 (mm)
20	28	159	R150	27	80	30	43	78	132	38.00
25	33	159	R150	30	80	30	43	78	132	41.90
32	36	211	R150	36	80	30	51	78	132	47.00
40	43	211	R150	44	80	30	51	78	132	53.50
50	45	246	R150	51	80	30	62	78	132	62.75
63	51	246	R150	64	80	30	62	78	132	77.00



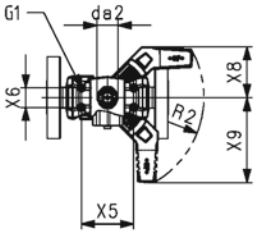
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
DA (Double Acting)
With backing flanges PP-GF JIS with PP-H
With manual override

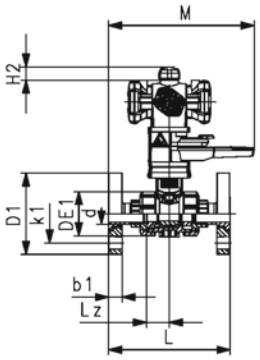
Model:

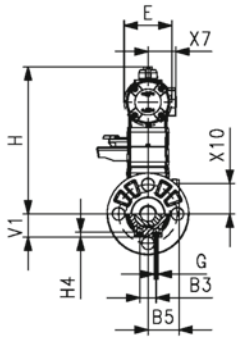
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible





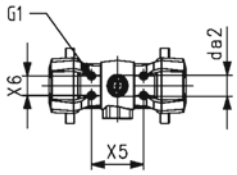


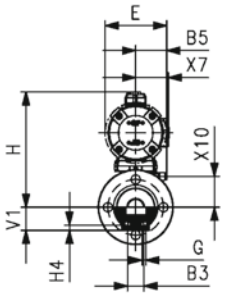
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	½	10	185	**199 255 403**	1	1.700	**199 255 413**	1	1.700
25	20	¾	10	350	**199 255 404**	1	1.900	**199 255 414**	1	1.900
32	25	1	10	700	**199 255 405**	1	2.100	**199 255 415**	1	2.100
40	32	1 ¼	10	1000	**199 255 406**	1	3.400	**199 255 416**	1	3.400
50	40	1 ½	10	1600	**199 255 407**	1	3.900	**199 255 417**	1	3.900
63	50	2	10	3100	**199 255 408**	1	4.900	**199 255 418**	1	4.900

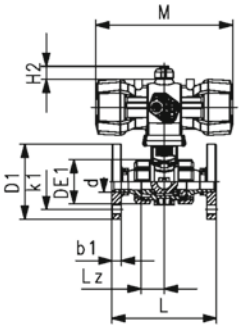
d (mm)	Actuator	b1 (mm)	B3 (mm)	B5 (mm)	D1 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	k1 (mm)	L (mm)
20	PPA08	12	25	16.2	95	33	50	74	M6	M5	215	20	12	70	130
25	PPA08	12	25	17.5	105	33	58	74	M6	M5	219	20	12	75	150
32	PPA08	14	25	17.5	115	33	68	74	M6	M5	238	20	12	90	160
40	PPA15	16	45	23.3	140	33	84	94	M8	M5	244	20	15	100	180
50	PPA15	16	45	23.3	150	33	97	120	M8	M5	273	20	15	105	200
63	PPA40	18	45	24.3	165	33	124	120	M8	M5	288	20	15	120	230

d (mm)	Lz (mm)	M (mm)	R2	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X8 (mm)	X9 (mm)	X10 (mm)
20	28	128	R150	27	80	30	43	78	132	38.00
25	33	128	R150	30	80	30	43	78	132	41.90
32	36	128	R150	36	80	30	51	78	132	47.00
40	43	159	R150	44	80	30	51	78	132	53.50
50	45	159	R150	51	80	30	62	78	132	62.75
63	51	184	R150	64	80	30	62	78	132	77.00









PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FC (Fail safe to close)
With backing flanges PP-GF JIS with PP-H
Without manual override
4.2 bar control pressure

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible

d (mm)	PN (bar)	DN (mm)	Size (inch)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	10	15	½	185	**199 255 423**	1	1.700	**199 255 433**	1	1.700
25	10	20	¾	350	**199 255 424**	1	1.900	**199 255 434**	1	1.900
32	10	25	1	700	**199 255 425**	1	2.100	**199 255 435**	1	2.100
40	10	32	1 ¼	1000	**199 255 426**	1	3.400	**199 255 436**	1	3.400
50	10	40	1 ½	1600	**199 255 427**	1	3.900	**199 255 437**	1	3.900
63	10	50	2	3100	**199 255 428**	1	4.900	**199 255 438**	1	4.900
75	10	65	2 ½	5000	**199 255 429**	1	8.600	**199 255 439**	1	8.600
90	10	80	3	7000	**199 255 430**	1	11.200	**199 255 440**	1	11.200
110	10	100	4	11000	**199 255 431**	1	16.600	**199 255 441**	1	16.600

Actuator	b1 (mm)	B3 (mm)	B5 (mm)	da2 (mm)	D1 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H4 (mm)	H2 (mm)	k1 (mm)	L (mm)
PPA15	12	25	16.2	33	94	50	94	M6	M5	168	12	20	70	130
PPA15	12	25	17.5	33	105	58	94	M6	M5	172	12	20	75	150
PPA15	14	25	17.5	33	115	68	94	M6	M5	178	12	20	90	160
PPA40	16	45	23.3	33	140	84	120	M8	M5	207	15	20	100	180
PPA40	16	45	23.3	33	150	97	120	M8	M5	213	15	20	105	200
PPA40	18	45	24.3	33	165	124	120	M8	M5	228	15	20	120	230
PPA80	18	70	28.5	33	166	166	142	M8	M5	277	15	20	140	290
PPA80	20	70	28.5	33	200	200	142	M8	M5	289	15	20	150	310
PPA80	20	120	28.5	33	238	238	142	M12	M5	324	22	20	175	350

Lz (mm)	M (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)
28	211	27	80	30	51
33	211	30	80	30	51
36	211	36	80	30	51
43	246	44	80	30	62
45	246	51	80	30	62
51	246	64	80	30	62
68	343	85	80	30	74
71	343	105	80	30	74
82	343	123	80	30	74



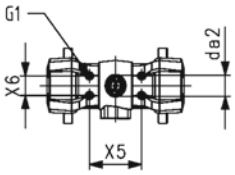
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
FO (Fail safe to open)
With backing flanges PP-GF JIS with PP-H
Without manual override
4.2 bar control pressure

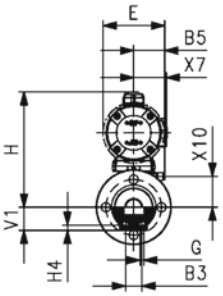
Model:

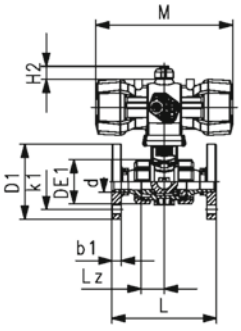
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible







d (mm)	PN (bar)	DN (mm)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	10	15	185	**199 255 443**	1	1.700	**199 255 453**	1	1.700
25	10	20	350	**199 255 444**	1	1.900	**199 255 454**	1	1.900
32	10	25	700	**199 255 445**	1	2.100	**199 255 455**	1	2.100
50	10	40	1600	**199 255 447**	1	3.900	**199 255 457**	1	3.900
63	10	50	3100	**199 255 448**	1	4.900	**199 255 458**	1	4.900
40	10	32	1000	**199 255 446**	1	3.400	**199 255 456**	1	3.400
90	10	80	7000	**199 255 450**	1	11.200	**199 255 460**	1	11.200
75	10	65	5000	**199 255 449**	1	8.600	**199 255 459**	1	8.600
110	10	100	11000	**199 255 451**	1	16.600	**199 255 461**	1	16.600

Actuator	b1 (mm)	B3 (mm)	B5 (mm)	D1 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	k1 (mm)	L (mm)
PPA15	12	25	16.2	95	33	50	94	M6	M5	168	20	12	70	130
PPA15	12	25	17.5	105	33	58	94	M6	M5	172	20	12	75	150
PPA15	14	25	17.5	115	33	68	94	M6	M5	178	20	12	90	160
PPA40	16	45	23.3	140	33	84	120	M8	M5	207	20	15	100	180
PPA40	18	45	24.3	165	33	124	120	M8	M5	213	20	15	105	200
PPA40	16	45	23.3	150	33	97	120	M8	M5	228	20	15	120	230
PPA80	20	70	28.5	166	33	166	142	M8	M5	277	20	15	140	290
PPA80	18	70	28.5	200	33	200	142	M8	M5	289	20	15	150	310
PPA80	20	120	28.5	238	33	238	142	M12	M5	324	20	22	175	350

Lz (mm)	M (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)
28	211	27	80	30	51	38.0
33	211	30	80	30	51	41.9
36	211	36	80	30	51	47.0
43	246	44	80	30	62	53.5
45	246	51	80	30	62	62.8
51	246	64	80	30	62	77.0
68	343	85	80	30	74	119.0
71	343	105	80	30	74	131.0
82	343	123	80	30	74	145.0



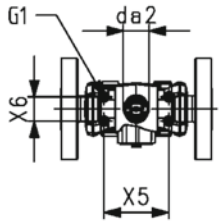
PROGEF Standard PP-H Ball valve type 546 Pro with PPA
DA (Double Acting)
With backing flanges PP-H JIS
Without manual override
4.2 bar control pressure

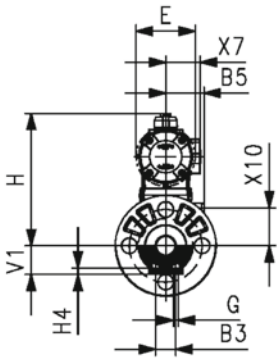
Model:

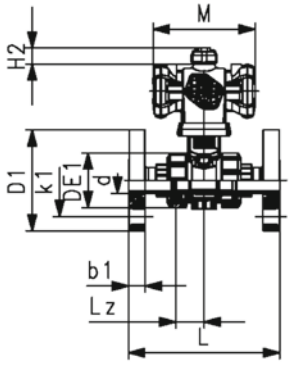
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible







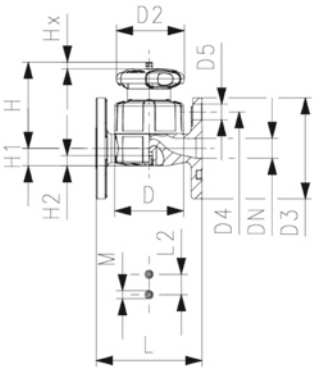
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	½	10	185	**199 255 463**	1	1.700	**199 255 473**	1	1.700
25	20	¾	10	350	**199 255 464**	1	1.900	**199 255 474**	1	1.900
32	25	1	10	700	**199 255 465**	1	2.100	**199 255 475**	1	2.100
40	32	1 ¼	10	1000	**199 255 466**	1	3.400	**199 255 476**	1	3.400
50	40	1 ½	10	1600	**199 255 467**	1	3.900	**199 255 477**	1	3.900
63	50	2	10	3100	**199 255 468**	1	4.900	**199 255 478**	1	4.900
75	65	2 ½	10	5000	**199 255 469**	1	7.500	**199 255 479**	1	7.500
90	80	3	10	7000	**199 255 470**	1	10.500	**199 255 480**	1	10.500
110	100	4	10	11000	**199 255 471**	1	14.800	**199 255 481**	1	14.800

d (mm)	Actuator	b1 (mm)	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	D1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)
20	PPA15	12	25	16.2	33	50	95	94	M6	M5	168	20	12	130	28
25	PPA15	14	25	17.5	33	58	105	94	M6	M5	172	20	12	150	33
32	PPA15	12	25	17.5	33	68	115	94	M6	M5	178	20	12	160	36
40	PPA40	16	45	23.3	33	84	140	120	M8	M5	207	20	15	180	43
50	PPA40	16	45	23.3	33	97	150	120	M8	M5	213	20	15	200	45
63	PPA40	18	45	24.3	33	124	165	120	M8	M5	228	20	15	230	51
75	PPA40	18	70	28.5	33	166	166	142	M8	M5	277	20	15	290	68
90	PPA40	20	70	28.5	33	200	200	142	M8	M5	289	20	15	310	71
110	PPA80	20	120	28.5	33	238	238	142	M12	M5	324	20	22	350	82

d (mm)	M (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)
20	159	27	80	30	51	38.0
25	159	30	80	30	51	41.9
32	159	36	80	30	51	47.0
40	184	44	80	30	62	53.5
50	184	51	80	30	62	62.8
63	184	64	80	30	62	77.0
75	184	85	80	30	74	119.0
90	184	105	80	30	74	131.0
110	261	123	80	30	74	145.0

Diaphragm valves type 517





PROGEF Plus oil free
Diaphragm valve type 517
With fixed flanges PP-H JIS

Model:

- Material: PP-H/oil free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

* O-Ring material: FKM

Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
½	15	10	125	**167 517 922**	0.426	**167 517 972**	0.434
¾	20	10	271	**167 517 923**	0.504	**167 517 973**	0.514
1	25	10	481	**167 517 924**	1.149	**167 517 974**	1.168
1 ¼	32	10	759	**167 517 925**	1.443	**167 517 975**	1.462
1 ½	40	10	1263	**167 517 926**	2.420	**167 517 976**	2.449
2	50	10	1728	**167 517 927**	3.055	**167 517 977**	3.082

Size (inch)	D (mm)	D2 (mm)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)
½	65	65	95	70	15	73	14	12	110	25	M6	7
¾	80	65	100	75	15	81	18	12	120	25	M6	10
1	88	87	125	90	19	107	22	12	130	25	M6	13
1 ¼	101	87	135	100	19	115	26	15	180	45	M8	15
1 ½	117	135	140	105	19	148	32	15	180	45	M8	19
2	144	135	155	120	19	166	39	15	210	45	M8	25

Diaphragm valves pneumatic DIASTAR Six



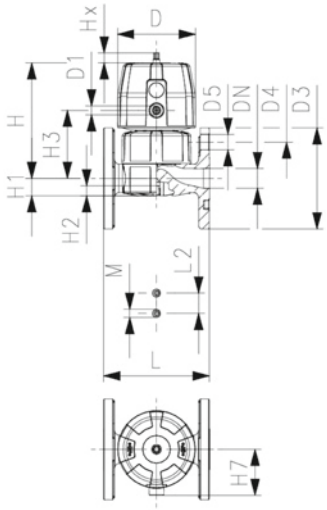
PROGEF Standard
Diaphragm valve DIASTAR Six
FC (Fail safe to close)
With fixed flanges PP-H JIS

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve



Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
¾	20	6	271	**167 617 913**	1.023
1	25	6	481	**167 617 914**	1.263
1 ¼	32	6	759	**167 617 915**	2.082
1 ½	40	6	960	**167 617 916**	2.570
2	50	6	1181	**167 617 917**	3.432

Size (inch)	D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)
¾	96	⅛	100	75	15	132	18	12	73	57	120	25	M6	10
1	96	⅛	125	90	19	143	22	12	84	69	130	25	M6	13
1 ¼	120	⅛	135	100	19	173	26	15	99	69	180	45	M8	14
1 ½	120	⅛	140	105	19	193	32	15	119	69	180	45	M8	16
2	120	⅛	155	120	19	205	39	15	132	69	210	45	M8	16

Diaphragm valves pneumatic DIASTAR Ten



PROGEF Standard Diaphragm valve DIASTAR Ten
DA (Double acting)
With fixed flanges PP-H JIS

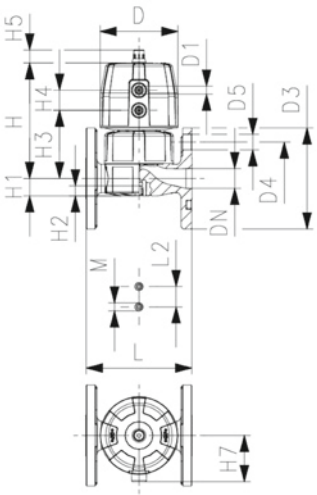
Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**167 657 912**	0.554	**167 657 932**	0.562
25	20	¾	10	10*	271	**167 657 913**	0.888	**167 657 933**	0.898
32	25	1	10	10*	481	**167 657 914**	1.125	**167 657 934**	1.144
40	32	1 ¼	10	10*	759	**167 657 915**	1.812	**167 657 935**	1.831
50	40	1 ½	10	10*	1263	**167 657 916**	2.868	**167 657 936**	2.897
63	50	2	10	10*	1728	**167 657 917**	3.513	**167 657 937**	3.540

D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
68	⅛	95	70	15	101	14	12	60	24	16	57	110	25	M6
96	⅛	100	75	15	132	18	12	73	25	16	57	120	25	M6
96	⅛	125	90	19	143	22	12	84	25	16	69	130	25	M6
120	⅛	135	100	19	173	26	15	99	26	26	88	180	45	M8
150	¼	140	105	19	214	32	15	119	36	26	103	180	45	M8
150	¼	155	120	19	226	39	15	132	36	26	103	210	45	M8

Lift = Hx (mm)
7
10
13
15
19
23



PROGEF Standard Diaphragm valve DIASTAR Ten
FO (Fail safe to open)
With fixed flanges PP-H JIS

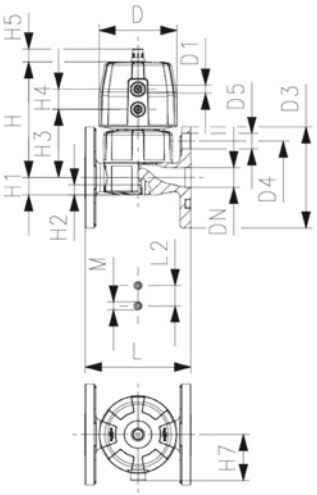
Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**167 647 912**	0.570	**167 647 932**	0.578
25	20	¾	10	10*	271	**167 647 913**	0.924	**167 647 933**	0.934
32	25	1	10	10*	481	**167 647 914**	1.155	**167 647 934**	1.174
40	32	1 ¼	10	10*	759	**167 647 915**	1.872	**167 647 935**	1.891
50	40	1 ½	10	10*	1263	**167 647 916**	3.618	**167 647 936**	3.647
63	50	2	10	10*	1728	**167 647 917**	4.263	**167 647 937**	4.290

D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
68	⅛	95	70	15	101	14	12	60	24	16	57	110	25	M6
96	⅛	100	75	15	132	18	12	73	25	16	57	120	25	M6
96	⅛	125	90	19	143	22	12	84	25	16	69	130	25	M6
120	⅛	135	100	19	173	26	15	99	26	26	88	180	45	M8
150	¼	140	105	19	214	32	15	119	36	26	103	180	45	M8
150	¼	155	120	19	226	39	15	132	36	26	103	210	45	M8

Lift = Hx (mm)
7
10
13
15
19
23



PROGEF Standard Diaphragm valve DIASTAR Ten
FC (Fail safe to close)
With fixed flanges PP-H JIS

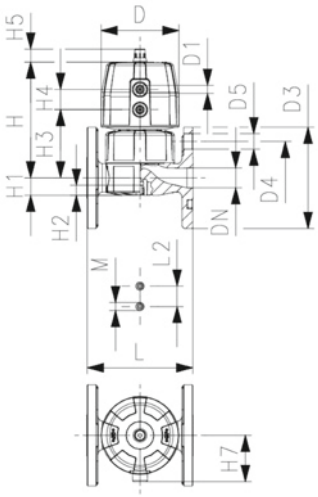
Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**167 627 912**	0.620	**167 627 932**	0.628
25	20	¾	10	10*	271	**167 627 913**	1.098	**167 627 933**	1.108
32	25	1	10	10*	481	**167 627 914**	1.335	**167 627 934**	1.354
40	32	1 ¼	10	10*	759	**167 627 915**	2.232	**167 627 935**	2.251
50	40	1 ½	10	10*	1263	**167 627 916**	3.708	**167 627 936**	3.737
63	50	2	10	6*	1728	**167 627 917**	4.353	**167 627 937**	4.380

D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
68	⅛	95	70	15	101	14	12	60	24	16	43	110	25	M6
96	⅛	100	75	15	132	18	12	73	25	16	57	120	25	M6
96	⅛	125	90	19	143	22	12	84	25	16	69	130	25	M6
120	⅛	135	100	19	173	26	15	99	26	26	69	180	45	M8
150	¼	140	105	19	193	32	15	119	36	26	88	180	45	M8
150	¼	155	120	19	205	39	15	132	36	26	88	210	45	M8

Lift = Hx (mm)
7
10
13
15
19
23

Diaphragm valves pneumatic DIASTAR TenPlus



PROGEF Standard Diaphragm valve DIASTAR TenPlus
FC (Fail safe to close) low pressure
With fixed flanges PP-H JIS

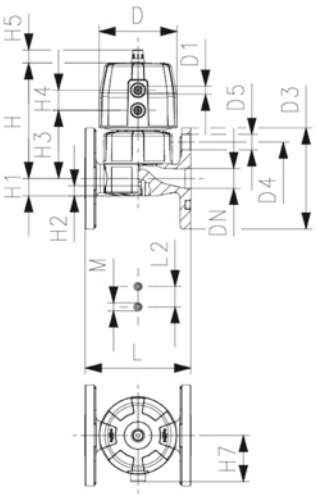
Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **both sides**
* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	8*	125	**167 687 912**	1.020	**167 687 932**	1.028
25	20	¾	10	8*	271	**167 687 913**	1.098	**167 687 933**	1.108
32	25	1	10	8*	481	**167 687 914**	1.929	**167 687 934**	1.948
40	32	1 ¼	10	8*	759	**167 687 915**	3.302	**167 687 935**	3.321
50	40	1 ½	10	8*	1263	**167 687 916**	5.116	**167 687 936**	5.145
63	50	2	10	6*	1728	**167 687 917**	5.760	**167 687 937**	5.787

D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
96	⅛	95	70	15	127	14	12	68	25	16	57	110	25	M6
96	⅛	100	75	15	132	18	12	73	25	16	57	120	25	M6
120	⅛	125	90	19	167	22	12	93	26	26	69	130	25	M6
150	¼	135	100	19	196	26	15	101	36	26	88	180	45	M8
180	¼	140	105	19	239	32	15	124	37	26	103	180	45	M8
180	¼	155	120	19	251	39	15	137	37	26	103	210	45	M8

Lift = Hx (mm)
7
10
13
15
19
23

PROGEF Plus

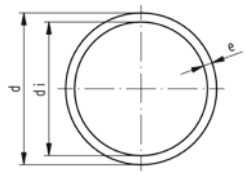


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Pipes





PROGEF Plus pipe
SDR11/PN10/S5

Model:

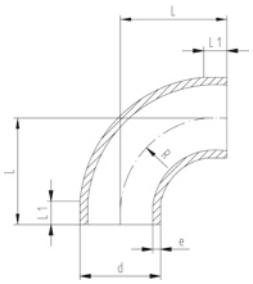
- Material: PP-H - homopolymer
- dimensions: acc. to DIN 8077/78
- Colour: light grey RAL 7032
- Pipe length: 5000mm, with plain ends
- both ends closed with caps, double bagged into foil
- **Note 1**: DIBT Z-40.23-4 Approval
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

	d (mm)	PN (bar)	Code	Weight (kg/m)	e (mm)
note 1	20	10	**167 481 711**	0.107	1.9
note 1	25	10	**167 481 712**	0.164	2.3
note 1	32	10	**167 481 713**	0.261	2.9
note 1	40	10	**167 481 714**	0.412	3.7
note 1	50	10	**167 481 715**	0.638	4.6
note 1	63	10	**167 481 716**	1.010	5.8
note 1	75	10	**167 481 717**	1.410	6.8
note 1	90	10	**167 481 718**	2.030	8.2
note 1	110	10	**167 481 719**	3.010	10.0
note 1	125	10	**167 481 720**	3.910	11.4
note 1	140	10	**167 481 721**	4.870	12.7
	180	10	**167 481 723**	8.070	16.4
	160	10	**167 481 722**	6.380	14.6
	200	10	**167 481 724**	9.950	18.2
	225	10	**167 481 725**	12.600	20.5
	250	10	**167 481 726**	15.500	22.7
	280	10	**167 481 727**	19.400	25.4
	315	10	**167 481 728**	24.600	28.6
	355	10	**167 481 730**	31.200	32.2
	400	10	**167 481 731**	39.600	36.3

Butt fusion fittings







PROGEF Plus Bend 90°
SDR11/PN10

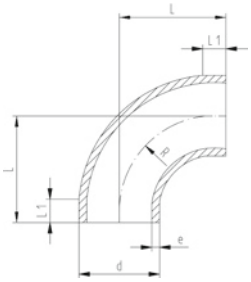
Model:

- Material: PP-H
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207
- Cleaned and double bagged
- New code numbers in dimensions d125-d315 not available yet, please refer to the existing code numbers 727018690-727018452.

d (mm)	PN (bar)	FM	Type	Code	L (mm)	L1 (mm)	R (mm)	e (mm)
20	10	IR	1	**727 018 681**	38	23	15.00	1.90
25	10	IR	1	**727 018 682**	42	23	19.00	2.30
32	10	IR	1	**727 018 683**	46	22	24.00	2.90
40	10	IR	1	**727 018 684**	51	21	30.00	3.70
50	10	IR	1	**727 018 685**	58	21	37.00	4.60
63	10	IR	1	**727 018 686**	66	21	45.00	5.80
75	10	IR	1	**727 018 472**	75	21	71.25	7.25
90	10	IR	1	**727 018 473**	90	22	85.50	8.75
110	10	IR	1	**727 018 474**	110	25	104.50	10.60
125	10	IR	2	**727 018 875**	145	34	127.00	11.40
140	10	IR	2	**727 018 876**	162	38	142.00	12.70
160	10	IR	2	**727 018 877**	183	40	162.00	14.60
180	10	IR	2	**727 018 878**	200	38	182.00	16.40
200	10	IR	2	**727 018 879**	220	40	202.00	18.20
225	10	IR	2	**727 018 880**	245	41	228.00	20.50
250	10	IR	2	**727 018 881**	280	51	253.00	22.70
280	10	IR	2	**727 018 882**	310	52	283.00	25.40
315	10	IR	2	**727 018 883**	350	61	318.00	28.60







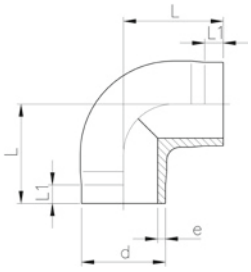
PROGEF Plus Bend 90°
SDR11/PN10

Model:

- Material: PP-H
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207
- Cleaned and double bagged

d (mm)	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	R (mm)	e (mm)
125	10	**727 018 690**	0.818	125	28	116.00	11.4
140	10	**727 018 691**	1.148	140	33	131.00	12.7
160	10	**727 018 692**	1.699	160	33	151.00	14.6
180	10	**727 018 693**	2.394	180	33	171.00	16.4
200	10	**727 018 694**	3.264	200	33	190.00	18.2
225	10	**727 018 695**	4.535	220	33	210.00	20.5
250	10	**727 018 450**	6.317	256	48	232.00	22.7
280	10	**727 018 451**	9.500	286	48	262.00	25.4
315	10	**727 018 452**	15.000	321	48	297.00	28.6





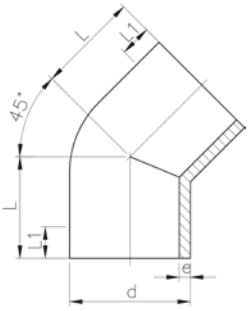
PROGEF Plus Elbow 90°
SDR11/PN10

Model:

- Material: PP-H
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207
- Cleaned and double bagged

d (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
20	10	IR	**727 108 581**	0.008	38	25	1.9
25	10	IR	**727 108 582**	0.010	42	26	2.3
32	10	IR	**727 108 583**	0.024	46	27	3.0
40	10	IR	**727 108 584**	0.050	51	22	3.7
50	10	IR	**727 108 585**	0.079	58	23	4.6
63	10	IR	**727 108 586**	0.138	66	21	5.8





PROGEF Plus Elbow 45°
SDR11/PN10

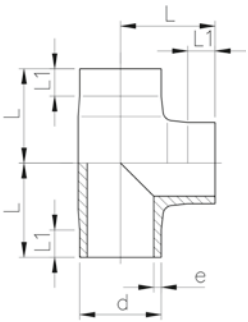
Model:

- Cleaned and double bagged
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible
- Long version for d250, d280 and d315

[1] Material: PP-R
Material: PP-H

	d (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
	20	10	IR	**727 158 581**	0.006	32	24	1.9
	25	10	IR	**727 158 582**	0.012	34	25	2.3
	32	10	IR	**727 158 583**	0.021	36	25	3.0
	40	10	IR	**727 158 584**	0.035	39	25	3.7
	50	10	IR	**727 158 585**	0.057	42	26	4.6
	63	10	IR	**727 158 586**	0.098	47	29	5.8
	75	10	IR	**727 158 587**	0.139	49	29	6.9
	90	10	IR	**727 158 588**	0.227	57	34	8.2
	110	10	IR	**727 158 589**	0.421	70	43	10.0
	125	10	IR	**727 158 590**	0.607	79	48	11.4
	140	10	IR	**727 158 591**	0.860	88	55	12.7
	160	10	IR	**727 158 592**	1.260	100	60	14.6
	200	10	IR	**727 158 594**	2.418	124	75	18.2
	225	10	IR	**727 158 595**	3.400	140	85	20.5
1	250	10	IR	**727 158 596**	7.772	225	133	22.7
1	280	10	IR	**727 158 597**	10.170	235	143	25.4
1	315	10	IR	**727 158 598**	13.656	255	154	28.6





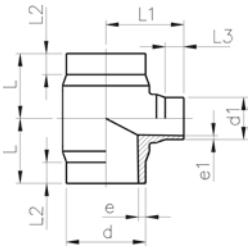
PROGEF Plus Tee 90° equal
SDR11/PN10

Model:

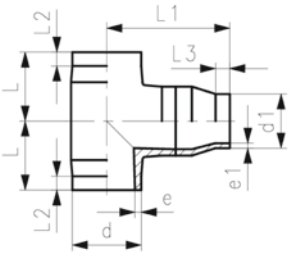
- Cleaned and double bagged
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible
- Material: PP-H

d (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
20	10	IR	**727 208 581**	0.090	38	20.6	2.10
25	10	IR	**727 208 582**	0.019	42	20.6	2.55
32	10	IR	**727 208 583**	0.033	46	20.6	3.15
40	10	IR	**727 208 584**	0.063	51	23.0	3.70
50	10	IR	**727 208 585**	0.106	58	22.0	4.60
63	10	IR	**727 208 586**	0.186	66	20.0	5.80
75	10	IR	**727 208 587**	0.294	75	20.0	6.90
90	10	IR	**727 208 588**	0.526	90	20.0	8.20
110	10	IR	**727 208 589**	0.935	110	20.0	10.00
125	10	IR	**727 208 590**	1.357	125	25.0	11.40
140	10	IR	**727 208 591**	2.209	140	28.0	12.70
160	10	IR	**727 208 592**	2.900	160	28.0	14.60
180	10	IR	**727 208 693**	5.475	215	94.0	16.40
200	10	IR	**727 208 594**	5.570	200	35.0	18.20
225	10	IR	**727 208 595**	7.882	220	35.0	20.50
250	10	IR	**727 208 696**	10.400	227	68.0	18.20
280	10	IR	**727 208 697**	15.170	267	87.0	25.40
315	10	IR	**727 208 698**	20.330	283	86.0	28.60





1



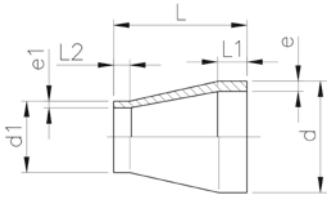
PROGEF Plus Tee 90° reduced
SDR11/PN10

Model:

- Cleaned and double bagged
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible
- Material: PP-H

	d (mm)	d1 (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	e (mm)	e1 (mm)
	63	32	10	IR	**727 208 251**	0.159	65	70	25	25	5.8	2.9
	63	40	10	IR	**727 208 250**	0.175	65	70	25	25	5.8	3.7
	63	50	10	IR	**727 208 252**	0.174	65	70	25	25	5.8	4.6
	75	32	10	IR	**727 208 253**	0.240	70	75	25	25	6.8	2.9
	75	50	10	IR	**727 208 254**	0.248	70	75	25	25	6.8	4.6
	75	63	10	IR	**727 208 255**	0.260	70	75	25	25	6.8	5.8
	90	50	10	IR	**727 208 257**	0.410	80	85	25	25	8.2	4.6
	90	63	10	IR	**727 208 258**	0.431	80	85	25	25	8.2	5.8
	90	75	10	IR	**727 208 259**	0.435	80	85	25	25	8.2	6.8
	110	32	10	IR	**727 208 260**	0.648	90	95	30	25	10.0	2.9
	110	50	10	IR	**727 208 261**	0.662	90	95	30	25	10.0	4.6
	110	63	10	IR	**727 208 262**	0.669	90	95	30	25	10.0	5.8
	110	75	10	IR	**727 208 263**	0.689	90	95	30	25	10.0	6.8
	110	90	10	IR	**727 208 264**	0.694	90	95	30	25	10.0	8.2
1	125	63	10	IR	**727 208 265**	1.680	125	230	25	16	11.4	5.8
1	125	90	10	IR	**727 208 466**	1.700	125	225	25	40	11.4	8.2
1	125	110	10	IR	**727 208 267**	1.700	125	217	25	30	11.4	10.0
1	140	75	10	IR	**727 208 468**	2.400	140	245	28	41	11.4	10.0
1	140	90	10	IR	**727 208 469**	2.500	140	240	28	40	12.7	6.8
1	140	110	10	IR	**727 208 270**	2.380	140	242	28	33	12.7	10.0
	160	125	10	IR	**727 208 275**	3.500	160	272	28	32	14.6	11.4
	200	160	10	IR	**727 208 285**	6.600	200	332	35	40	18.2	14.6
	200	180	10	IR	**727 208 486**	6.900	200	335	35	45	12.7	8.2
	160	63	10	IR	**727 208 271**	2.125	142	135	50	30	14.6	5.8
	160	75	10	IR	**727 208 272**	2.140	142	135	50	30	14.6	6.8
	160	90	10	IR	**727 208 273**	2.164	142	135	50	30	14.6	8.2
	160	110	10	IR	**727 208 274**	2.200	142	135	50	30	14.6	10.0
	225	90	10	IR	**727 208 288**	4.597	155	165	40	30	20.5	8.2
	225	110	10	IR	**727 208 289**	4.524	155	165	40	30	20.5	10.0
	225	160	10	IR	**727 208 291**	4.710	155	165	40	30	20.5	14.6
1	250	160	10	IR	**727 208 493**	4.530	227	387	68	53	22.7	14.6
1	63	25	10	IR	**727 208 390**	0.190	65	112	25	20	5.8	2.3
1	90	32	10	IR	**727 208 392**	0.470	80	142	25	20	8.2	2.9
1	180	110	10	IR	**727 208 399**	6.490	215	355	97	40	16.4	10.0
1	315	110	10	IR	**727 208 400**	26.460	283	416	86	30	28.6	10.6
1	180	63	10	IR	**727 208 398**	6.640	215	299	97	28	16.4	6.2
1	315	160	10	IR	**727 208 401**	26.950	283	421	86	38	28.6	15.4
1	315	225	10	IR	**727 208 402**	25.440	283	508	86	60	28.6	20.5
1	315	250	10	IR	**727 208 403**	25.440	283	502	86	63	28.6	22.7





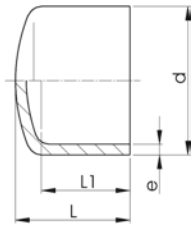
PROGEF Plus Reducer
SDR11/PN10

Model:

- Cleaned and double bagged
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible
- Material: PP-H

d (mm)	d1 (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	e1 (mm)
25	20	10	IR	**727 908 637**	0.008	50	20	20	2.3	1.9
32	20	10	IR	**727 908 642**	0.012	50	20	20	2.9	1.9
32	25	10	IR	**727 908 641**	0.013	50	20	20	2.9	2.3
40	20	10	IR	**727 908 648**	0.015	58	20	23	3.7	1.9
40	25	10	IR	**727 908 647**	0.017	55	20	20	3.7	2.3
40	32	10	IR	**727 908 646**	0.019	55	20	20	3.7	2.9
50	25	10	IR	**727 908 654**	0.026	60	20	20	4.6	2.3
50	32	10	IR	**727 908 653**	0.026	60	20	20	4.6	2.9
50	40	10	IR	**727 908 652**	0.032	60	20	20	4.6	3.7
63	32	10	IR	**727 908 660**	0.046	65	20	20	5.8	2.9
63	40	10	IR	**727 908 659**	0.048	65	20	20	5.8	3.7
63	50	10	IR	**727 908 658**	0.051	65	20	20	5.8	4.6
75	40	10	IR	**727 908 666**	0.063	68	20	20	6.8	3.7
75	50	10	IR	**727 908 665**	0.072	65	20	20	6.8	4.6
75	63	10	IR	**727 908 664**	0.079	65	20	20	6.8	5.8
90	63	10	IR	**727 908 671**	0.119	75	22	19	8.2	5.8
90	75	10	IR	**727 908 670**	0.131	75	21	19	8.2	6.8
110	63	10	IR	**727 908 672**	0.201	90	28	28	10.6	6.2
110	75	10	IR	**727 908 677**	0.211	90	28	18	10.0	6.8
110	90	10	IR	**727 908 676**	0.231	90	28	20	10.0	8.2
125	110	10	IR	**727 908 680**	0.325	100	31	30	11.4	10.0
140	110	10	IR	**727 908 685**	0.430	110	33	29	12.7	10.0
140	125	10	IR	**727 908 684**	0.468	110	34	30	12.7	11.4
160	110	10	IR	**727 908 690**	0.595	120	38	27	14.6	10.0
160	140	10	IR	**727 908 688**	0.652	120	40	35	14.6	12.7
180	90	10	IR	**727 908 780**	0.800	145	50	40	16.4	8.2
180	110	10	IR	**727 908 781**	1.010	150	50	40	16.4	10.0
180	125	10	IR	**727 908 782**	0.985	145	52	40	16.4	11.4
180	140	10	IR	**727 908 783**	0.995	135	51	47	16.4	12.7
180	160	10	IR	**727 908 784**	1.020	135	55	52	16.4	14.6
200	160	10	IR	**727 908 692**	1.120	145	50	40	18.2	14.6
200	180	10	IR	**727 908 785**	1.300	145	50	45	18.2	16.4
225	110	10	IR	**727 908 695**	1.489	160	55	35	20.5	10.0
225	160	10	IR	**727 908 696**	1.590	160	55	40	20.5	14.6
225	180	10	IR	**727 908 786**	1.770	163	60	58	20.5	16.4
225	200	10	IR	**727 908 697**	1.650	160	55	50	20.5	18.2
250	160	10	IR	**727 908 787**	2.140	170	63	53	22.7	14.6
250	225	10	IR	**727 908 788**	2.750	180	65	65	22.7	20.5
280	225	10	IR	**727 908 789**	3.425	203	72	57	25.4	20.5
280	250	10	IR	**727 908 790**	1.980	206	75	60	25.4	22.7
315	225	10	IR	**727 908 791**	5.110	237	84	60	28.6	20.5
315	250	10	IR	**727 908 792**	5.105	231	86	63	28.6	22.7
315	280	10	IR	**727 908 793**	5.130	222	80	70	28.6	25.4
125	63	10	IR	**727 908 681**	1.680	114	35	28	12.0	6.2





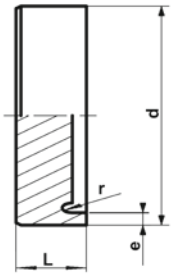
PROGEF Plus End cap SDR11/PN10

Model:

- Cleaned and double bagged
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible
- Material: PP-H

d (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
20	10	IR	**727 968 961**	0.005	49	42	1.9
25	10	IR	**727 968 962**	0.007	52	42	2.3
32	10	IR	**727 968 963**	0.016	57	47	2.9
40	10	IR	**727 968 964**	0.023	64	51	3.7
50	10	IR	**727 968 965**	0.048	72	59	4.6
63	10	IR	**727 968 966**	0.087	86	67	5.8
75	10	IR	**727 968 967**	0.138	94	73	6.8
90	10	IR	**727 968 968**	0.222	112	83	8.2
110	10	IR	**727 968 969**	0.375	124	90	10.0
125	10	IR	**727 968 970**	0.520	130	94	11.4
140	10	IR	**727 968 971**	0.695	142	99	12.7
160	10	IR	**727 968 972**	1.040	162	109	14.6
180	10	IR	**727 968 973**	1.375	170	113	16.4
200	10	IR	**727 968 974**	1.860	179	117	18.2
225	10	IR	**727 968 975**	2.625	203	127	20.5





PROGEF Plus End cap SDR11/PN10 short

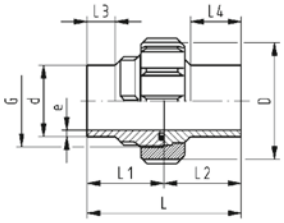
Model:

- Conventional butt-welding according to DVS 2207
- Cleaned and double bagged
- Machined
- Material: PP-H

d (mm)	PN (bar)	Code	Weight (kg)	L (mm)	e (mm)
250	10	**727 968 896**	1.900	60	22.7
280	10	**727 968 897**	2.600	65	25.4
315	10	**727 968 898**	3.600	70	28.6

Butt fusion unions and o-rings





PROGEF Plus Union
SDR11/PN10

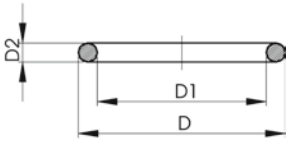
Model:

- Cleaned and double bagged
- With butt fusion ends
- IR = Infrared welding compatible
- Material: PP-H

d (mm)	D (mm)	PN (bar)	FM	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	48	10	IR	**727 518 606**	0.048	**727 528 606**	0.047
25	58	10	IR	**727 518 607**	0.073	**727 528 607**	0.074
32	65	10	IR	**727 518 608**	0.100	**727 528 608**	0.100
40	79	10	IR	**727 518 609**	0.141	**727 528 609**	0.142
50	91	10	IR	**727 518 610**	0.190	**727 528 610**	0.191
63	111	10	IR	**727 518 611**	0.329	**727 528 611**	0.333
75	138	10	IR	**727 518 712**	0.516	**727 528 712**	0.520
90	161	10	IR	**727 518 713**	0.533	**727 528 713**	0.539
110	191	10	IR	**727 518 714**	0.754	**727 528 714**	0.758

d (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	Thread size	e (mm)	Size	O-Ring EPDM	O-Ring FKM
20	107.0	54.0	53.0	26	1	1.9	20,22 x 3,53	748.413.006	749.413.006
25	113.0	57.0	56.0	26	1 1/4	2.3	28,17 x 3,53	748.413.007	749.413.007
32	119.0	60.0	59.0	26	1 1/2	2.9	32,93 x 3,53	748.413.008	749.413.008
40	126.0	63.0	63.0	26	2	3.7	40,65 x 5,34	748.413.009	749.413.009
50	131.0	66.0	66.0	26	2 1/4	4.6	47,00 x 5,34	748.413.010	749.413.010
63	137.0	69.0	68.0	26	2 3/4	5.8	59,69 x 5,34	748.413.011	749.413.011
75	134.5	68.5	66.0	26	S110x5	6.8	66,04 x 5,34	748.410.024	749.410.024
90	134.5	68.5	66.0	26	S110x5	8.2	74,63 x 5,34	748.410.383	749.410.383
110	139.5	74.0	65.5	33	S130x5	10.0	94,62 x 5,34	748.410.248	749.410.248





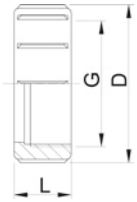
O-ring silicone free

Model:

- Silicone free/paint-compatible
- Hardness approx. 65° Shore
- For unions
- Double bagged, 2 pcs in bag

d (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)
16	**748 413 005**	0.002	**749 413 005**	0.002	21	16	2.62
20	**748 413 006**	0.002	**749 413 006**	0.003	27	20	3.53
25			**749 413 007**	0.002	35	28	3.53
32	**748 413 008**	0.003	**749 413 008**	0.003	40	33	3.53
40	**748 413 009**	0.003	**749 413 009**	0.006	51	41	5.33
50	**748 413 010**	0.005	**749 413 010**	0.007	58	47	5.33
63	**748 413 011**	0.005	**749 413 011**	0.010	70	60	5.33
75			**749 413 014**	0.012	93	82	5.33
90			**749 413 015**	0.015	112	101	5.33
110			**749 413 016**	0.031	134	120	6.99





PROGEF Standard Union nut PP-H

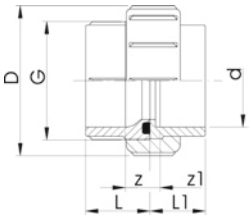
Model:

- Material: PP glass-fibre reinforced
- d75-d110 new thread design since 2022

PN (bar)	Butt Fusion d (mm)	Size	Socket Fusion d (mm)	Code	Weight (kg)	L (mm)	D (mm)
10	16	3/4	16	**727 890 405**	0.007	21	35
10	20	1	20	**727 890 406**	0.023	21	47
10	25	1 1/4	25	**727 890 407**	0.035	23	56
10	32	1 1/2	32	**727 890 408**	0.044	24	63
10	40	2	40	**727 890 409**	0.044	27	77
10	50	2 1/4	50	**727 890 410**	0.062	30	84
10	63	2 3/4	63	**727 890 411**	0.119	39	111
10	110	S130x5	90	**727 890 113**	0.400	48	161
10		S155x5	110	**727 890 114**	0.499	52	191
10	75 - 90	S110x5	75	**727 890 112**	0.205	46	138

Socket fusion unions and o-rings





PROGEF Plus Union
PN10

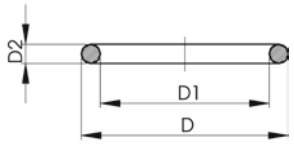
Model:

- Material: PP-H
- Fusion socket metric
- d75-110 with new thread geometry, now rated PN10 up to d110
- Jointing face: with O-ring
- Cleaned and double bagged

d (mm)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	**727 510 255**	0.020	**727 520 255**	0.020
20	10	**727 510 256**	0.041	**727 520 256**	0.039
25	10	**727 510 257**	0.064	**727 520 257**	0.063
32	10	**727 510 258**	0.079	**727 520 258**	0.079
40	10	**727 510 259**	0.137	**727 520 259**	0.137
50	10	**727 510 260**	0.135	**727 520 260**	0.180
63	10	**727 510 261**	0.251	**727 520 261**	0.312
75	10	**727 510 292**	0.427	**727 520 292**	0.432
90	10	**727 510 293**	0.617	**727 520 293**	0.625
110	10	**727 510 294**	1.161	**727 520 294**	1.009

d (mm)	L (mm)	L1 (mm)	D (mm)	Thread size	z (mm)	z1 (mm)	Size	O-Ring EPDM	O-Ring FKM
16	24	18	35	3/4	5	11	15,54 x 2,62	748.413.005	749.413.005
20	26	19	48	1	5	12	20,22 x 3,53	748.413.006	749.413.006
25	28	21	58	1 1/4	5	12	28,17 x 3,53	748.413.007	749.413.007
32	30	23	65	1 1/2	5	12	32,93 x 3,53	748.413.008	749.413.008
40	34	25	79	2	5	14	40,65 x 5,54	748.413.009	749.413.009
50	39	28	91	2 1/4	5	16	47,00 x 5,34	748.413.010	749.413.010
63	47	32	111	2 3/4	5	20	59,69 x 5,34	748.413.011	749.413.011
75	51	36	135	S110 x 5	3	18	74,63 x 5,34	748.410.383	749.410.383
90	55	42	158	S130 x 5	5	18	94,62 x 5,34	748.410.248	749.410.248
110	54	49	188	S155 x 5	6	12	114,7 x 6,99	748.410.384	749.410.384





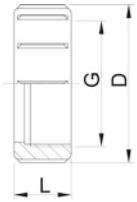
O-ring silicone free

Model:

- Silicone free/paint-compatible
- Hardness approx. 65° Shore
- For unions
- Double bagged, 2 pcs in bag

d (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)
16	**748 413 005**	0.002	**749 413 005**	0.002	21	16	2.62
20	**748 413 006**	0.002	**749 413 006**	0.003	27	20	3.53
25			**749 413 007**	0.002	35	28	3.53
32	**748 413 008**	0.003	**749 413 008**	0.003	40	33	3.53
40	**748 413 009**	0.003	**749 413 009**	0.006	51	41	5.33
50	**748 413 010**	0.005	**749 413 010**	0.007	58	47	5.33
63	**748 413 011**	0.005	**749 413 011**	0.010	70	60	5.33
75			**749 413 014**	0.012	93	82	5.33
90			**749 413 015**	0.015	112	101	5.33
110			**749 413 016**	0.031	134	120	6.99





PROGEF Standard Union nut PP-H

Model:

- Material: PP glass-fibre reinforced
- d75-d110 new thread design since 2022

PN (bar)	Butt Fusion d (mm)	Size	Socket Fusion d (mm)	Code	Weight (kg)	L (mm)	D (mm)
10	16	3/4	16	**727 890 405**	0.007	21	35
10	20	1	20	**727 890 406**	0.023	21	47
10	25	1 1/4	25	**727 890 407**	0.035	23	56
10	32	1 1/2	32	**727 890 408**	0.044	24	63
10	40	2	40	**727 890 409**	0.044	27	77
10	50	2 1/4	50	**727 890 410**	0.062	30	84
10	63	2 3/4	63	**727 890 411**	0.119	39	111
10	110	S130x5	90	**727 890 113**	0.400	48	161
10		S155x5	110	**727 890 114**	0.499	52	191
10	75 - 90	S110x5	75	**727 890 112**	0.205	46	138

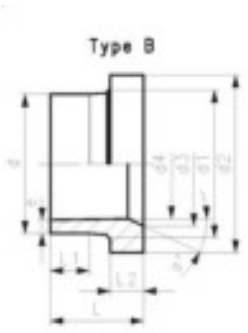
Butt fusion flange adaptors













PROGEF Plus Flange adaptor
SDR11/PN10 combined jointing face: flat and serrated

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR- Infrared welding compatible
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Suitable for butterfly valve type 567/578 and 038/039
- Gasket: profile flange gasket EPDM No. 48 44 17, FKM No. 49 44 17
- Cleaned and double bagged

d (mm)	DN (mm)	PN (bar)	FM	Type	Code	Weight (kg)
20	15	10	IR	A	**727 798 731**	0.015
25	20	10	IR	A	**727 798 732**	0.028
32	25	10	IR	A	**727 798 733**	0.042
40	32	10	IR	A	**727 798 734**	0.064
50	40	10	IR	A	**727 798 735**	0.094
63	50	10	IR	A	**727 798 736**	0.144
75	65	10	IR	B	**727 798 737**	0.243
90	80	10	IR	B	**727 798 738**	0.330
110	100	10	IR	B	**727 798 739**	0.444
125	100	10	IR	B	**727 798 740**	0.520
140	125	10	IR	B	**727 798 741**	0.800
160	150	10	IR	B	**727 798 017**	0.930
180	150	10	IR	B	**727 798 773**	1.026
200	200	10	IR	C	**727 798 774**	1.652
225	200	10	IR	C	**727 798 020**	2.100
250	250	10		C	**727 798 021**	2.630
280	250	10		C	**727 798 777**	2.784
315	300	10		C	**727 798 023**	4.800

d (mm)	DN (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	a
20	15	26	45		16	50	29	7	2.10	
25	20	32	58		20	52	27	9	2.30	
32	25	40	68		26	54	28	10	2.90	
40	32	49	78		32	56	25	11	3.70	
50	40	60	88		40	62	32	12	4.60	
63	50	75	102		49	68	38	14	6.20	
75	65	89	122	66	61	80	43	16	6.80	30
90	80	105	138	78	73	80	41	17	8.20	30
110	100	125	158	100	87	80	40	18	10.60	30
125	100	132	158	114	102	82	35	25	11.40	25
140	125	155	188	127	114	89	39	25	12.70	27
160	150	175	212	151	131	107	40	25	15.45	30
180	150	180	212	154	148	92	40	30	17.50	30
200	200	232	268	203	174	100	35	32	19.30	30
225	200	235	268	210	184	133	45	32	20.50	30
250	250	285	320	252	203	120	45	36	24.00	
280	250	291	320	265	228	120	45	37	26.80	30
315	300	338	370	300	256	150	50	52	30.20	22



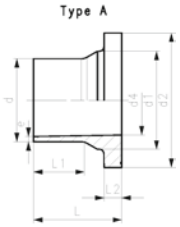


PROGEF Plus Flange adaptor PP-H ANSI
SDR11/PN10 Combined jointing face: flat and serrated

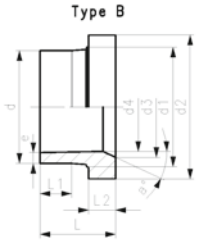
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR- Infrared welding compatible
- Suitable for flange connections to metric
- Injection moulded

Flange adapters are designed to work with most butterfly valves
For bigger dimensions, see flange adaptors in other chapters



d (mm)	DN (mm)	SDR	PN (bar)	FM	Type	Code	Weight (kg)
25	20	11	10	IR	A	**727 798 750**	0.022
32	25	11	10	IR	A	**727 798 751**	0.039
40	32	11	10	IR	A	**727 798 752**	0.056
50	40	11	10	IR	A	**727 798 753**	0.087
90	80	11	10	IR	B	**727 798 754**	0.310



d (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	a°
25	32	54		20	52	27	9	2.3	
32	40	63		26	54	28	10	2.9	
40	49	73		32	56	25	11	3.7	
50	60	82		40	62	32	12	4.6	
90	105	133	78	73	80	41	17	8.2	30



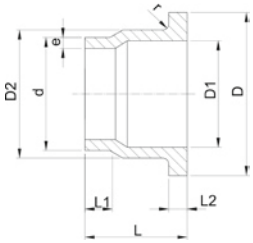
PROGEF Plus Outlet flange adaptor
SDR11/PN10 combined jointing face: flat and serrated

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- To wafer check valves type 369
- Cleaned and double bagged

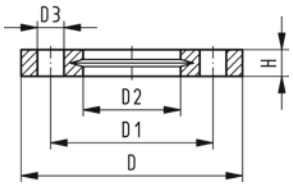
Attention:

- In conjunction with Outlet flange adaptors, **flange rings for socket systems** must be used.



d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	D (mm)	D1 (mm)	D2 (mm)	r (mm)	e (mm)
40	32	10	**727 808 134**	0.064	64	30	11	80	37	50	3	3.7
50	40	10	**727 808 135**	0.088	67	30	12	90	43	61	3	4.6
63	50	10	**727 808 136**	0.126	74	30	14	105	54	76	4	5.8
75	65	10	**727 808 137**	0.187	78	30	16	125	70	90	4	6.8
90	80	10	**727 808 138**	0.346	87	35	17	140	82	108	4	8.2
110	100	10	**727 808 139**	0.481	102	41	18	160	105	131	4	10.0
140	125	10	**727 808 141**	0.710	124	47	25	190	130	165	4	12.7
160	150	10	**727 808 142**	1.255	149	52	25	215	158	188	4	14.6
225	200	10	**727 808 145**	1.830	180	55	32	270	206	248	4	20.5
280	250	10	**727 808 147**	3.550	240	63	35	325	259	308	4	25.4
315	300	10	**727 808 148**	4.960	272	66	35	375	308	346	4	28.6





Flanges PP-V (full plastic)

Model:

- Full-plastic flange PP-GF (30 % glass-fibre reinforced)
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D2024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

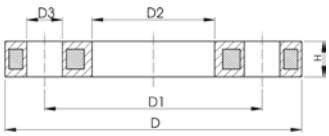
AL: number of holes

d (mm)	DN (mm)	d (inch)	PN (bar)	Bolt / circle	Design	Code	Weight (kg)
20	15		16	PN10	Butt/Socket	**727 700 406**	0.093
25	20		16	PN10	Butt/Socket	**727 700 407**	0.120
32	25		16	PN10	Butt/Socket	**727 700 408**	0.151
40	32		16	PN10	Butt/Socket	**727 700 409**	0.244
50	40		16	PN10	Butt/Socket	**727 700 410**	0.297
63	50		16	PN10	Butt/Socket	**727 700 411**	0.362
75	65		16	PN10	Butt/Socket	**727 700 412**	0.487
90	80		16	PN10	Butt	**727 700 513**	0.544
110	100		16	PN10	Butt	**727 700 514**	0.643
125	100		16	PN10	Butt	**727 700 515**	0.635
140	125		16	PN10	Butt	**727 700 516**	0.842
160	150	6	16	PN10/ class 150	Butt	**727 700 517**	1.200
180	150		16	PN10/ Class 150	Butt	**727 700 518**	1.200
200	200	8	16	PN10/ class 150	Butt	**727 700 519**	1.400
225	200	8	16	PN10/ class 150	Butt	**727 700 520**	1.400
250	250		10	PN10	Butt	**727 700 521**	2.052
280	250		10	PN10	Butt	**727 700 522**	1.700
315	300		10	PN10	Butt	**727 700 523**	2.400
355	350		10	PN10	Butt	**727 700 524**	4.440
400	400		10	PN10	Butt	**727 700 525**	5.624

d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	Hmax (mm)	AL	M
20	95	65	28	14	16	4	M12
25	105	75	34	14	17	4	M12
32	115	85	42	14	18	4	M12
40	140	100	51	18	20	4	M16
50	150	110	62	18	22	4	M16
63	165	125	78	18	24	4	M16
75	185	145	92	18	26	4	M16
90	200	160	108	18	27	8	M16
110	220	180	128	18	28	8	M16
125	220	180	135	18	28	8	M16
140	250	210	158	18	30	8	M16
160	285	240	178	22	32	8	M20
180	285	240	188	22	32	8	M20
200	340	297	235	22	34	8	M20
225	340	297	238	22	34	8	M20
250	395	350	288	22	38	12	M20
280	395	350	294	22	38	12	M20
315	445	400	338	22	42	12	M20
355	515	460	376	22	46	16	M20
400	574	515	430	26	50	16	M24







Flanges PP-Steel

Model:

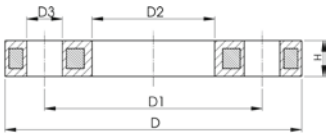
- Material: PP (30% glass-fibre reinforced) with steel ring
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D4024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes
* FM 1613 approved - 15 bar
** Profiled loose flange

	d (mm)	Size (inch)	DN (mm)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
	20		15	16	Metric	PN10	Butt/Socket	**727 700 206**	0.216
	25		20	16	Metric	PN10	Butt/Socket	**727 700 207**	0.279
	40		32	16	Metric	PN10	Butt/Socket	**727 700 209**	0.621
	50		40	16	Metric	PN10	Butt/Socket	**727 700 210**	0.722
	63	2	50	16	Metric	PN10	Butt/Socket	**727 700 211**	0.900
	75		65	16	Metric	PN10	Butt/Socket	**727 700 212**	1.110
*	90		80	16	Metric	PN10	Butt	**724 700 313**	1.390
	90		80	16	Metric	PN10	Butt	**727 700 313**	1.390
*	110		100	16	Metric	PN10	Butt	**724 700 314**	1.407
	110		100	16	Metric	PN10	Butt	**727 700 314**	1.407
*	125		100	16	Metric	PN10	Butt	**724 700 315**	1.408
	125		100	16	Metric	PN10	Butt	**727 700 315**	1.408
*	140		125	16	Metric	PN10	Butt	**724 700 316**	2.318
	140		125	16	Metric	PN10	Butt	**727 700 716**	2.318
	140	5	125	16	ASME	class 150	Butt	**727 701 315**	2.575
*	160	6	150	16	Metric	PN10	Butt	**724 700 317**	3.491
	160	6	150	16	Metric/ASME	PN10/ class 150	Butt	**727 700 717**	3.491
*	180		150	16	Metric	PN10	Butt	**724 700 318**	3.108
	180		150	16	Metric/ASME	PN10/ Class 150	Butt	**727 700 718**	3.108
*, **	200		200	16	Metric	PN16	Butt	**724 700 319**	3.549
	200	8	200	16	Metric/ASME	PN10/ class 150	Butt	**727 700 719**	5.600
*, **	225		200	16	Metric	PN16	Butt	**724 700 320**	3.380
	225	8	200	16	Metric/ASME	PN10/ class 150	Butt	**727 700 720**	5.533
*, **	250		250	16	Metric	PN16	Butt	**724 700 321**	6.390
	250		250	16	Metric	PN10	Butt	**727 700 721**	6.632
*, **	280		250	16	Metric	PN16	Butt	**724 700 322**	6.310
	280		250	16	Metric	PN10	Butt	**727 700 722**	6.573
*, **	315		300	16	Metric	PN16	Butt	**724 700 323**	9.740
	315		300	16	Metric	PN10	Butt	**727 700 723**	7.903
*, **	355		350	16	Metric	PN16	Butt	**724 700 324**	15.203
	355		350	16	Metric	PN10	Butt	**727 700 724**	14.587
*, **	400		400	16	Metric	PN16	Butt	**724 700 325**	20.600
	400		400	16	Metric	PN10	Butt	**727 700 725**	20.034
*, **	450		500	10	Metric	PN10	Butt	**724 700 426**	25.600
*, **	500		500	10	Metric	PN10	Butt	**724 700 427**	21.061
**	560		600	10	Metric	PN10	Butt	**724 700 428**	35.000
**	630		600	10	Metric	PN10	Butt	**724 700 429**	28.500
**	710		700	6	Metric	PN10	Butt	**724 700 430**	25.500
**	800		800	6	Metric	PN10	Butt	**724 700 431**	39.300
**	900		900	6	Metric	PN10	Butt	**724 700 432**	48.500

d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	Hmax (mm)	AL	M
20	95	65	28	14	12	4	M12
25	105	75	34	14	12	4	M12
40	140	100	51	18	16	4	M16
50	150	110	62	18	20	4	M16
63	165	125	78	18	20	4	M16
75	185	145	92	18	20	4	M16

table continued on the next page



	d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	Hmax (mm)	AL	M
*	90	200	160	108	18	20	8	M16
	90	200	160	108	18	20	8	M16
*	110	223	180	128	18	20	8	M16
	110	220	180	128	18	20	8	M16
*	125	223	180	135	18	20	8	M16
	125	220	180	135	18	20	8	M16
*	140	250	210	158	18	24	8	M16
	140	250	210	158	18	24	8	M16
	140	253	216	158	21	24	8	M16
*	160	285	240	178	22	28	8	M20
	160	285	240	178	22	24	8	M20
*	180	285	240	188	22	28	8	M20
	180	285	240	188	22	24	8	M20
*, **	200	344	295	235	22	31	12	M20
	200	340	295	235	22	27	8	M20
*, **	225	344	295	238	22	31	12	M20
	225	340	297	238	22	27	8	M20
*, **	250	410	355	288	26	35	12	M24
	250	395	350	288	22	30	12	M20
*, **	280	410	355	294	26	36	12	M24
	280	395	350	294	22	30	12	M20
*, **	315	455	410	338	26	43	12	M24
	315	445	400	338	22	34	12	M20
*, **	355	521	470	376	26	55	16	M24
	355	515	460	376	23	40	16	M20
*, **	400	582	525	430	30	56	16	M27
	400	574	515	430	26	40	16	M24
*, **	450	685	620	517	26	56	20	M24
*, **	500	685	620	533	26	56	20	M24
**	560	796	725	618	30	68	20	M27
**	630	800	725	645	30	68	20	M27
**	710	912	840	740	30	49	24	M27
**	800	1026	950	843	33	58	24	M30
**	900	1129	1050	947	33	62	28	M30

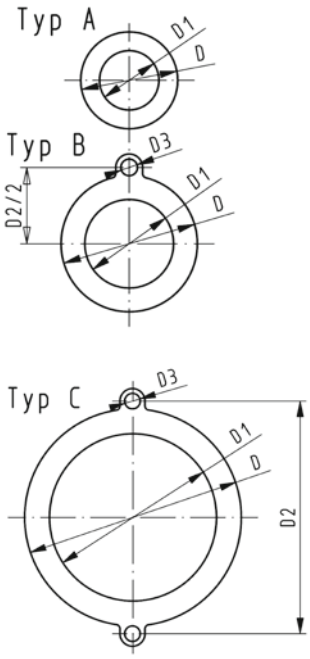


Flat gasket
EPDM

Model:

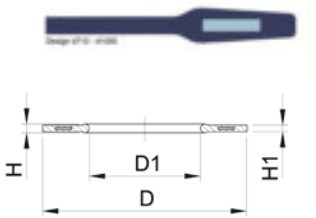
- For all metric GF Flange Adaptors
- Hardness approx. 65° Shore
- Integrated fixation aids from d110
- Centering on the inner diameter of the screw crown

di FA are the suitable inner diameters of flanges adaptors



d (mm)	DN (mm)	PN (bar)	Type	EPDM Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	Suitable for
16	10	10	A	**748 400 305**	0.004	46	16			2	6 - 26
20	15	10	A	**748 400 306**	0.012	51	20			2	10 - 30
25	20	10	A	**748 400 307**	0.004	61	25			2	15 - 35
32	25	10	A	**748 400 308**	0.008	71	32			2	22 - 42
40	32	10	A	**748 400 309**	0.013	82	40			3	30 - 50
50	40	10	A	**748 400 310**	0.016	92	50			3	40 - 60
63	50	10	A	**748 400 311**	0.018	107	63			3	53 - 73
75	65	10	A	**748 400 312**	0.029	127	71			3	61 - 81
90	80	10	A	**748 400 313**	0.035	142	84			3	74 - 94
110	100	10	B	**748 400 314**	0.051	162	104	180	18	4	94 - 114





Profile Flange Gasket EPDM/FKM
metric

Model:

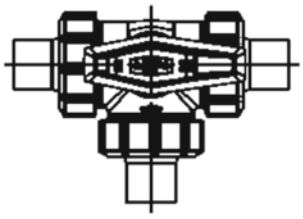
- For all metric GF Flange Adaptors
- Hardness: 70° Shore EPDM, 75° Shore FKM
- EPDM: approved acc. to DVGW Water W 270, KTW recommendation
- Centering on the inner diameter of the screw crown
- material steel insert: carbon steel
- Rubber-steel body combined with rubber profile cord ring up to d630
- Rubber-steel body ideal for big dimensions (d710 - d1000)

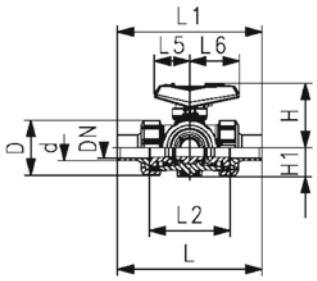
di FA are the suitable inner diameters of flanges adaptors

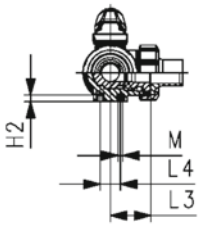
d (mm)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)	H1 (mm)
16	10	16	**748 440 705**	0.008	**749 440 705**	0.012	46	16	4	3
20	15	16	**748 440 706**	0.009	**749 440 706**	0.013	51	20	4	3
25	20	16	**748 440 707**	0.015	**749 440 707**	0.014	61	22	4	3
32	25	16	**748 440 708**	0.013	**749 440 708**	0.019	71	28	4	3
40	32	16	**748 440 709**	0.019	**749 440 709**	0.026	82	40	4	3
50	40	16	**748 440 710**	0.029	**749 440 710**	0.039	92	46	4	3
63	50	16	**748 440 711**	0.041	**749 440 711**	0.050	107	58	5	4
75	65	16	**748 440 712**	0.053	**749 440 712**	0.082	127	69	5	4
90	80	16	**748 440 713**	0.064	**749 440 713**	0.083	142	84	5	4
110	100	16	**748 440 714**	0.100	**749 440 714**	0.127	162	104	6	5

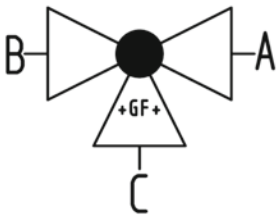
Ball valves type 543 Pro

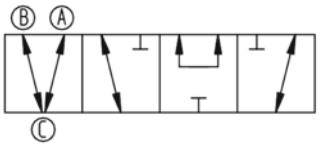












PROGEF Plus 3-Way ball valve type 543 Pro silicone free
Horizontal/T-port
With butt fusion spigots IR-Plus/SDR11 metric

Model:

- Material: PP-H / silicone free cleaned
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PVDF
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

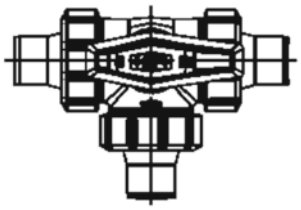
Option:

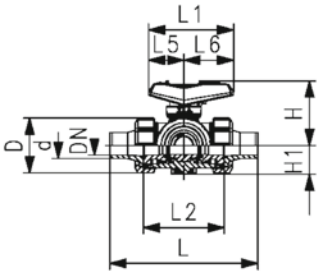
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

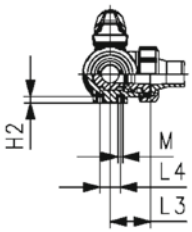
d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	10	200	**167 543 542**	1	0.172	**167 543 552**	1	0.170
25	20	10	470	**167 543 543**	1	0.245	**167 543 553**	1	0.245
32	25	10	793	**167 543 544**	1	0.372	**167 543 554**	1	0.372
40	32	10	1290	**167 543 545**	1	0.622	**167 543 555**	1	0.622
50	40	10	1910	**167 543 546**	1	0.939	**167 543 556**	1	0.939
63	50	10	3100	**167 543 547**	1	1.826	**167 543 557**	1	1.826

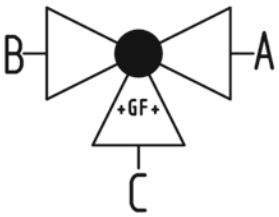
d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	e (mm)	closest inch (inch)
20	50	61	28	8	146	82	72	36	25	35	47	6	1.9	½
25	58	74	32	8	163	106	85	43	25	44	62	6	2.3	¾
32	68	80	36	8	178	106	98	49	25	44	62	6	2.9	1
40	84	95	45	9	204	131	118	59	45	57	74	8	3.7	1 ¼
50	97	102	51	9	237	131	135	68	45	57	74	8	4.6	1 ½
63	124	117	65	9	296	152	176	88	45	66	86	8	5.8	2

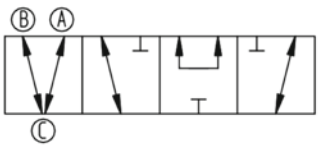












PROGEF Plus 3-Way ball valve type 543 Pro silicone free
Horizontal/T-port
With socket fusion spigots metric

Model:

- Material: PP-H / silicone free cleaned
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PVDF
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	10	140	**167 543 521**	1	0.164	**167 543 531**	1	0.164
20	15	10	200	**167 543 522**	1	0.170	**167 543 532**	1	0.170
25	20	10	470	**167 543 523**	1	0.245	**167 543 533**	1	0.245
32	25	10	793	**167 543 524**	1	0.372	**167 543 534**	1	0.372
40	32	10	1290	**167 543 525**	1	0.622	**167 543 535**	1	0.622
50	40	10	1910	**167 543 526**	1	0.939	**167 543 536**	1	0.939
63	50	10	3100	**167 543 527**	1	1.826	**167 543 537**	1	1.826

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	M	closest inch (inch)
16	50	61	28	8	126	82	72	36	25	35	47	133	6	⅜
20	50	61	28	8	136	82	72	36	25	35	47	144	6	½
25	58	74	32	8	159	106	85	43	25	44	62	170	6	¾
32	68	80	36	8	178	106	98	49	25	44	62	191	6	1
40	84	95	45	9	204	131	118	59	45	57	74	223	8	1 ¼
50	97	102	51	9	237	131	135	68	45	57	74	256	8	1 ½
63	124	117	65	9	296	152	176	88	45	66	86	319	8	2





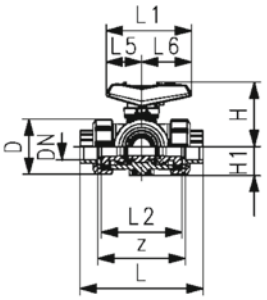
PROGEF Plus 3-Way ball valve type 543 Pro silicone free
Horizontal/T-port
With fusion sockets metric (US version)

Model:

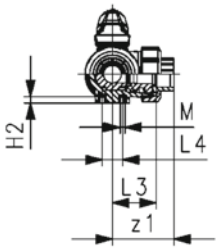
- Material: PP-H / silicone free cleaned
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

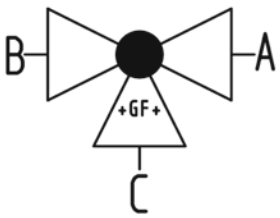
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

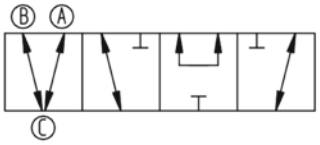


d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	10	140	**167 543 681**	1	0.160	**167 543 691**	1	0.160
20	15	10	200	**167 543 682**	1	0.164	**167 543 692**	1	0.164
25	20	10	470	**167 543 683**	1	0.236	**167 543 693**	1	0.236
32	25	10	793	**167 543 684**	1	0.357	**167 543 694**	1	0.357
40	32	10	1290	**167 543 685**	1	0.609	**167 543 695**	1	0.609
50	40	10	1910	**167 543 686**	1	0.898	**167 543 696**	1	0.898
63	50	10	3100	**167 543 687**	1	1.744	**167 543 697**	1	1.744

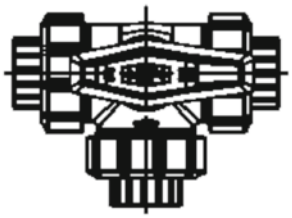


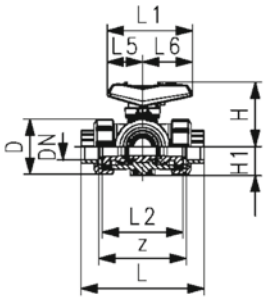
d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	50	61	28	8	110	82	72	36	25	35	47	6	82	41	⅜
20	50	61	28	8	112	82	72	36	25	35	47	6	82	41	½
25	58	74	32	8	129	106	85	43	25	44	62	6	97	49	¾
32	68	80	36	8	146	106	98	49	25	44	62	6	110	55	1
40	84	95	45	9	170	131	118	59	45	57	74	8	132	66	1 ¼
50	97	102	51	9	193	131	135	68	45	57	74	8	151	76	1 ½
63	124	117	65	9	244	152	176	88	45	66	86	8	188	94	2

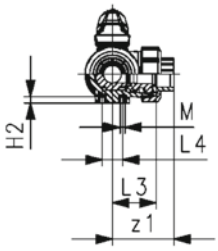


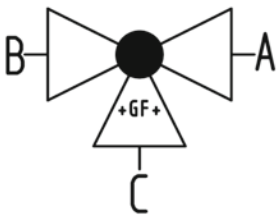


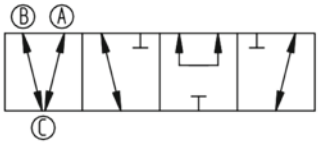












PROGEF Plus 3-Way ball valve type 543 Pro silicone free
Horizontal/T-port
With fusion sockets metric

Model:

- Material: PP-H / silicone free cleaned
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PVDF
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

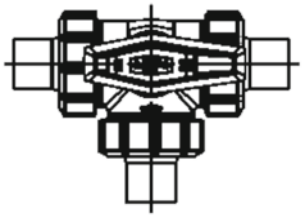
Option:

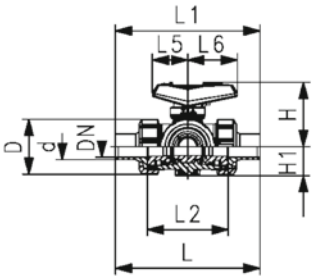
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

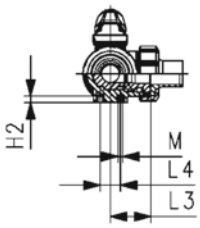
d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	10	140	**167 543 501**	1	0.160	**167 543 511**	1	0.160
20	15	10	200	**167 543 502**	1	0.164	**167 543 512**	1	0.164
25	20	10	470	**167 543 503**	1	0.236	**167 543 513**	1	0.236
32	25	10	793	**167 543 504**	1	0.357	**167 543 514**	1	0.357
40	32	10	1290	**167 543 505**	1	0.609	**167 543 515**	1	0.609
50	40	10	1910	**167 543 506**	1	0.898	**167 543 516**	1	0.898
63	50	10	3100	**167 543 507**	1	1.744	**167 543 517**	1	1.744

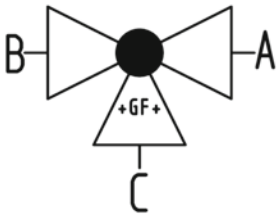
d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	50	61	28	8	110	82	72	36	25	35	47	6	82	41	⅜
20	50	61	28	8	112	82	72	36	25	35	47	6	82	41	½
25	58	74	32	8	129	106	85	43	25	44	62	6	97	49	¾
32	68	80	36	8	146	106	98	49	25	44	62	6	110	55	1
40	84	95	45	9	170	131	118	59	45	57	74	8	132	66	1 ¼
50	97	102	51	9	193	131	135	68	45	57	74	8	151	76	1 ½
63	124	117	65	9	244	152	176	88	45	66	86	8	188	94	2













PROGEF Plus 3-Way ball valve type 543 Pro silicone free
Horizontal/L-port
With butt fusion spigots IR-Plus SDR11 metric

Model:

- Material: PP-H / silicone free cleaned
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PVDF
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

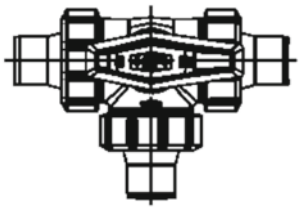
Option:

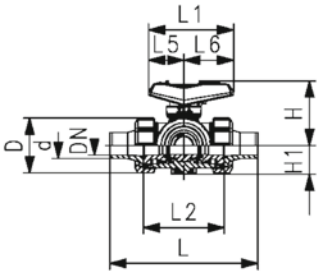
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

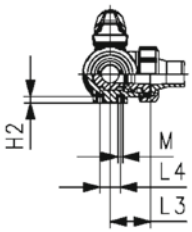
d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	10	75	**167 543 242**	1	0.171	**167 543 252**	1	0.171
25	20	10	150	**167 543 243**	1	0.247	**167 543 253**	1	0.247
32	25	10	280	**167 543 244**	1	0.377	**167 543 254**	1	0.377
40	32	10	480	**167 543 245**	1	0.629	**167 543 255**	1	0.629
50	40	10	620	**167 543 246**	1	0.953	**167 543 256**	1	0.953
63	50	10	1230	**167 543 247**	1	1.855	**167 543 257**	1	1.855

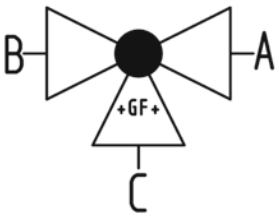
d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	e (mm)	closest inch (inch)
20	50	61	28	8	146	82	72	36	25	35	47	6	1.9	½
25	58	74	32	8	163	106	85	43	25	44	62	6	2.3	¾
32	68	80	36	8	178	106	98	49	25	44	62	6	2.9	1
40	84	95	45	9	204	131	118	59	45	57	74	8	3.7	1 ¼
50	97	102	51	9	237	131	135	68	45	57	74	8	4.6	1 ½
63	124	117	65	9	296	152	176	88	45	66	86	8	5.8	2













PROGEF Plus 3-Way ball valve type 543 Pro silicone free
Horizontal/L-port
With socket fusion spigots metric

Model:

- Material: PP-H / silicone free cleaned
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	10	50	**167 543 421**	1	0.165	**167 543 431**	1	0.165
20	15	10	75	**167 543 422**	1	0.171	**167 543 432**	1	0.171
25	20	10	150	**167 543 423**	1	0.247	**167 543 433**	1	0.247
32	25	10	280	**167 543 424**	1	0.377	**167 543 434**	1	0.377
40	32	10	480	**167 543 425**	1	0.629	**167 543 435**	1	0.629
50	40	10	620	**167 543 426**	1	0.953	**167 543 436**	1	0.953
63	50	10	1230	**167 543 427**	1	1.855	**167 543 437**	1	1.855

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	M	closest inch (inch)
16	50	61	28	8	126	82	72	36	25	35	47	133	6	⅜
20	50	61	28	8	136	82	72	36	25	35	47	144	6	½
25	58	74	32	8	159	106	85	43	25	44	62	170	6	¾
32	68	80	36	8	178	106	98	49	25	44	62	191	6	1
40	84	95	45	9	204	131	118	59	45	57	74	223	8	1 ¼
50	97	102	51	9	237	131	135	68	45	57	74	256	8	1 ½
63	124	117	65	9	296	152	176	88	45	66	86	319	8	2





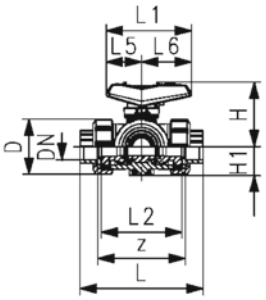
PROGEF Plus 3-Way ball valve type 543 Pro silicone free
Horizontal/L-port
With fusion sockets metric (US version)

Model:

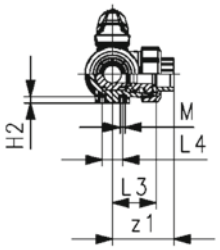
- Material: PP-H / silicone free cleaned
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

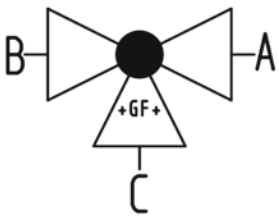
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	10	50	**167 543 661**	1	0.161	**167 543 671**	1	0.161
20	15	10	75	**167 543 662**	1	0.165	**167 543 672**	1	0.165
25	20	10	150	**167 543 663**	1	0.237	**167 543 673**	1	0.237
32	25	10	280	**167 543 664**	1	0.361	**167 543 674**	1	0.361
40	32	10	480	**167 543 665**	1	0.616	**167 543 675**	1	0.616
50	40	10	620	**167 543 666**	1	0.912	**167 543 676**	1	0.912
63	50	10	1230	**167 543 667**	1	1.773	**167 543 677**	1	1.773

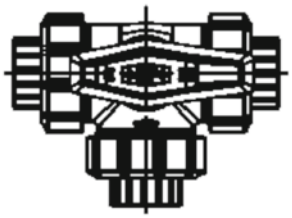


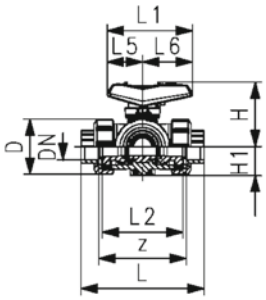
d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	50	61	28	8	110	82	72	36	25	35	47	6	82	41	⅜
20	50	61	28	8	112	82	72	36	25	35	47	6	82	41	½
25	58	74	32	8	129	106	85	43	25	44	62	6	97	49	¾
32	68	80	36	8	146	106	98	49	25	44	62	6	110	55	1
40	84	95	45	9	170	131	118	59	45	57	74	8	132	66	1 ¼
50	97	102	51	9	193	131	135	68	45	57	74	8	151	76	1 ½
63	124	117	65	9	244	152	176	88	45	66	86	8	188	94	2

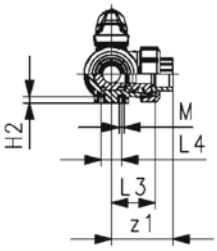


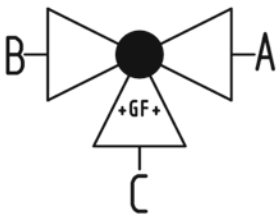














PROGEF Plus 3-Way ball valve type 543 Pro silicone free
Horizontal/L-port
With fusion sockets metric

Model:

- Material: PP-H / silicone free cleaned
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PVDF
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	10	50	**167 543 401**	1	0.161	**167 543 411**	1	0.161
20	15	10	75	**167 543 402**	1	0.165	**167 543 412**	1	0.172
25	20	10	150	**167 543 403**	1	0.237	**167 543 413**	1	0.237
32	25	10	280	**167 543 404**	1	0.361	**167 543 414**	1	0.361
40	32	10	480	**167 543 405**	1	0.616	**167 543 415**	1	0.616
50	40	10	620	**167 543 406**	1	0.912	**167 543 416**	1	0.912
63	50	10	1230	**167 543 407**	1	1.773	**167 543 417**	1	1.773

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	50	61	28	8	110	82	72	36	25	35	47	6	82	41	⅜
20	50	61	28	8	112	82	72	36	25	35	47	6	82	41	½
25	58	74	32	8	129	106	85	43	25	44	62	6	97	49	¾
32	68	80	36	8	146	106	98	49	25	44	62	6	110	55	1
40	84	95	45	9	170	131	118	59	45	57	74	8	132	66	1 ¼
50	97	102	51	9	193	131	135	68	45	57	74	8	151	76	1 ½
63	124	117	65	9	244	152	176	88	45	66	86	8	188	94	2





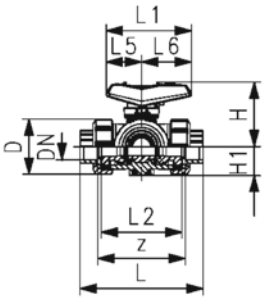
PROGEF Plus 3-Way ball valve type 543 Pro oil free
Horizontal/T-port
With fusion sockets metric

Model:

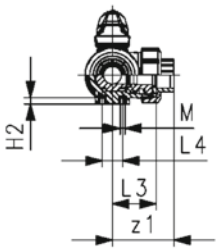
- Material: PP-H/oil free cleaned
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

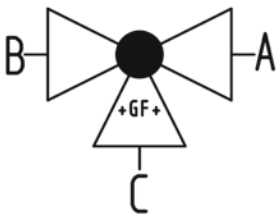
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

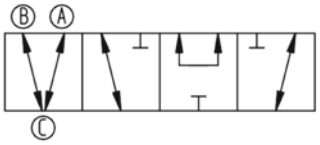


d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	10	140	**167 543 381**	1	0.160	**167 543 391**	1	0.160
20	15	½	10	200	**167 543 382**	1	0.164	**167 543 392**	1	0.164
25	20	¾	10	470	**167 543 383**	1	0.236	**167 543 393**	1	0.236
32	25		10	793	**167 543 384**	1	0.357	**167 543 394**	1	0.357
40	32		10	1290	**167 543 385**	1	0.609	**167 543 395**	1	0.609
50	40	1 ½	10	1910	**167 543 386**	1	0.898	**167 543 396**	1	0.898
63	50	2	10	3100	**167 543 387**	1	1.744	**167 543 397**	1	1.744

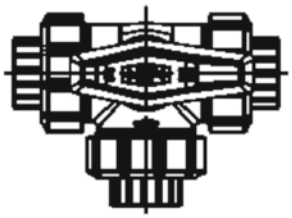


d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	50	61	28	8	110	82	72	36	25	35	47	6	82	41	⅜
20	50	61	28	8	112	82	72	36	25	35	47	6	82	41	½
25	58	74	32	8	129	106	85	43	25	44	62	6	97	49	¾
32	68	80	36	8	146	106	98	49	25	44	62	6	110	55	1
40	84	95	45	9	170	131	118	59	45	57	74	8	132	66	1 ¼
50	97	102	51	9	193	131	135	68	45	57	74	8	151	76	1 ½
63	124	117	65	9	244	152	176	88	45	66	86	8	188	94	2









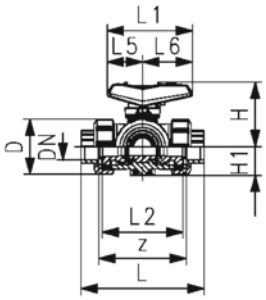
PROGEF Plus 3-Way ball valve type 543 Pro oil free
Horizontal/L-port
With fusion sockets metric

Model:

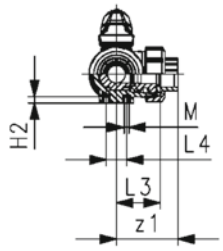
- Material: PP-H/oil free cleaned
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

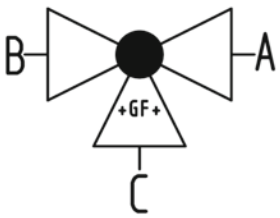
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	10	50	**167 543 181**	1	0.161	**167 543 191**	1	0.161
20	15	½	10	75	**167 543 182**	1	0.165	**167 543 192**	1	0.165
25	20	¾	10	150	**167 543 183**	1	0.237	**167 543 193**	1	0.237
32	25		10	280	**167 543 184**	1	0.361	**167 543 194**	1	0.361
40	32		10	480	**167 543 185**	1	0.616	**167 543 195**	1	0.616
50	40	1 ½	10	620	**167 543 186**	1	0.912	**167 543 196**	1	0.912
63	50	2	10	1230	**167 543 187**	1	1.773	**167 543 197**	1	1.773



d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	50	61	28	8	110	82	72	36	25	35	47	6	82	41	⅜
20	50	61	28	8	112	82	72	36	25	35	47	6	82	41	½
25	58	74	32	8	129	106	85	43	25	44	62	6	97	49	¾
32	68	80	36	8	146	106	98	49	25	44	62	6	110	55	1
40	84	95	45	9	170	131	118	59	45	57	74	8	132	66	1 ¼
50	97	102	51	9	193	131	135	68	45	57	74	8	151	76	1 ½
63	124	117	65	9	244	152	176	88	45	66	86	8	188	94	2





Ball valves type 546 Pro



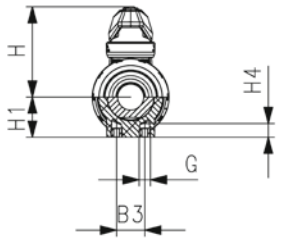
PROGEF Plus Ball Valve type 546 Pro
Oil free
With butt fusion spigots IR-Plus SDR11 ISO

Model:

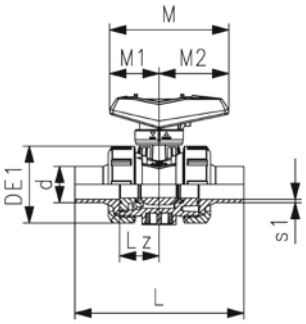
- Lockable lever as standard (DN10-DN50)
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	SDR	EPDM Code	SP	Weight (kg)	FKM Code
20	15	½	10	185	11	**167 546 482**	1	0.120	**800 063 809**
25	20	¾	10	350	11	**167 546 483**	1	0.183	**800 065 160**
32	25	1	10	700	11	**167 546 484**	1	0.259	**800 062 169**
40	32	1 ¼	10	1000	11	**167 546 485**	1	0.452	**800 064 840**
50	40	1 ½	10	1600	11	**167 546 486**	1	0.620	**800 064 173**
63	50	2	10	3100	11	**167 546 487**	1	1.200	**800 063 812**
75	65	2 ½	10	5000	11	**167 546 488**	1	3.800	
90	80	3	10	7000	11	**167 546 489**	1	5.500	
110	100	4	10	11000	11	**167 546 490**	1	8.700	



d (mm)	B3 (mm)	DE1 (mm)	G (inch)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	s1 (mm)	z (mm)
20	25	50	M6	60.5	27	12	130	28	82	35	47	1.9	66
25	25	58	M6	74.0	30	12	143	33	106	44	62	2.3	77
32	25	68	M6	80.0	36	12	150	36	106	44	62	3.0	83
40	45	84	M8	95.0	44	15	171	43	131	57	74	3.7	99
50	45	97	M8	101.5	51	15	191	45	131	57	74	4.6	105
63	45	124	M8	116.5	64	15	220	51	152	66	86	5.8	117
75	70	166	M8	169.0	85	15	266	68	270	64	205	8.2	167
90	70	200	M8	180.0	105	15	264	71	270	64	205	10.0	180
110	120	238	M12	194.0	123	22	301	82	326	71	255	12.0	215



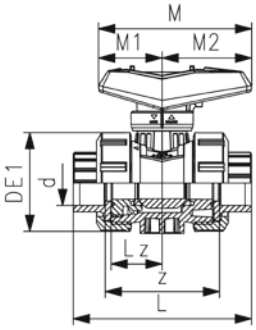
PROGEF Plus Ball Valve type 546 Pro
Oil-free
With fusion sockets PP-H ISO

Model:

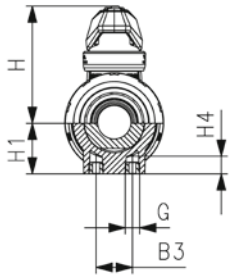
- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	½	10	185	**167 546 902**	1	0.119	**167 546 912**	1	0.115
25	20	¾	10	350	**167 546 903**	1	0.183	**167 546 913**	1	0.184
32	25	1	10	700	**167 546 904**	1	0.258	**167 546 914**	1	0.260
40	32	1 ¼	10	1000	**167 546 905**	1	0.440	**167 546 915**	1	0.440
50	40	1 ½	10	1600	**167 546 906**	1	0.610	**167 546 916**	1	0.620
63	50	2	10	3100	**167 546 907**	1	1.113	**167 546 917**	1	1.145
75	65	2 ½	10	5000	**167 546 908**	1	3.700	**167 546 918**	1	3.700
90	80	3	10	7000	**167 546 909**	1	5.500	**167 546 919**	1	5.500
110	100	4	10	11000	**167 546 910**	1	8.700	**167 546 920**	1	8.700



d (mm)	B3 (mm)	DE1 (mm)	G (inch)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
20	25	50	M6	60.5	27	12	95	28	82	35	47	66
25	25	58	M6	74.0	30	12	109	33	106	44	62	77
32	25	68	M6	80.0	36	12	119	36	106	44	62	83
40	45	84	M8	95.0	44	15	135	43	131	57	74	99
50	45	97	M8	101.5	51	15	147	45	131	57	74	105
63	45	124	M8	116.5	64	15	168	51	152	66	86	117
75	70	166	M8	169.0	85	15	233	68	270	64	205	167
90	70	200	M8	180.0	105	15	254	71	270	64	205	180
110	120	238	M12	194.0	123	22	301	82	326	71	255	215



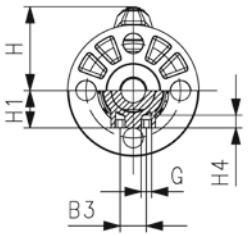
PROGEF Standard Ball Valve type 546 Pro
Silicone free
With backing flanges PP-St ISO with PP-H

Model:

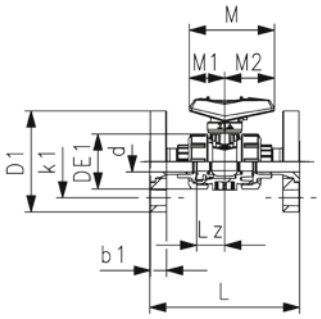
- Lockable lever as standard
- Ball seat PVDF
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
75	65	2 ½	10	5000	**167 546 828**	1	4.300	**167 546 838**	1	4.300
90	80	3	10	7000	**167 546 829**	1	6.400	**167 546 839**	1	6.400
110	100	4	10	11000	**167 546 830**	1	10.000	**167 546 840**	1	10.000



d (mm)	b1 (mm)	B3 (mm)	D1 (mm)	DE1 (mm)	G (inch)	H (mm)	H1 (mm)	H4 (mm)	k1 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
75	18	70	166	166	M8	169	85	15	145	290	68	270	64	205	167
90	20	70	200	200	M8	180	105	15	160	310	71	270	64	205	180
110	20	120	238	238	M12	194	123	22	180	350	82	326	71	255	215



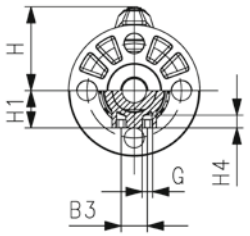
PROGEF Standard Ball Valve type 546 Pro
Silicone free
LABS/PWIS - compliant
With backing flanges PP-St ANSI with PP-H

Model:

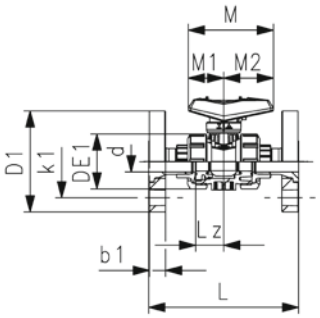
- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)
- LABS/PWIS - compliant

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
75	65	2 ½	10	5000	**167 546 888**	1	4.300	**167 546 898**	1	4.300
90	80	3	10	7000	**167 546 889**	1	6.400	**167 546 899**	1	6.400
110	100	4	10	11000	**167 546 890**	1	10.000	**167 546 900**	1	10.000



d (mm)	b1 (mm)	B3 (mm)	D1 (mm)	DE1 (mm)	G (inch)	H (mm)	H1 (mm)	H4 (mm)	k1 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)
75	18	70	166	166	M8	169	85	15	140	290	68	270	64	205
90	20	70	200	200	M8	180	105	15	152	310	71	270	64	205
110	20	120	238	238	M12	194	123	22	190	350	82	326	71	255



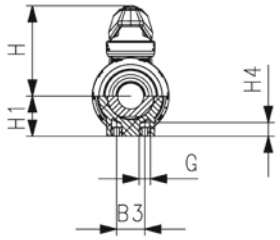
PROGEF Plus Ball Valve type 546 Pro
Silicone free
With butt fusion spigots IR-Plus SDR11 ISO

Model:

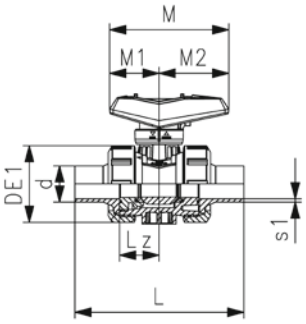
- Lockable lever as standard
- Ball seat PVDF
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	FKM Code	SP	Weight (kg)
20	15	½	10	185	**167 546 662**	1	**167 546 672**	1	0.120
25	20	¾	10	350	**167 546 663**	1	**167 546 673**	1	0.180
32	25	1	10	700	**167 546 664**	1	**167 546 674**	1	0.255
40	32	1 ¼	10	1000	**167 546 665**	1	**167 546 675**	1	0.440
50	40	1 ½	10	1600	**167 546 666**	1	**167 546 676**	1	0.620
63	50	2	10	3100	**167 546 667**	1	**167 546 677**	1	1.200
75	65	2 ½	10	5000	**167 546 668**	1	**167 546 678**	1	2.612
90	80	3	10	7000	**167 546 669**	1	**167 546 679**	1	5.500
110	100	4	10	11000	**167 546 670**	1	**167 546 680**	1	8.700



d (mm)	B3 (mm)	DE1 (mm)	G (inch)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	s1 (mm)
20	25	50	M6	60.5	27	12	130	28	82	35	47	1.9
25	25	58	M6	74.0	30	12	143	33	106	44	62	2.3
32	25	68	M6	80.0	36	12	150	36	106	44	62	3.0
40	45	84	M8	95.0	44	15	171	43	131	57	74	3.7
50	45	97	M8	101.5	51	15	191	45	131	57	74	4.6
63	45	124	M8	116.5	64	15	220	51	152	66	86	5.8
75	70	166	M8	169.0	85	15	266	68	270	64	205	8.2
90	70	200	M8	180.0	105	15	264	71	270	64	205	10.0
110	120	238	M12	194.0	123	22	301	82	326	71	255	12.0



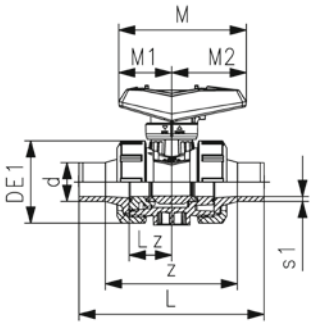
PROGEF Standard Ball Valve type 546 Pro
Silicone free
With sockets fusion spigots PP-H ISO

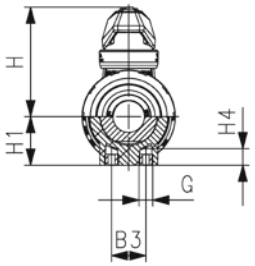
Model:

- Lockable lever as standard
- Ball seat PVDF
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible





d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	10	70	**167 546 621**	1	0.120	**167 546 631**	1	0.120
20	15	½	10	185	**167 546 622**	1	0.120	**167 546 632**	1	0.120
25	20	¾	10	350	**167 546 623**	1	0.180	**167 546 633**	1	0.180
32	25	1	10	700	**167 546 624**	1	0.260	**167 546 634**	1	0.260
40	32	1 ¼	10	1000	**167 546 625**	1	0.450	**167 546 635**	1	0.450
50	40	1 ½	10	1600	**167 546 626**	1	0.640	**167 546 636**	1	0.640
63	50	2	10	3100	**167 546 627**	1	1.210	**167 546 637**	1	1.210
75	65	2 ½	10	5000	**167 546 628**	1	3.800	**167 546 638**	1	3.800
90	80	3	10	7000	**167 546 629**	1	5.600	**167 546 639**	1	5.600
110	100	4	10	11000	**167 546 630**	1	8.800	**167 546 640**	1	8.800

d (mm)	B3 (mm)	DE1 (mm)	G (inch)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	s1 (mm)	z (mm)
16	25	50	M6	60.5	27	12	110	28	82	35	47	3.0	84
20	25	50	M6	60.5	27	12	120	28	82	35	47	3.0	92
25	25	58	M6	74.0	30	12	139	33	106	44	62	3.0	107
32	25	68	M6	80.0	36	12	150	36	106	44	62	4.0	114
40	45	84	M8	95.0	44	15	170	43	131	57	74	4.5	130
50	45	97	M8	101.5	51	15	190	45	131	57	74	5.5	144
63	45	124	M8	116.5	64	15	220	51	152	66	86	7.0	166
75	70	166	M8	169.0	85	15	280	68	270	64	205	8.5	190
90	70	200	M8	180.0	105	15	196	71	270	64	205	10.0	92
110	120	238	M12	194.0	123	22	336	82	326	71	255	12.0	208



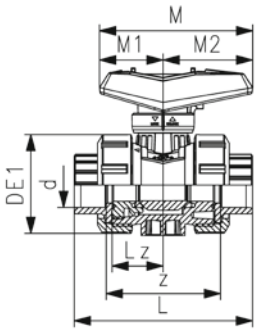
PROGEF Standard Ball Valve type 546 Pro
Silicone free
With fusion sockets PP-H ISO

Model:

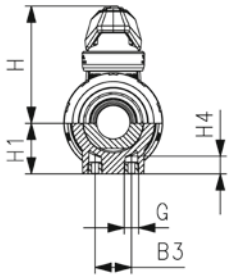
- Lockable lever as standard
- Ball seat PVDF
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	10	70	**167 546 601**	1	0.115	**167 546 611**	1	0.115
20	15	½	10	185	**167 546 602**	1	0.121	**167 546 612**	1	0.115
25	20	¾	10	350	**167 546 603**	1	0.180	**167 546 613**	1	0.180
32	25	1	10	700	**167 546 604**	1	0.255	**167 546 614**	1	0.255
40	32	1 ¼	10	1000	**167 546 605**	1	0.440	**167 546 615**	1	0.440
50	40	1 ½	10	1600	**167 546 606**	1	0.610	**167 546 616**	1	0.610
63	50	2	10	3100	**167 546 607**	1	1.145	**167 546 617**	1	1.145
75	65	2 ½	10	5000	**167 546 608**	1	3.700	**167 546 618**	1	3.700
90	80	3	10	7000	**167 546 609**	1	5.500	**167 546 619**	1	5.500
110	100	4	10	11000	**167 546 610**	1	8.700	**167 546 620**	1	8.700



d (mm)	B3 (mm)	DE1 (mm)	G (inch)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	25	50	M6	60.5	27	12	93	28	82	35	47	67
20	25	50	M6	60.5	27	12	95	28	82	35	47	66
25	25	58	M6	74.0	30	12	109	33	106	44	62	77
32	25	68	M6	80.0	36	12	119	36	106	44	62	83
40	45	84	M8	95.0	44	15	135	43	131	57	74	99
50	45	97	M8	101.5	51	15	147	45	131	57	74	105
63	45	124	M8	116.5	64	15	168	51	152	66	86	117
75	70	166	M8	169.0	85	15	233	68	270	64	205	167
90	70	200	M8	180.0	105	15	254	71	270	64	205	180
110	120	238	M12	194.0	123	22	301	82	326	71	255	215



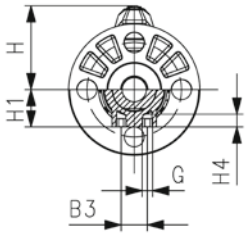
PROGEF Standard Ball Valve type 546 Pro
Oil-free
With backing flanges PP-GF JIS with PP-H

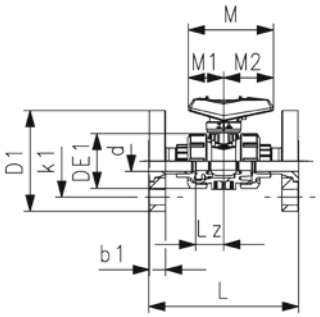
Model:

- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible





d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	½	10	185	**167 546 922**	1	0.314	**167 546 932**	1	0.314
25	20	¾	10	350	**167 546 923**	1	0.432	**167 546 933**	1	0.432
32	25	1	10	700	**167 546 924**	1	0.676	**167 546 934**	1	0.676
40	32	1 ¼	10	1000	**167 546 925**	1	0.970	**167 546 935**	1	0.970
50	40	1 ½	10	1600	**167 546 926**	1	1.216	**167 546 936**	1	1.216
63	50	2	10	3100	**167 546 927**	1	1.966	**167 546 937**	1	1.966
75	65	2 ½	10	5000	**167 546 928**	1	4.300	**167 546 938**	1	4.300
90	80	3	10	7000	**167 546 929**	1	6.400	**167 546 939**	1	6.400
110	100	4	10	11000	**167 546 930**	1	10.000	**167 546 940**	1	10.000

d (mm)	b1 (mm)	B3 (mm)	D1 (mm)	DE1 (mm)	G (inch)	H (mm)	H1 (mm)	H4 (mm)	k1 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)
20	12	25	95	50	M6	60.5	27	12	70	130	28	82	35	47
25	12	25	105	58	M6	74.0	30	12	75	150	33	106	44	62
32	14	25	115	68	M6	80.0	36	12	90	160	36	106	44	62
40	16	45	140	84	M8	95.0	44	15	100	180	43	131	57	74
50	16	45	150	97	M8	101.5	51	15	105	200	45	131	57	74
63	18	45	165	124	M8	116.5	64	15	120	230	51	152	66	86
75	18	70	166	166	M8	169.0	85	15	140	290	68	270	64	205
90	20	70	200	200	M8	180.0	105	15	150	310	71	270	64	205
110	20	120	238	238	M12	194.0	123	22	175	350	82	326	71	255

Butterfly valves type 567



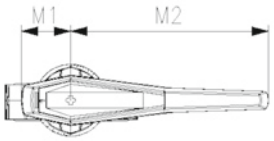
PROGEF Plus Wafer-style intermediate installation butterfly valve type 567 silicone free
With hand lever
Flange standard metric/ANSI/BS/JIS

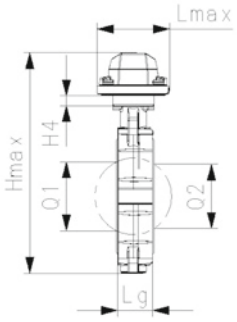
Model:

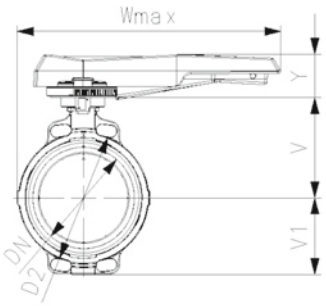
- Material: PP-H / silicone free cleaned
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**167 567 402**	1.277	**167 567 422**	0.969
75	2 ½	65	10	1500	**167 567 403**	1.056	**167 567 423**	1.270
90	3	80	10	2400	**167 567 404**	1.184	**167 567 424**	1.191
110	4	100	10	3800	**167 567 405**	1.737	**167 567 425**	1.751
140	5	125	10	8600	**167 567 406**	2.181	**167 567 426**	2.199
160	6	150	10	11400	**167 567 407**	2.966	**167 567 427**	2.989
225	8	200	10	19900	**167 567 408**	4.678	**167 567 428**	4.706
280	10	250	6	34000	**167 567 409**	11.841	**167 567 429**	11.841
315	12	300	6	50000	**167 567 410**	14.816	**167 567 430**	14.816

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	H4 (mm)	V1 (mm)	Lg (mm)	d2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	M1 (mm)	M2 (mm)
63	278.9	115.2	269.0	23	78.8	45	104	40		66.8	64.7	205.5
75	291.8	115.2	271.8	23	85.1	46	115	54	35	66.8	64.7	205.5
90	303.6	115.2	273.9	23	91.2	49	131	67	50	66.8	64.7	205.5
110	342.2	115.2	336.0	23	105.7	56	161	88	74	70.1	64.9	255.5
140	368.9	115.2	349.0	23	118.8	64	187	113	97	70.1	64.9	255.5
160	390.0	115.2	363.0	23	130.9	72	215	139	123	70.1	64.9	255.5
225	455.1	149.4	543.0	23	158.3	73	267	178	169	86.3	103.6	409.5
280	555.0	149.4	574.0	23	206.1	113	329	210	207	86.3	103.6	409.5
315	599.4	149.4	599.7	23	228.8	113	379	256	253	86.3	103.6	409.5



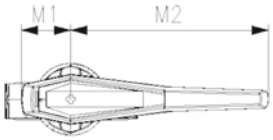
PROGEF Plus Wafer-style intermediate installation butterfly valve type 567 oil free
With hand lever
Flange standard metric/ANSI/BS/JIS

Model:

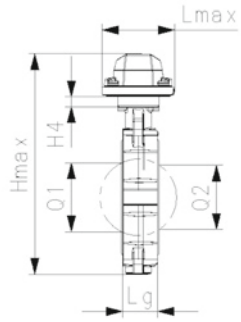
- Material: PP-H/oil free cleaned
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

Note:

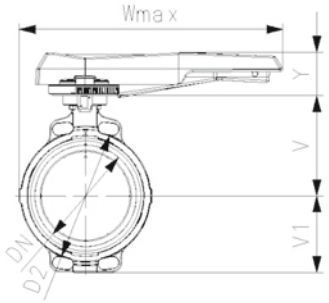
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code
63	2	50	10	740	**167 567 502**	0.965	**167 567 522**
75	2 ½	65	10	1500	**167 567 503**	1.056	**167 567 523**
90	3	80	10	2400	**167 567 504**	1.184	**167 567 524**
110	4	100	10	3800	**167 567 505**	1.737	**167 567 525**
140	5	125	10	8600	**167 567 506**	2.181	**167 567 526**
160	6	150	10	11400	**167 567 507**	2.966	**167 567 527**
225	8	200	10	19900	**167 567 508**	4.678	**167 567 528**



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	H4 (mm)	V1 (mm)	Lg (mm)	d2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	M1 (mm)	M2 (mm)
63	278.9	115.2	269.0	23	78.8	45	104	40		66.8	64.7	205.5
75	291.8	115.2	271.8	23	85.1	46	115	54	35	66.8	64.7	205.5
90	303.6	115.2	273.9	23	91.2	49	131	67	50	66.8	64.7	205.5
110	342.2	115.2	336.0	23	105.7	56	161	88	74	70.1	64.9	255.5
140	368.9	115.2	349.0	23	118.8	64	187	113	97	70.1	64.9	255.5
160	390.0	115.2	363.0	23	130.9	72	215	139	123	70.1	64.9	255.5
225	455.1	149.4	543.0	23	158.3	73	267	178	169	86.3	103.6	409.5



Butterfly valves type 578



PROGEF Plus Lug-style end installation butterfly valve type 578 silicone free
With hand lever
Flange standard metric

Model:

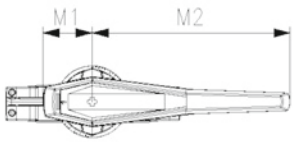
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Silicone free/paint-compatible
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

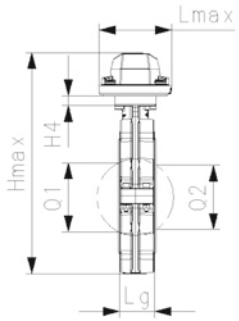
Option:

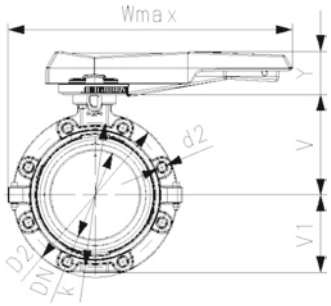
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**167 578 402**	1.800	**167 578 422**	1.800
75	2 ½	65	10	1500	**167 578 403**	1.895	**167 578 423**	1.895
90	3	80	10	2400	**167 578 404**	2.251	**167 578 424**	2.251
110	4	100	10	3800	**167 578 405**	3.146	**167 578 425**	3.146
140	5	125	10	8600	**167 578 406**	4.660	**167 578 426**	4.660
160	6	150	10	11400	**167 578 407**	6.430	**167 578 427**	6.430
225	8	200	10	19900	**167 578 408**	8.625	**167 578 428**	8.625
280	10	250	6	34000	**167 578 409**	19.528	**167 578 429**	19.528
315	12	300	6	50000	**167 578 410**	26.106	**167 578 430**	26.106

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	M1 (mm)
63	278.9	115.2	287.8	90	133.3	23	78.8	44.7	160	40		M16	125	63.7
75	291.8	115.2	296.3	90	139.9	23	85.1	45.7	180	54	35	M16	145	63.7
90	303.6	115.2	310.3	90	145.6	23	91.2	48.7	195	67	50	M16	160	63.7
110	343.6	115.2	375.2	90	166.0	23	107.5	55.6	226	88	74	M16	180	63.7
140	372.8	115.2	391.2	90	180.0	23	122.7	63.5	258	113	97	M16	210	63.7
160	393.6	115.2	395.2	90	189.0	23	134.5	71.5	284	139	123	M20	240	63.7
225	458.1	149.4	588.1	90	210.5	23	161.5	72.5	341	178	169	M20	295	101.7
280	557.6	149.4	628.1	125	264.4	23	206.9	113.2	412	210	207	M20	350	101.7
315	607.0	149.4	663.1	125	285.2	23	235.5	114.6	482	256	253	M20	400	101.7

d (mm)	M2 (mm)
63	205.3
75	205.3
90	205.3
110	255.2
140	255.2
160	255.2
225	408.1
280	408.1
315	408.1



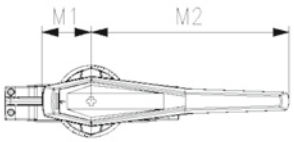
PROGEF Plus Lug-style end installation butterfly valve type 578 silicone free
With hand lever
Flange standard ANSI/ASME

Model:

- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension ANSI/ASME B 16.5 Class 150
- Silicone free/paint-compatible
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

Option:

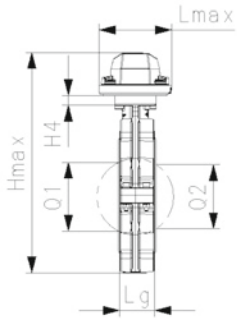
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)



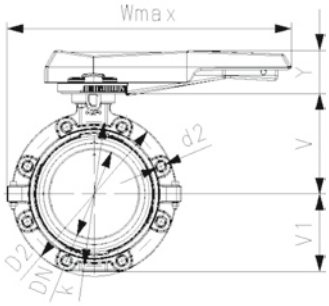
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**167 578 502**	1.800	**167 578 522**	1.800
75	2 ½	65	10	1500	**167 578 503**	1.895	**167 578 523**	1.895
90	3	80	10	2400	**167 578 504**	2.251	**167 578 524**	2.251
110	4	100	10	3800	**167 578 505**	3.146	**167 578 525**	3.146
140	5	125	10	8600	**167 578 506**	4.660	**167 578 526**	4.660
160	6	150	10	11400	**167 578 507**	6.430	**167 578 527**	6.430
225	8	200	10	19900	**167 578 508**	8.625	**167 578 528**	8.625
280	10	250	6	34000	**167 578 509**	19.528	**167 578 529**	19.528
315	12	300	6	50000	**167 578 510**	26.106	**167 578 530**	26.106



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)
63	278.9	115.2	287.8	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	291.8	115.2	296.3	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	303.6	115.2	310.3	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	343.6	115.2	375.2	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	372.8	115.2	391.2	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9
160	393.6	115.2	395.2	90	189.0	23	134.5	71.5	284	139	123	UNC 3/4	241.3
225	458.1	149.4	588.1	90	210.5	23	161.5	72.5	341	178	169	UNC 3/4	298.5
280	557.6	149.4	628.1	125	264.4	23	206.9	113.2	412	210	207	UNC 7/8	362.0
315	607.0	149.4	663.1	125	285.2	23	235.5	114.6	482	256	253	UNC 7/8	431.8



d (mm)	M1 (mm)	M2 (mm)
63	63.7	205.3
75	63.7	205.3
90	63.7	205.3
110	63.7	255.2
140	63.7	255.2
160	63.7	255.2
225	101.7	408.1
280	101.7	408.1
315	101.7	408.1

Diaphragm valves type 317



PROGEF Plus silicone free Diaphragm valve type 317
With flanges metric

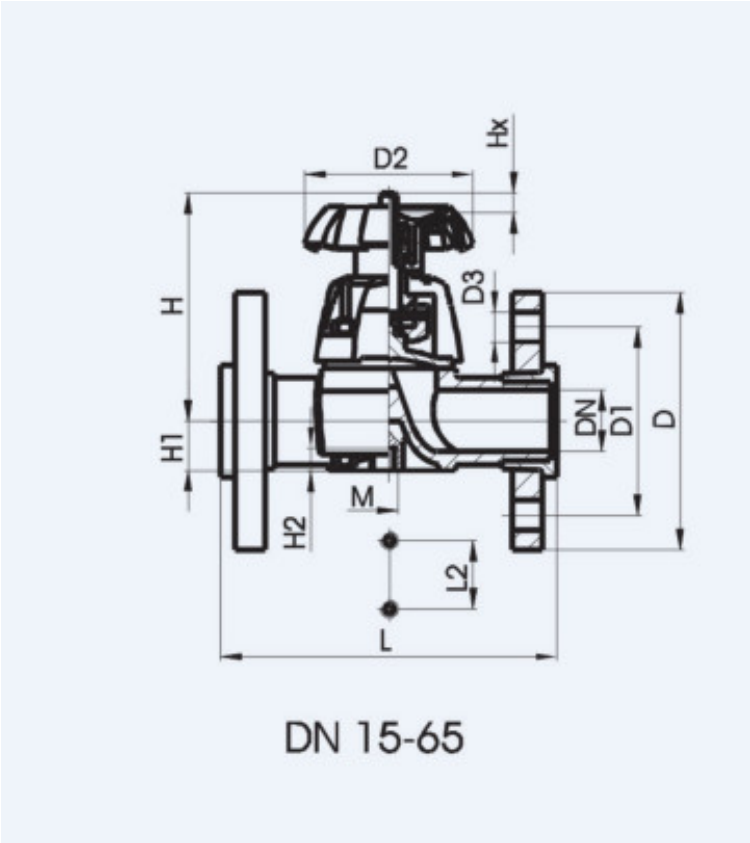
Model:

- Material: PP-H / silicone free cleaned
- DN 80-150 with fixed flange
- Overall length according to EN 558
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504
- Double bagged
- Jointing surfaces: serrated or flat

*** DN80 and DN150 fixed flanges metric and inch ANSI B16.5**

	d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE with EPDM supporting diaphragm Code	Weight (kg)
	75	65	2 ½	10	992	**167 317 218**	4.672	**167 317 233**	5.480
*	90	80	3	10	1700	**167 317 129**	8.026	**167 317 144**	8.061
	110	100	4	10	2700	**167 317 130**	11.315	**167 317 145**	11.360
*	160	150	6	7	6033	**167 317 132**	25.000	**167 317 147**	25.000

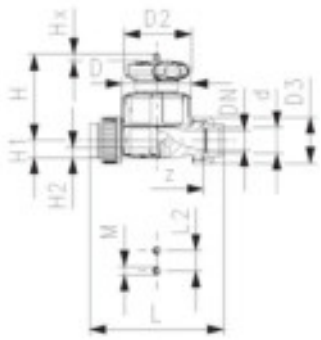
	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	M	Lift = Hx (mm)	AL
	185	145	152	18	210	46	15	290		70		M8	35	4
*	200	160	270	18	265	57	23	310	35	120		M12	40	8
	225	180	270	18	304	69	23	350	38	120		M12	50	8
*	282	241	400	23	437	108	23	480	29	100	200	M12	70	8



DN 15-65

Diaphragm valves type 514





PROGEF Plus silicone free Diaphragm valve type 514
With fusion sockets metric

Model:

- Material: PP-H / silicone free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

Option:

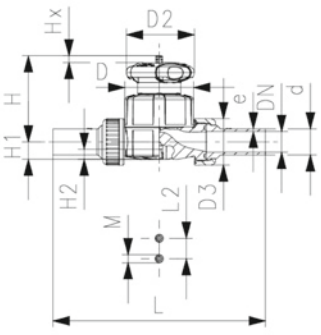
- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	125	**167 514 022**	**167 514 072**	0.371
25	20	¾	10	271	**167 514 023**	**167 514 073**	0.500
32	25	1	10	481	**167 514 024**	**167 514 074**	1.101
40	32	1 ¼	10	759	**167 514 025**	**167 514 075**	1.297
50	40	1 ½	10	1263	**167 514 026**	**167 514 076**	1.376
63	50	2	10	1728	**167 514 027**	**167 514 077**	3.058

d (mm)	D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)	closest inch (inch)
20	65	65	43	73	14	12	128	25	M6	100	7	½
25	80	65	51	81	18	12	150	25	M6	118	10	¾
32	88	87	58	107	22	12	162	25	M6	126	13	1
40	101	87	72	115	26	15	184	45	M8	144	15	1 ¼
50	117	135	83	148	32	15	210	45	M8	164	19	1 ½
63	144	135	100	166	39	15	248	45	M8	194	25	2





PROGEF Plus silicone free Diaphragm valve type 514
With butt fusion spigots SDR11 metric

Model:

- Material: PP-H / silicone free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

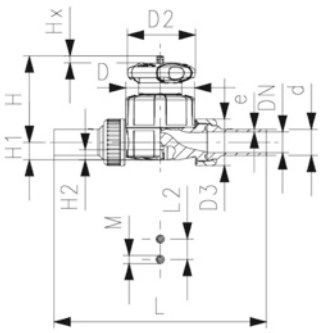
Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	125	**167 514 122**	**167 514 172**	0.274
25	20	¾	10	271	**167 514 123**	**167 514 173**	0.404
32	25	1	10	481	**167 514 124**	**167 514 174**	0.652
40	32	1 ¼	10	759	**167 514 125**	**167 514 175**	0.853
50	40	1 ½	10	1263	**167 514 126**	**167 514 176**	1.453
63	50	2	10	1728	**167 514 127**	**167 514 177**	3.072

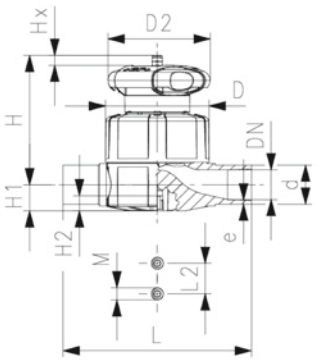
table continued on the next page



d (mm)	D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)	closest inch (inch)
20	65	65	43	73	14	12	196	25	M6	1.9	7	½
25	80	65	51	81	18	12	221	25	M6	2.3	10	¾
32	88	87	58	107	22	12	234	25	M6	2.9	13	1
40	101	87	72	115	26	15	260	45	M8	3.7	15	1 ¼
50	117	135	83	148	32	15	284	45	M8	4.6	19	1 ½
63	144	135	100	166	39	15	321	45	M8	5.8	25	2

Diaphragm valves type 515





PROGEF Plus silicone free Diaphragm valve type 515
With butt fusion spigots SDR11 metric

Model:

- Material: PP-H / silicone free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Overall length EN 558

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

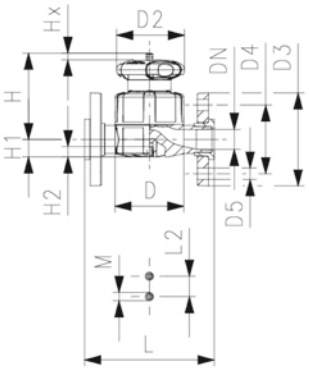
* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	125	**167 515 122**	**167 515 172**	0.307
25	20	¾	10	271	**167 515 123**	**167 515 173**	0.392
32	25	1	10	481	**167 515 124**	**167 515 174**	0.968
40	32	1 ¼	10	759	**167 515 125**	**167 515 175**	0.655
50	40	1 ½	10	1263	**167 515 126**	**167 515 176**	2.082
63	50	2	10	1728	**167 515 127**	**167 515 177**	2.629

d (mm)	D (mm)	D2 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)	closest inch (inch)
20	65	65	73	14	12	124	25	M6	1.9	7	½
25	80	65	81	18	12	144	25	M6	2.3	10	¾
32	88	87	107	22	12	155	25	M6	2.9	13	1
40	101	87	115	26	15	176	45	M8	3.7	15	1 ¼
50	117	135	148	32	15	193	45	M8	4.6	19	1 ½
63	144	135	166	39	15	223	45	M8	5.8	25	2

Diaphragm valves type 517





PROGEF Plus silicone free Diaphragm valve type 517
With backing flanges PP-V metric/BS

Model:

- Material: PP-H / silicone free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Joining faces flat/serrated
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	125	**167 517 122**	**167 517 172**	0.412
25	20	¾	10	271	**167 517 123**	**167 517 173**	0.640
32	25	1	10	481	**167 517 124**	**167 517 174**	1.316
40	32	1 ¼	10	759	**167 517 125**	**167 517 175**	1.660
50	40	1 ½	10	1263	**167 517 126**	**167 517 176**	2.601
63	50	2	10	1728	**167 517 127**	**167 517 177**	3.572

d (mm)	D (mm)	D2 (mm)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)	closest inch (inch)
20	65	65	95	65	14	73	14	12	130	25	M6	7	½
25	80	65	105	75	14	81	18	12	150	25	M6	10	¾
32	88	87	115	85	14	107	22	12	160	25	M6	13	1
40	101	87	140	100	18	115	26	15	180	45	M8	15	1 ¼
50	117	135	150	110	18	148	32	15	200	45	M8	19	1 ½
63	144	135	165	125	18	166	39	15	230	45	M8	25	2



PROGEF Plus oil free
Diaphragm valve type 517
With fixed flanges PP-H JIS

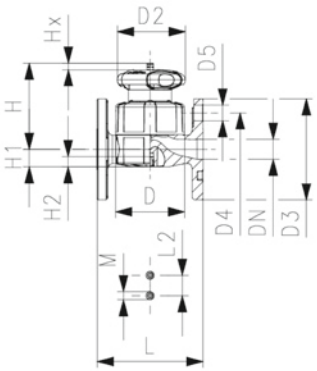
Model:

- Material: PP-H/oil free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

* O-Ring material: FKM

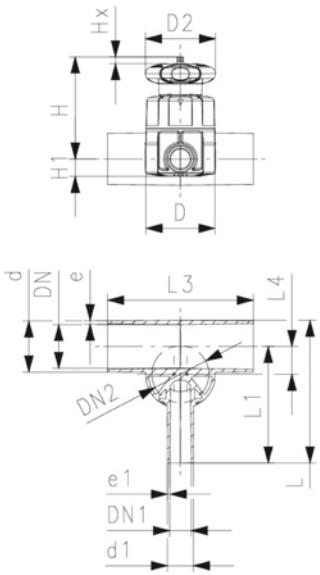


Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
½	15	10	125	**167 517 922**	0.426	**167 517 972**	0.434
¾	20	10	271	**167 517 923**	0.504	**167 517 973**	0.514
1	25	10	481	**167 517 924**	1.149	**167 517 974**	1.168
1 ¼	32	10	759	**167 517 925**	1.443	**167 517 975**	1.462
1 ½	40	10	1263	**167 517 926**	2.420	**167 517 976**	2.449
2	50	10	1728	**167 517 927**	3.055	**167 517 977**	3.082

Size (inch)	D (mm)	D2 (mm)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)
½	65	65	95	70	15	73	14	12	110	25	M6	7
¾	80	65	100	75	15	81	18	12	120	25	M6	10
1	88	87	125	90	19	107	22	12	130	25	M6	13
1 ¼	101	87	135	100	19	115	26	15	180	45	M8	15
1 ½	117	135	140	105	19	148	32	15	180	45	M8	19
2	144	135	155	120	19	166	39	15	210	45	M8	25

Diaphragm valves type 519





PROGEF Plus silicone free Diaphragm valve type 519
With butt fusion spigots SDR11 metric

Model:

- Material: PP-H / silicone free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Smallest possible dead space

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

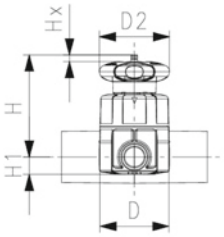
* O-Ring material: FKM

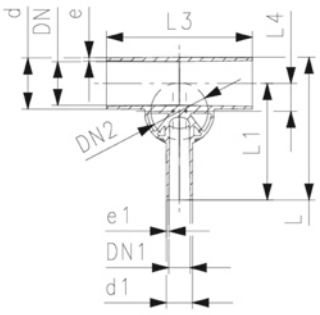
d (mm)	d1 (mm)	DN (mm)	DN1 (mm)	Size (inch)	kv-value (Δp=1 bar) (l/min)	Valve Size d (mm)	SDR	PN (bar)	EPDM Code	Weight (kg)
20	20	15	15	½	57	20	11	10	**167 519 201**	0.312
25	20	20	15	¾	89	25	11	10	**167 519 203**	0.387
25	25	20	20	¾	118	25	11	10	**167 519 204**	0.388
32	20	25	15	1	80	25	11	10	**167 519 207**	0.414
32	25	25	20	1	105	25	11	10	**167 519 208**	0.416
32	32	25	25	1	231	32	11	10	**167 519 209**	0.490
40	20	32	15	1 ¼	85	32	11	10	**167 519 212**	0.988
40	40	32	32	1 ¼	187	40	11	10	**167 519 215**	1.014
50	20	40	15	1 ½	86	25	11	10	**167 519 218**	0.474
50	25	40	20	1 ½	160	32	11	10	**167 519 219**	0.705
50	32	40	25	1 ½	206	32	11	10	**167 519 220**	1.036
63	20	50	15	2	84	25	11	10	**167 519 225**	0.513
63	25	50	20	2	150	32	11	10	**167 519 226**	1.077
63	32	50	25	2	184	32	11	10	**167 519 227**	1.080

d (mm)	d1 (mm)	PTFE/ EPDM* Code	Weight (kg)
20	20	**167 519 701**	0.322
25	20	**167 519 703**	0.398
25	25	**167 519 704**	0.399
32	20	**167 519 707**	0.424
32	25	**167 519 708**	0.427
32	32	**167 519 709**	0.980
40	20	**167 519 712**	0.675
40	40	**167 519 715**	0.575
50	20	**167 519 718**	0.485
50	25	**167 519 719**	0.610
50	32	**167 519 720**	1.056
63	20	**167 519 725**	0.525
63	25	**167 519 726**	1.097
63	32	**167 519 727**	1.100

d (mm)	d1 (mm)	D (mm)	D2 (mm)	H (mm)	L (mm)	L1 (mm)	L3 (mm)	L4 (mm)	e (mm)	Lift = Hx (mm)	DN2 (mm)	e1 (mm)
20	20	65	65	75	117	96	162	12	1.9	7	15	1.9
25	20	80	65	80	133	108	162	16	2.3	10	20	1.9
25	25	80	65	80	133	108	162	16	2.3	10	20	2.3
32	20	80	65	84	142	120	162	19	2.9	10	20	1.9
32	25	80	65	84	142	120	162	19	2.9	10	20	2.3
32	32	88	87	107	145	120	160	19	2.9	13	25	2.9
40	20	88	87	115	149	128	180	23	3.7	13	25	1.9
40	40	88	87	115	174	153	180	23	3.7	13	25	3.7
50	20	80	65	97	160	134	180	27	4.6	10	20	1.9

table continued on the next page





d (mm)	d1 (mm)	D (mm)	D2 (mm)	H (mm)	L (mm)	L1 (mm)	L3 (mm)	L4 (mm)	e (mm)	Lift = Hx (mm)	DN2 (mm)	e1 (mm)
50	25	88	87	120	160	134	180	28	4.6	13	25	2.3
50	32	88	87	120	160	134	180	28	4.6	13	25	2.9
63	20	80	65	104	177	144	180	33	5.8	10	20	1.9
63	25	88	87	127	177	144	180	35	5.8	13	25	2.3
63	32	88	87	127	177	144	180	35	5.8	13	25	2.9

Diaphragm valves pneumatic DIASTAR Six



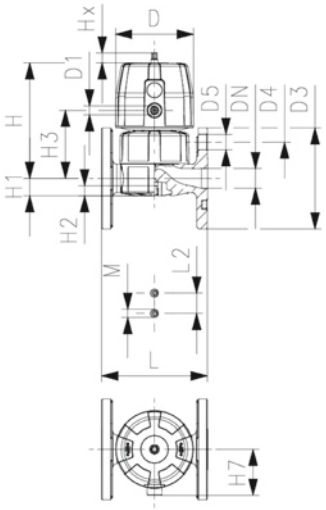
PROGEF Plus oil free
Diaphragm valve DIASTAR Six
FC (Fail safe to close)
With fixed flanges PP-H JIS

Model:

- Material: PP-H/oil free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve

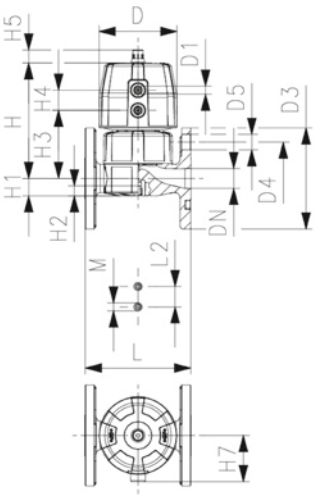


Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
¾	20	6	271	**167 617 923**	1.023
1	25	6	481	**167 617 924**	1.263
1 ¼	32	6	759	**167 617 925**	2.082
1 ½	40	6	960	**167 617 926**	2.570
2	50	6	1181	**167 617 927**	3.432

Size (inch)	D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)
¾	96	⅛	100	75	15	132	18	12	73	57	120	25	M6	10
1	96	⅛	125	90	19	143	22	12	84	69	130	25	M6	13
1 ¼	120	⅛	135	100	19	173	26	15	99	69	180	45	M8	14
1 ½	120	⅛	140	105	19	193	32	15	119	69	180	45	M8	16
2	120	⅛	155	120	19	205	39	15	132	69	210	45	M8	16

Diaphragm valves pneumatic DIASTAR Ten





PROGEF Plus oil free
Diaphragm valve DIASTAR Ten
DA (Double acting)
With fixed flanges PP-H JIS

Model:

- Material: PP-H/oil free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM

Size (inch)	DN (mm)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
½	15	10/10*	125	**167 657 922**	0.554	**167 657 972**	0.562
¾	20	10/10*	271	**167 657 923**	0.888	**167 657 973**	0.898
1	25	10/10*	481	**167 657 924**	1.125	**167 657 974**	1.144
1 ¼	32	10/10*	759	**167 657 925**	1.812	**167 657 975**	1.831
1 ½	40	10/10*	1263	**167 657 926**	2.868	**167 657 976**	2.897
2	50	10/10*	1728	**167 657 927**	3.513	**167 657 977**	3.540

Size (inch)	D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
½	68	⅛	95	70	15	101	14	12	60	24	16	57	110	25	M6
¾	96	⅛	100	75	15	132	18	12	73	25	16	57	120	25	M6
1	96	⅛	125	90	19	143	22	12	84	25	16	69	130	25	M6
1 ¼	120	⅛	135	100	19	173	26	15	99	26	26	88	180	45	M8
1 ½	150	¼	140	105	19	214	32	15	119	36	26	103	180	45	M8
2	150	¼	155	120	19	226	39	15	132	36	26	103	210	45	M8

Size (inch)	Lift = Hx (mm)
½	7
¾	10
1	13
1 ¼	15
1 ½	19
2	23



PROGEF Plus oil free
Diaphragm valve DIASTAR Ten
FO (Fail safe to open)
With fixed flanges PP-H JIS

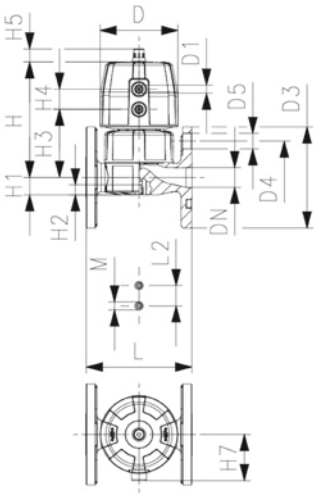
Model:

- Material: PP-H/oil free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM



Size (inch)	DN (mm)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
½	15	10/10*	125	**167 647 922**	0.570	**167 647 972**	0.578
¾	20	10/10*	271	**167 647 923**	0.924	**167 647 973**	0.934
1	25	10/10*	481	**167 647 924**	1.155	**167 647 974**	1.174
1 ¼	32	10/10*	759	**167 647 925**	1.872	**167 647 975**	1.891
1 ½	40	10/10*	1263	**167 647 926**	3.618	**167 647 976**	3.647
2	50	10/10*	1728	**167 647 927**	4.263	**167 647 977**	4.290

Size (inch)	D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
½	68	⅛	95	70	15	101	14	12	60	24	16	57	110	25	M6
¾	96	⅛	100	75	15	132	18	12	73	25	16	57	120	25	M6
1	96	⅛	125	90	19	143	22	12	84	25	16	69	130	25	M6
1 ¼	120	⅛	135	100	19	173	26	15	99	26	26	88	180	45	M8
1 ½	150	¼	140	105	19	214	32	15	119	36	26	103	180	45	M8
2	150	¼	155	120	19	226	39	15	132	36	26	103	210	45	M8

Size (inch)	Lift = Hx (mm)
½	7
¾	10
1	13
1 ¼	15
1 ½	19
2	23

Diaphragm valves pneumatic DIASTAR TenPlus



PROGEF Plus oil free Diaphragm valve DIASTAR TenPlus
FC (Fail safe to close) low pressure
With fixed flanges PP-H JIS

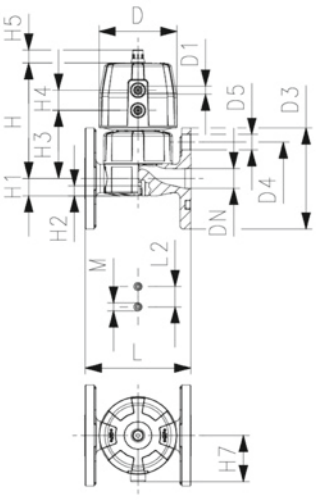
Model:

- Material: PP-H/oil free cleaned
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **both sides**
* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	8*	125	**167 687 922**	1.020	**167 687 972**	1.028
25	20	¾	10	8*	271	**167 687 923**	1.098	**167 687 973**	1.108
32	25	1	10	8*	481	**167 687 924**	1.929	**167 687 974**	1.948
40	32	1 ¼	10	8*	759	**167 687 925**	3.302	**167 687 975**	3.321
50	40	1 ½	10	8*	1263	**167 687 926**	5.116	**167 687 976**	5.145
63	50	2	10	6*	1728	**167 687 927**	5.760	**167 687 977**	5.787

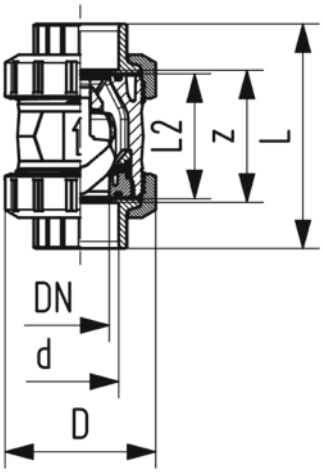
D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
96	⅛	95	70	15	127	14	12	68	25	16	57	110	25	M6
96	⅛	100	75	15	132	18	12	73	25	16	57	120	25	M6
120	⅛	125	90	19	167	22	12	93	26	26	69	130	25	M6
150	¼	135	100	19	196	26	15	101	36	26	88	180	45	M8
180	¼	140	105	19	239	32	15	124	37	26	103	180	45	M8
180	¼	155	120	19	251	39	15	137	37	26	103	210	45	M8

Lift = Hx (mm)
7
10
13
15
19
23

Cone check valves

Type 561





PROGEF Plus Check valve type 561 silicone free
Without spring
With fusion sockets metric

Model:

- Material: PP-H / silicone free cleaned
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	10	190	**167 561 201**	0.080	**167 561 211**	0.080
20	15	10	180	**167 561 202**	0.080	**167 561 212**	0.080
25	20	10	380	**167 561 203**	0.170	**167 561 213**	0.180
32	25	10	460	**167 561 204**	0.190	**167 561 214**	0.190
40	32	10	850	**167 561 205**	0.330	**167 561 215**	0.340
50	40	10	1080	**167 561 206**	0.480	**167 561 216**	0.480
63	50	10	1670	**167 561 207**	0.880	**167 561 217**	0.880
75	65	10	2950	**167 561 208**	2.300	**167 561 218**	2.310
90	80	10	3600	**167 561 209**	3.560	**167 561 219**	3.580
110	100	10	4150	**167 561 210**	5.900	**167 561 220**	5.930

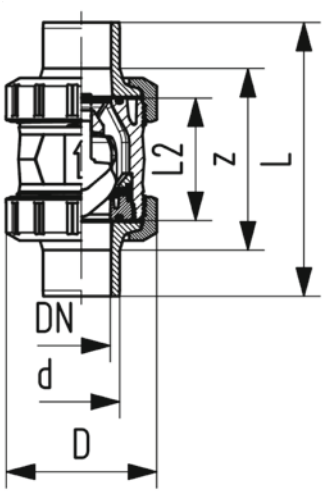
d (mm)	D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
16	50	93	56	67	⅜
20	50	95	56	66	½
25	58	109	65	77	¾
32	68	119	71	83	1
40	84	135	85	99	1 ¼
50	97	147	89	105	1 ½
63	124	168	101	117	2
75	166	233	136	167	2 ½
90	200	254	141	180	3
110	238	301	164	215	4



PROGEF Plus Check valve type 561 silicone free
Without spring
With socket fusion spigots metric

Model:

- Material: PP-H / silicone free cleaned
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	10	190	**167 561 221**	0.080	**167 561 231**	0.080
20	15	10	180	**167 561 222**	0.090	**167 561 232**	0.090
25	20	10	380	**167 561 223**	0.170	**167 561 233**	0.190
32	25	10	460	**167 561 224**	0.200	**167 561 234**	0.200
40	32	10	850	**167 561 225**	0.340	**167 561 235**	0.350
50	40	10	1080	**167 561 226**	0.510	**167 561 236**	0.510
63	50	10	1670	**167 561 227**	0.940	**167 561 237**	0.950
75	65	10	2950	**167 561 228**	2.360	**167 561 238**	2.370
90	80	10	3600	**167 561 229**	3.730	**167 561 239**	3.750
110	100	10	4150	**167 561 230**	5.960	**167 561 240**	5.980

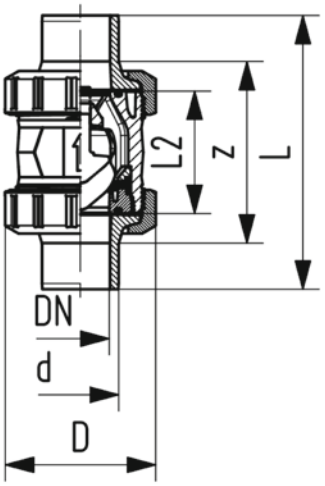
d (mm)	D (mm)	L (mm)	L2 (mm)	L3 (mm)	closest inch (inch)
16	50	110	56		⅜
20	50	120	56	130	½
25	58	139	65	150	¾
32	68	150	71	160	1
40	84	170	85	180	1 ¼
50	97	190	89	200	1 ½
63	124	220	101	230	2
75	166	280	136	290	2 ½
90	200	296	141	310	3
110	238	336	164	350	4



PROGEF Plus Check valve type 561 silicone free
Without spring
With butt fusion spigots IR-Plus SDR11 metric

Model:

- Material: PP-H / silicone free cleaned
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

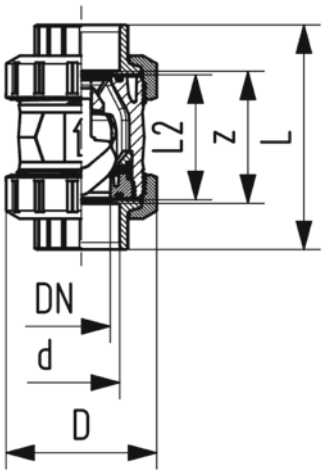


d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	10	180	**167 561 242**	0.080	**167 561 252**	0.080
25	20	10	380	**167 561 243**	0.170	**167 561 253**	0.180
32	25	10	460	**167 561 244**	0.190	**167 561 254**	0.190
40	32	10	850	**167 561 245**	0.340	**167 561 255**	0.340
50	40	10	1080	**167 561 246**	0.490	**167 561 256**	0.490
63	50	10	1670	**167 561 247**	0.930	**167 561 257**	0.930
75	65	10	2950	**167 561 248**	2.350	**167 561 258**	2.360
90	80	10	3600	**167 561 249**	3.660	**167 561 259**	3.680
110	100	10	4150	**167 561 250**	5.810	**167 561 260**	5.830

d (mm)	D (mm)	L (mm)	L2 (mm)	e (mm)	closest inch (inch)
20	50	130	56	1.9	½
25	58	143	65	2.3	¾
32	68	150	71	2.9	1
40	84	171	85	3.7	1 ¼
50	97	191	89	4.6	1 ½
63	124	220	101	5.8	2
75	166	266	136	6.8	2 ½
90	200	264	141	8.2	3
110	238	301	164	10.0	4

Type 562





PROGEF Plus silicone free Check valve type 562
With fusion sockets metric

Model:

- Material: PP-H / silicone free cleaned
- For horizontal or vertical installation
- 100% leak-tight in the closed/idle state, independent of installation orientation and without hydrostatic head
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	10	190	**167 562 201**	0.080	**167 562 211**	0.080
20	15	10	180	**167 562 202**	0.080	**167 562 212**	0.080
25	20	10	380	**167 562 203**	0.170	**167 562 213**	0.180
32	25	10	460	**167 562 204**	0.190	**167 562 214**	0.190
40	32	10	850	**167 562 205**	0.330	**167 562 215**	0.340
50	40	10	1080	**167 562 206**	0.480	**167 562 216**	0.480
63	50	10	1670	**167 562 207**	0.880	**167 562 217**	0.880
75	65	10	2950	**167 562 208**	2.300	**167 562 218**	2.310
90	80	10	3600	**167 562 209**	3.560	**167 562 219**	3.580
110	100	10	4150	**167 562 210**	5.900	**167 562 220**	5.930

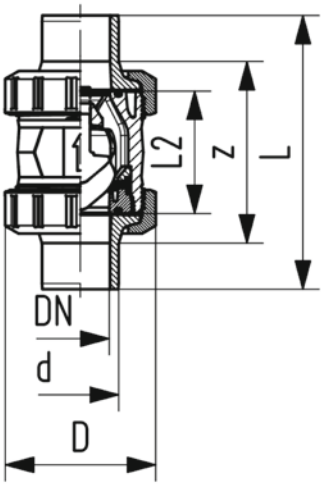
d (mm)	D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
16	50	93	56	67	⅜
20	50	95	56	66	½
25	58	109	65	77	¾
32	68	119	71	83	1
40	84	135	85	99	1 ¼
50	97	147	89	105	1 ½
63	124	168	101	117	2
75	166	233	136	167	2 ½
90	200	254	141	180	3
110	238	301	164	215	4



PROGEF Plus silicone free Check valve type 562
With socket fusion spigots metric

Model:

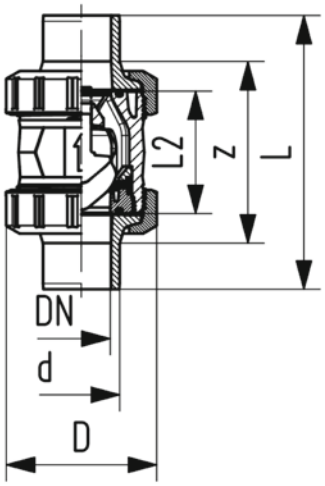
- Material: PP-H / silicone free cleaned
- For horizontal or vertical installation
- 100% leak-tight in the closed/idle state, independent of installation orientation and without hydrostatic head
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	10	190	**167 562 221**	0.080	**167 562 231**	0.080
20	15	10	180	**167 562 222**	0.090	**167 562 232**	0.090
25	20	10	380	**167 562 223**	0.170	**167 562 233**	0.190
32	25	10	460	**167 562 224**	0.200	**167 562 234**	0.200
40	32	10	850	**167 562 225**	0.340	**167 562 235**	0.350
50	40	10	1080	**167 562 226**	0.510	**167 562 236**	0.510
63	50	10	1670	**167 562 227**	0.940	**167 562 237**	0.950
75	65	10	2950	**167 562 228**	2.360	**167 562 238**	2.370
90	80	10	3600	**167 562 229**	3.730	**167 562 239**	3.750
110	100	10	4150	**167 562 230**	5.960	**167 562 240**	5.980

d (mm)	D (mm)	L (mm)	L2 (mm)	closest inch (inch)
16	50	110	56	⅜
20	50	120	56	½
25	58	139	65	¾
32	68	150	71	1
40	84	170	85	1 ¼
50	97	190	89	1 ½
63	124	220	101	2
75	166	280	136	2 ½
90	200	296	141	3
110	238	336	164	4





PROGEF Plus silicone free Check valve type 562
With butt fusion spigots IR-Plus
SDR11 metric

Model:

- Material: PP-H / silicone free cleaned
- For horizontal or vertical installation
- 100% leak-tight in the closed/idle state, independent of installation orientation and without hydrostatic head
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	10	180	**167 562 242**	0.080	**167 562 252**	0.080
25	20	10	380	**167 562 243**	0.170	**167 562 253**	0.180
32	25	10	460	**167 562 244**	0.190	**167 562 254**	0.190
40	32	10	850	**167 562 245**	0.340	**167 562 255**	0.340
50	40	10	1080	**167 562 246**	0.490	**167 562 256**	0.490
63	50	10	1670	**167 562 247**	0.930	**167 562 257**	0.930
75	65	10	2950	**167 562 248**	2.350	**167 562 258**	2.360
90	80	10	3600	**167 562 249**	3.660	**167 562 259**	3.680
110	100	10	4150	**167 562 250**	5.810	**167 562 260**	5.830

d (mm)	D (mm)	L (mm)	L2 (mm)	e (mm)	closest inch (inch)
20	50	130	56	1.9	½
25	58	143	65	2.3	¾
32	68	150	71	2.9	1
40	84	171	85	3.7	1 ¼
50	97	191	89	4.6	1 ½
63	124	220	101	5.8	2
75	166	266	136	6.8	2 ½
90	200	264	141	8.2	3
110	238	301	164	10.0	4

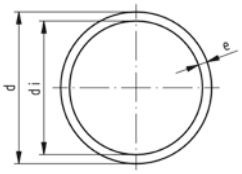
PROGEF Natural



PROGEF Natural		Page
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Pipes





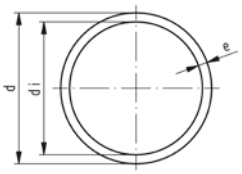
PROGEF Natural pipe SDR11/PN10/S5

Model:

- Material: PP-R
- Dimension: acc. to EN 15494
- Colour: natural
- Pipe length: 5000mm, with plain ends
- both ends closed with caps, single bagged in foil

d (mm)	PN (bar)	Code	Weight (kg/m)	e (mm)
20	10	**168 480 151**	0.107	1.9
25	10	**168 480 152**	0.164	2.3
32	10	**168 480 153**	0.261	2.9
40	10	**168 480 154**	0.412	3.7
50	10	**168 480 155**	0.638	4.6
63	10	**168 480 156**	1.010	5.8





PROGEF Natural pipe SDR17,6/PN6/S8,3

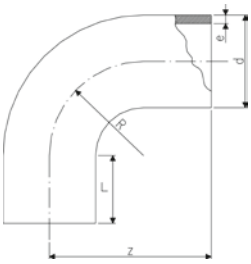
Model:

- Material: PP-R
- Dimension: acc. to EN 15494
- Colour: natural
- Pipe length: 5000mm, with plain ends
- both ends closed with caps, single bagged in foil

d (mm)	PN (bar)	Code	Weight (kg/m)	e (mm)
75	6	**168 480 282**	0.935	4.3
90	6	**168 480 283**	1.330	5.1
110	6	**168 480 284**	1.990	6.3

Butt fusion fittings





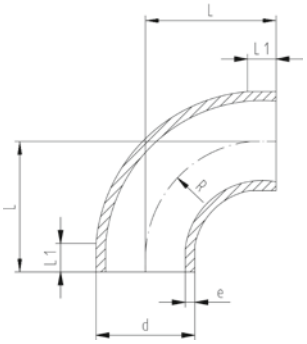
PROGEF Natural Bend 90°
SDR11/PN10

Model:

- Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207

d (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	e (mm)	z (mm)	R (mm)
20	10	BCF, IR	**728 018 606**	0.007	23	1.9	38	15
25	10	BCF, IR	**728 018 607**	0.012	23	2.3	42	19
32	10	BCF, IR	**728 018 608**	0.026	22	2.9	46	24
40	10	BCF, IR	**728 018 609**	0.038	21	3.7	51	30
50	10	BCF, IR	**728 018 610**	0.065	21	4.6	58	37
63	10	BCF, IR	**728 018 611**	0.115	21	5.8	66	45





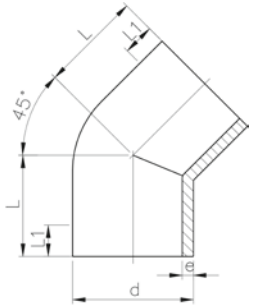
PROGEF Natural Bend 90°
SDR17.6/PN6

Model:

- Material: PP-R unpigmented
- Colour: natural
- Bead and crevice free weldable with the new BCF fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207

d (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	R (mm)	e (mm)
75	6	BCF, IR	**728 018 612**	0.126	75	21	71.25	4.5
90	6	BCF, IR	**728 018 613**	0.218	90	22	85.50	5.4
110	6	BCF, IR	**728 018 614**	0.380	110	25	104.50	6.6





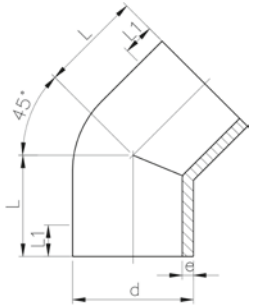
PROGEF Natural Elbow 45°
SDR11/PN10

Model:

- Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207

d (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
20	10	BCF, IR	**728 158 506**	0.007	32	24	1.9
25	10	BCF, IR	**728 158 507**	0.002	34	25	2.3
32	10	BCF, IR	**728 158 508**	0.019	36	25	2.9
40	10	BCF, IR	**728 158 509**	0.037	39	25	3.7
50	10	BCF, IR	**728 158 510**	0.054	42	26	4.6
63	10	BCF, IR	**728 158 511**	0.097	47	29	5.8





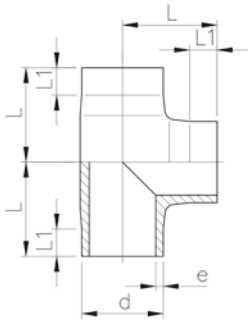
PROGEF Natural Elbow 45°
SDR17.6/PN6

Model:

- Material: PP-R unpigmented
- Colour: natural
- Bead and crevice free weldable with the new BCF fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207

d (mm)	SDR	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
75	17.6	6	BCF, IR	**728 158 412**	0.099	49	21	4.3
90	17.6	6	BCF, IR	**728 158 413**	0.164	57	21	5.1
110	17.6	6	BCF, IR	**728 158 414**	0.293	70	38	6.3





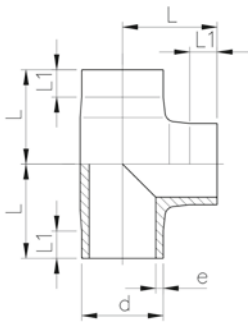
PROGEF Natural Tee 90° equal SDR11/PN10

Model:

- Material: PP-R unpigmented
- Colour: natural
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207

d (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
20	10	BCF, IR	**728 208 506**	0.011	38	21	1.9
25	10	BCF, IR	**728 208 507**	0.018	42	21	2.3
32	10	BCF, IR	**728 208 508**	0.032	46	21	2.9
40	10	BCF, IR	**728 208 509**	0.059	51	23	3.7
50	10	BCF, IR	**728 208 510**	0.101	58	22	4.6
63	10	BCF, IR	**728 208 511**	0.182	66	20	5.8





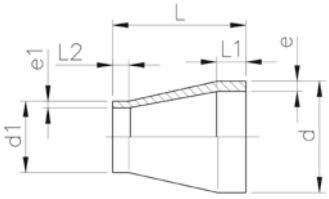
PROGEF Natural Tee 90° equal SDR17.6/PN6

Model:

- Material: PP-R unpigmented
- Colour: natural
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207

d (mm)	SDR	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
75	17.6	6	BCF, IR	**728 208 412**	0.230	75	20	4.3
90	17.6	6	BCF, IR	**728 208 413**	0.401	90	20	5.1
110	17.6	6	BCF, IR	**728 208 414**	0.723	110	20	6.3





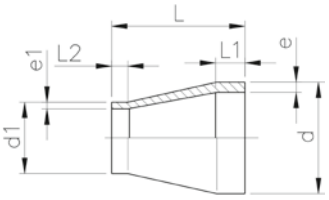
PROGEF Natural Reducer SDR11/PN10

Model:

- Material: PP-R unpigmented
- Colour: natural
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207

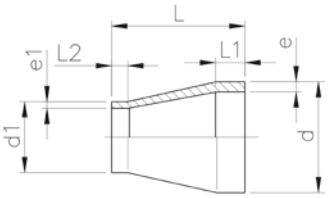
d (mm)	d1 (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	e1 (mm)
25	20	10	BCF, IR	**728 908 537**	0.007	50	20	20	2.3	1.9
32	20	10	BCF, IR	**728 908 542**	0.010	50	20	20	3.0	1.9
32	25	10	BCF, IR	**728 908 541**	0.011	50	20	20	3.0	2.3
40	20	10	BCF, IR	**728 908 548**	0.015	58	20	23	3.7	1.9
40	25	10	BCF, IR	**728 908 547**	0.016	55	20	20	3.7	2.3
40	32	10	BCF, IR	**728 908 546**	0.019	55	20	20	3.7	2.9
50	25	10	BCF, IR	**728 908 554**	0.025	60	20	20	4.6	2.3

table continued on the next page



d (mm)	d1 (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	e1 (mm)
50	32	10	BCF, IR	**728 908 553**	0.027	60	20	20	4.6	2.9
50	40	10	BCF, IR	**728 908 552**	0.030	60	20	20	4.6	3.7
63	32	10	BCF, IR	**728 908 560**	0.043	65	20	20	5.8	2.9
63	40	10	BCF, IR	**728 908 559**	0.047	65	20	20	5.8	3.7
63	50	10	BCF, IR	**728 908 558**	0.052	65	20	20	5.8	4.6





PROGEF Natural Reducer SDR17.6/PN6

Model:

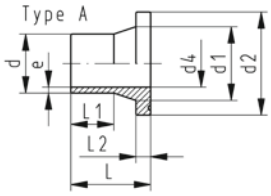
- Material: PP-R unpigmented
- Colour: natural
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207

* SDR17,6 - SDR11

	d (mm)	d1 (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	e1 (mm)
*	75	40	6	BCF, IR	**728 908 466**	0.048	68	20	23	4.3	3.7
*	75	50	6	BCF, IR	**728 908 465**	0.051	65	20	20	4.3	4.6
*	75	63	6	BCF, IR	**728 908 464**	0.060	65	20	20	4.3	5.8
*	90	63	6	BCF, IR	**728 908 471**	0.087	75	22	19	5.1	5.8
	90	75	6	BCF, IR	**728 908 470**	0.086	75	21	19	5.1	4.3
*	110	63	6	BCF, IR	**728 908 472**	0.145	90	28	28	6.3	5.8
	110	75	6	BCF, IR	**728 908 477**	0.135	90	26	20	6.3	4.3
	110	90	6	BCF, IR	**728 908 476**	0.154	90	25	22	6.3	5.1

Butt fusion flange adaptors, flanges and gasket





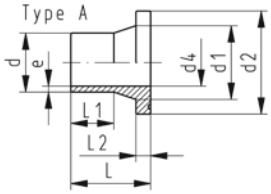
PROGEF Natural Flange adaptor
SDR11/PN10 combined jointing face: flat and serrated

Model:

- Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Gasket: profile flange gasket EPDM No. 48 44 07, FKM No. 49 44 07

d (mm)	DN (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	d1 (mm)	d2 (mm)	d4 (mm)
20	15	10	BCF/IR	**728 798 706**	0.015	50	29	7	1.9	27	45	16
25	20	10	BCF/IR	**728 798 707**	0.028	52	27	9	2.3	33	58	20
32	25	10	BCF/IR	**728 798 708**	0.042	54	28	10	3.0	40	68	26
40	32	10	BCF/IR	**728 798 709**	0.064	56	25	11	3.7	50	78	32
50	40	10	BCF/IR	**728 798 710**	0.092	62	32	12	4.6	61	88	40
63	50	10	BCF/IR	**728 798 711**	0.139	68	38	14	5.8	75	102	51





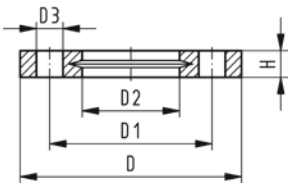
PROGEF Natural Flange adaptor
SDR17.6/PN6 combined jointing face: flat and serrated

Model:

- Material: PP-R unpigmented
- Colour: natural
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207

d (mm)	SDR	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	d1 (mm)	d2 (mm)	d4 (mm)
75	17.6	6	BCF, IR	**728 798 787**	0.202	80	43	16	4.8	89	121	65
90	17.6	6	BCF, IR	**728 798 788**	0.271	80	41	17	5.7	105	138	78
110	17.6	6	BCF, IR	**728 798 789**	0.354	80	40	18	6.9	125	158	96





Flanges PP-V (full plastic)

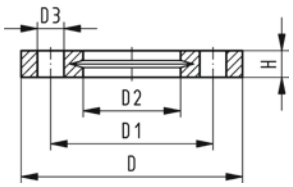
Model:

- Full-plastic flange PP-GF (30 % glass-fibre reinforced)
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D2024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes

d (mm)	DN (mm)	d (inch)	PN (bar)	Bolt / circle	Design	Code	Weight (kg)
20	15		16	PN10	Butt/Socket	**727 700 406**	0.093
25	20		16	PN10	Butt/Socket	**727 700 407**	0.120
32	25		16	PN10	Butt/Socket	**727 700 408**	0.151
40	32		16	PN10	Butt/Socket	**727 700 409**	0.244
50	40		16	PN10	Butt/Socket	**727 700 410**	0.297
63	50		16	PN10	Butt/Socket	**727 700 411**	0.362
75	65		16	PN10	Butt/Socket	**727 700 412**	0.487
90	80		16	PN10	Butt	**727 700 513**	0.544
110	100		16	PN10	Butt	**727 700 514**	0.643

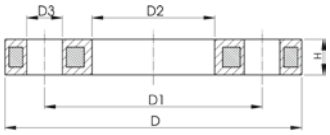
table continued on the next page



d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	Hmax (mm)	AL	M
20	95	65	28	14	16	4	M12
25	105	75	34	14	17	4	M12
32	115	85	42	14	18	4	M12
40	140	100	51	18	20	4	M16
50	150	110	62	18	22	4	M16
63	165	125	78	18	24	4	M16
75	185	145	92	18	26	4	M16
90	200	160	108	18	27	8	M16
110	220	180	128	18	28	8	M16







Flanges PP-Steel

Model:

- Material: PP (30% glass-fibre reinforced) with steel ring
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D4024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

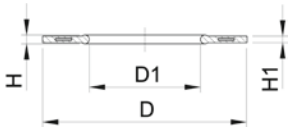
AL: number of holes
* FM 1613 approved - 15 bar
** Profiled loose flange

	d (mm)	Size (inch)	DN (mm)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
	20		15	16	Metric	PN10	Butt/Socket	**727 700 206**	0.216
	25		20	16	Metric	PN10	Butt/Socket	**727 700 207**	0.279
	32		25	16	Metric	PN10	Butt/Socket	**727 700 208**	0.429
	40		32	16	Metric	PN10	Butt/Socket	**727 700 209**	0.621
	50		40	16	Metric	PN10	Butt/Socket	**727 700 210**	0.722
	63	2	50	16	Metric	PN10	Butt/Socket	**727 700 211**	0.900
	75		65	16	Metric	PN10	Butt/Socket	**727 700 212**	1.110
*	90		80	16	Metric	PN10	Butt	**724 700 313**	1.390
*	110		100	16	Metric	PN10	Butt	**724 700 314**	1.407
	110		100	16	Metric	PN10	Butt	**727 700 314**	1.407
	140	5	125	16	ASME	class 150	Butt	**727 701 315**	2.575

	d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	Hmax (mm)	AL	M
	20	95	65	28	14	12	4	M12
	25	105	75	34	14	12	4	M12
	32	115	85	42	14	16	4	M12
	40	140	100	51	18	16	4	M16
	50	150	110	62	18	20	4	M16
	63	165	125	78	18	20	4	M16
	75	185	145	92	18	20	4	M16
*	90	200	160	108	18	20	8	M16
*	110	223	180	128	18	20	8	M16
	110	220	180	128	18	20	8	M16
	140	253	216	158	21	24	8	M16







Profile Flange Gasket EPDM/FKM metric

Model:

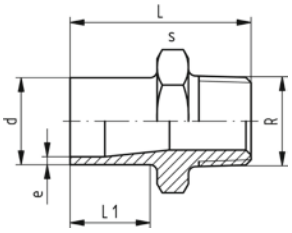
- For all metric GF Flange Adaptors
- Hardness: 70° Shore EPDM, 75° Shore FKM
- EPDM: approved acc. to DVGW Water W 270, KTW recommendation
- Centering on the inner diameter of the screw crown
- material steel insert: carbon steel
- Rubber-steel body combined with rubber profile cord ring up to d630
- Rubber-steel body ideal for big dimensions (d710 - d1000)

di FA are the suitable inner diameters of flanges adaptors

d (mm)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)	H1 (mm)
20	15	16	**748 440 706**	0.009	**749 440 706**	0.013	51	20	4	3
25	20	16	**748 440 707**	0.015	**749 440 707**	0.014	61	22	4	3
32	25	16	**748 440 708**	0.013	**749 440 708**	0.019	71	28	4	3
40	32	16	**748 440 709**	0.019	**749 440 709**	0.026	82	40	4	3
50	40	16	**748 440 710**	0.029	**749 440 710**	0.039	92	46	4	3
63	50	16	**748 440 711**	0.041	**749 440 711**	0.050	107	58	5	4
75	65	16	**748 440 712**	0.053	**749 440 712**	0.082	127	69	5	4
90	80	16	**748 440 713**	0.064	**749 440 713**	0.083	142	84	5	4
110	100	16	**748 440 714**	0.100	**749 440 714**	0.127	162	104	6	5

Butt fusion transition fittings





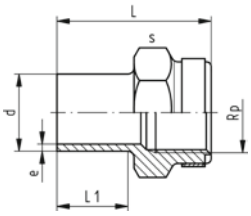
PROGEF Natural Adaptor nipple SDR11/PN10 Metric R

Model:

- Material: PP-R unpigmented
- With butt fusion spigot SDR11 and tapered male thread
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	s (mm)	e (mm)
20	R	½	10	BCF, IR	**728 918 106**	0.013	51	28	32	1.9
25	R	¾	10	BCF, IR	**728 918 107**	0.017	52	28	36	2.3
32	R	1	10	BCF, IR	**728 918 108**	0.027	55	28	46	2.9
40	R	1 ¼	10	BCF, IR	**728 918 109**	0.037	58	28	55	3.7
50	R	1 ½	10	BCF, IR	**728 918 110**	0.052	60	28	65	4.6
63	R	2	10	BCF, IR	**728 918 111**	0.092	67	28	80	5.8





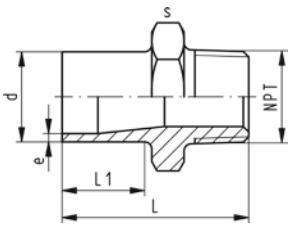
PROGEF Natural Adaptor socket SDR11/PN10 Metric Rp

Model:

- With butt fusion spigot **SDR11** and BSP parallel female thread Rp, reinforced
- Connection to plastic or metal threads
- Reinforcing ring stainless (A2)
- Material: PP-R unpigmented
- Do not use thread sealing pastes that are harmful to PP

d (mm)	Size (inch)	PN (bar)	FM	Thread Type	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)	s (mm)
20	½	10	BCF, IR	Rp	**728 918 056**	0.014	49	28	1.9	32
25	¾	10	BCF, IR	Rp	**728 918 057**	0.022	51	28	2.3	36
32	1	10	BCF, IR	Rp	**728 918 058**	0.039	54	28	2.9	46
40	1 ¼	10	BCF, IR	Rp	**728 918 059**	0.057	56	28	3.7	55
50	1 ½	10	BCF, IR	Rp	**728 918 060**	0.085	60	28	4.6	64
63	2	10	BCF, IR	Rp	**728 918 061**	0.140	62	28	5.8	80





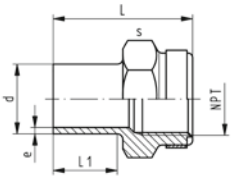
PROGEF Natural Adaptor nipple SDR11/PN10 Metric NPT

Model:

- Material: PP-R unpigmented
- With butt fusion spigot **SDR11** and NPT tapered male thread
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	s (mm)	e (mm)
20	NPT	½	10	BCF, IR	**728 914 106**	0.013	51	28	32	1.9
25	NPT	¾	10	BCF, IR	**728 914 107**	0.017	52	28	36	2.3
32	NPT	1	10	BCF, IR	**728 914 108**	0.027	55	28	46	2.9
40	NPT	1 ¼	10	BCF, IR	**728 914 109**	0.039	58	28	55	3.7
50	NPT	1 ½	10	BCF, IR	**728 914 110**	0.054	60	28	65	4.6
63	NPT	2	10	BCF, IR	**728 914 111**	0.093	67	28	80	5.8





PROGEF Natural Adaptor socket
SDR11/PN10 Metric NPT

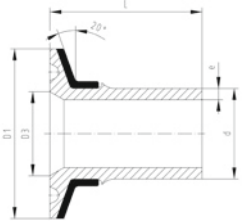
Model:

- Material: PP-R unpigmented
- With butt fusion spigot **SDR11** and NPT tapered female thread, reinforced
- Connection to plastic or metal threads
- Reinforcing ring stainless (A2)
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	s (mm)	e (mm)
20	NPT	½	10	BCF, IR	**728 914 056**	0.016	49	28	32	1.9
25	NPT	¾	10	BCF, IR	**728 914 057**	0.019	51	28	36	2.3
32	NPT	1	10	BCF, IR	**728 914 058**	0.039	54	28	46	2.9
40	NPT	1 ¼	10	BCF, IR	**728 914 059**	0.052	56	28	55	3.7
50	NPT	1 ½	10	BCF, IR	**728 914 060**	0.085	60	28	64	4.6
63	NPT	2	10	BCF, IR	**728 914 061**	0.140	62	28	80	5.8

Sanitary adopters





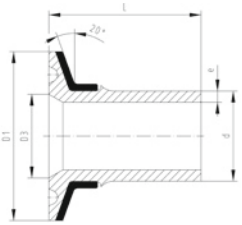
PROGEF Natural Sanitary adaptor SDR11/PN10 Connection to ISO 1127

Model:

- Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Stainlesssteel reinforcement ring
- Conventional butt-welding according to DVS 2207
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)

d (mm)	DN (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	D1 (mm)	D3 (mm)	e (mm)
20	15	10	BCF, IR	**728 598 006**	0.031	49	50	18	1.9
25	20	10	BCF, IR	**728 598 008**	0.029	50	50	23	2.3
25	25	10	BCF, IR	**728 598 009**	0.029	50	50	29	2.3
32	25	10	BCF, IR	**728 598 010**	0.030	53	50	29	2.9
40	32	10	BCF, IR	**728 598 014**	0.054	54	64	38	3.7
50	40	10	BCF, IR	**728 598 016**	0.064	61	64	44	4.6
63	50	10	BCF, IR	**728 598 018**	0.097	67	77	56	5.8





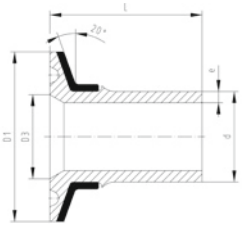
PROGEF Natural Sanitary adaptor SDR11/PN10 Connection to ISO 2852

Model:

- Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Stainlesssteel reinforcement ring

d (mm)	DN (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	D1 (mm)	D3 (mm)	e (mm)
25	20	10	BCF, IR	**728 598 309**	0.027	50	51	22	2.3
32	25	10	BCF, IR	**728 598 312**	0.031	53	51	32	2.9
40	32	10	BCF, IR	**728 598 315**	0.033	54	51	35	3.7
50	40	10	BCF, IR	**728 598 317**	0.061	61	64	49	4.6
63	50	10	BCF, IR	**728 598 319**	0.093	67	78	60	5.8





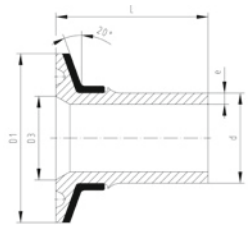
PROGEF Natural Sanitary adaptor SDR11/PN10 Connection to DIN 32676

Model:

- Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Stainlesssteel reinforcement ring
- Conventional butt-welding according to DVS 2207
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)

d (mm)	DN (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	D1 (mm)	D3 (mm)	e (mm)
20	15	10	BCF, IR	**728 598 056**	0.013	49.0	34.0	16.20	1.9
20	20	10	BCF, IR	**728 598 057**	0.013	49.0	34.0	20.00	1.9
25	25	10	BCF, IR	**728 598 059**	0.032	49.5	50.5	26.00	2.3
32	32	10	BCF, IR	**728 598 062**	0.031	53.0	50.5	31.65	2.9
40	40	10	BCF, IR	**728 598 065**	0.036	54.0	50.5	38.00	3.7
50	50	10	BCF, IR	**728 598 067**	0.060	61.0	64.0	50.00	4.6



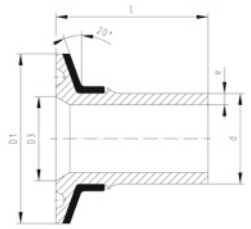


PROGEF Natural Sanitary adaptor SDR11/PN10 Connection to ASME BPE

* Without stainless steel support ring

	d (mm)	Size (inch)	PN (bar)	FM	Code	Weight (lb)	L (mm)	D1 (mm)	D3 (mm)	e (mm)
*	20	¾	10	BCF, IR	**728 598 357**	0.011	49	25	16	1.9
	25	1	10	BCF, IR	**728 598 359**	0.064	50	51	22	2.3
	32	1 ½	10	BCF, IR	**728 598 362**	0.066	53	51	35	2.9
	40	1 ½	10	BCF, IR	**728 598 365**	0.082	54	51	35	3.7
	50	2	10	BCF, IR	**728 598 367**	0.139	61	64	48	4.6
	63	2 ½	10	BCF, IR	**728 598 369**	0.212	67	78	60	5.8





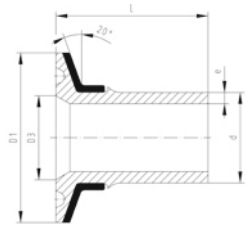
PROGEF Natural Sanitary adaptor SDR11/PN10 Connection to JIS G3447

Model:

- Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Stainlesssteel reinforcement ring

d (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	D1 (mm)	D3 (mm)	e (mm)
20	10	BCF, IR	**728 598 406**	0.014	49	34	18	1.9
25	10	BCF, IR	**728 598 408**	0.032	50	50	23	2.3
32	10	BCF, IR	**728 598 410**	0.033	53	50	30	2.9
40	10	BCF, IR	**728 598 414**	0.033	54	50	35	3.7
50	10	BCF, IR	**728 598 416**	0.061	61	64	48	4.6
63	10	BCF, IR	**728 598 418**	0.093	67	78	60	5.8





PROGEF Natural Sanitary adaptor SDR11/PN10 Connection to 3A standard

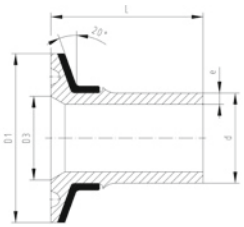
Model:

- Stainlesssteel reinforcement ring
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207

* Without stainless steel reinforcement ring

	d (mm)	Size (inch)	PN (bar)	FM	Code	Weight (kg)	L (mm)	D1 (mm)	D3 (mm)	e (mm)
*	20	¾	10	BCF, IR	**728 598 207**	0.006	49	25	16	1.9
	25	1	10	BCF, IR	**728 598 209**	0.031	50	50	22	2.3
	32	1 ½	10	BCF, IR	**728 598 213**	0.032	53	50	35	2.9
	40	1 ½	10	BCF, IR	**728 598 215**	0.033	54	50	35	3.7
	50	2	10	BCF, IR	**728 598 217**	0.062	61	64	48	4.6
	63	2 ½	10	BCF, IR	**728 598 219**	0.093	67	78	60	5.8





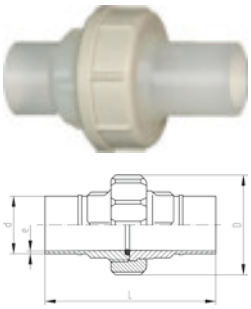
PROGEF Natural Sanitary adaptor
SDR11/PN10 Connection to membrane manometer

Model:

- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Stainlesssteel reinforcement ring
- Material: PP-R unpigmented
- Conventional butt-welding according to DVS 2207

d (mm)	DN (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	D1 (mm)	D3 (mm)	e (mm)
20	15	10	BCF, IR	**728 598 516**	0.029	49	50	34	1.9
25	20	10	BCF, IR	**728 598 518**	0.027	50	50	34	2.3
32	25	10	BCF, IR	**728 598 520**	0.032	53	50	34	2.9

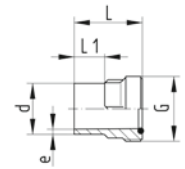
Butt fusion unions and o-rings



PROGEF Natural Sanitary union SDR11/PN10

d (mm)	PN (bar)	FM	EPDM Code	FKM Code	Weight (lb)	L (mm)	L1 (mm)	L2 (mm)	D (mm)	e (mm)
20	10	BCF, IR	**728 518 526**	**728 528 526**	0.106	107	53	25	48	1.9
25	10	BCF, IR	**728 518 527**	**728 528 527**	0.168	113	56	25	58	2.3
32	10	BCF, IR	**728 518 528**	**728 528 528**	0.234	119	59	25	65	2.9
40	10	BCF, IR	**728 518 529**	**728 528 529**	0.324	126	63	25	79	3.7
50	10	BCF, IR	**728 518 530**	**728 528 530**	0.428	131	65	25	91	4.6
63	10	BCF, IR	**728 518 531**	**728 528 531**	0.756	137	68	25	111	5.8





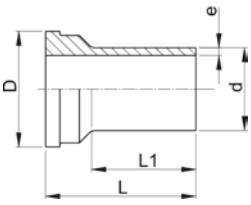
PROGEF Natural Union bush SDR11/PN10

Model:

- Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207

d (mm)	Size	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
20	1	10	BCF, IR	**728 648 526**	0.012	54	26	1.9
25	1 1/4	10	BCF, IR	**728 648 527**	0.020	57	26	2.3
32	1 1/2	10	BCF, IR	**728 648 528**	0.029	60	25	2.9
40	2	10	BCF, IR	**728 648 529**	0.047	63	25	3.7
50	2 1/4	10	BCF, IR	**728 648 530**	0.072	66	25	4.6
63	2 3/4	10	BCF, IR	**728 648 531**	0.104	69	25	5.8





PROGEF Natural union end IR S5 SDR11/PN10

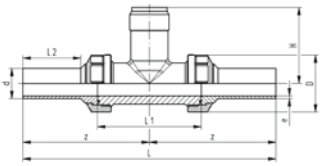
Model:

- Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207

d (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	D (mm)	e (mm)
20	BCF, IR	**728 608 506**	0.004	53	35	30	1.9
25	BCF, IR	**728 608 507**	0.013	56	36	39	2.6
32	BCF, IR	**728 608 508**	0.024	59	38	45	3.0
40	BCF, IR	**728 608 509**	0.042	63	39	57	3.7
50	BCF, IR	**728 608 510**	0.055	65	41	63	4.6
63	BCF, IR	**728 608 511**	0.092	69	43	78	5.8

Installation fittings





PROGEF Natural installation fitting type 318
For butt fusion systems metric PN 10
Body from PP-H

Model:

- Body and union nut PP-H
- Threaded outlet 1 ¼" NPSM
- Union end with butt fusion spigot PP-R

Range of use:

- Compatible Signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- Compatible Signet pH/ORP sensors: type 2724, 2725, 2726, 2734, 2736, 2735

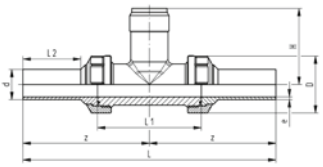
Attention:

- sensor length depends on installation fitting

d (mm)	DN (mm)	PN (bar)	FM	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	10	BCF, IR	**728 318 106**	0.250	**728 318 136**	0.250
25	20	10	BCF, IR	**728 318 107**	0.190	**728 318 137**	0.190
32	25	10	BCF, IR	**728 318 108**	0.250	**728 318 138**	0.250
40	32	10	BCF, IR	**728 318 109**	0.356	**728 318 139**	0.356
50	40	10	BCF, IR	**728 318 110**	0.510	**728 318 140**	0.510
63	50	10	BCF, IR	**728 318 111**	0.800	**728 318 141**	0.800

d (mm)	L (mm)	L1 (mm)	L2 (mm)	D (mm)	H (mm)	z (mm)	e (mm)	Sensor Type
20	198	90	38	45	76	99	2	X0 (DN15 – DN100, 1/2" to 4")
25	214	100	42	55	78	107	2	X0 (DN15 – DN100, 1/2" to 4")
32	230	110	41	62	81	115	3	X0 (DN15 – DN100, 1/2" to 4")
40	236	110	42	75	85	118	4	X0 (DN15 – DN100, 1/2" to 4")
50	252	120	44	84	89	126	5	X0 (DN15 – DN100, 1/2" to 4")
63	268	130	45	101	95	134	6	X0 (DN15 – DN100, 1/2" to 4")





PROGEF Natural installation fitting type 318
For butt fusion systems metric PN 10
Body from PVDF

Model:

- Body and union nut PVDF
- Threaded outlet 1 ¼" NPSM
- Union end with butt fusion spigot PP-R

Range of use:

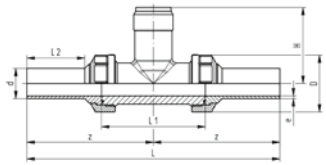
- Compatible Signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- Compatible Signet pH/ORP sensors: type 2724, 2725, 2726, 2734, 2736, 2735

Attention:

- sensor length depends on installation fitting

d (mm)	DN (mm)	PN (bar)	FM	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	10	BCF, IR	**728 318 006**	0.250	**728 318 036**	0.250
25	20	10	BCF, IR	**728 318 007**	0.355	**728 318 037**	0.355
32	25	10	BCF, IR	**728 318 008**	0.427	**728 318 038**	0.427
40	32	10	BCF, IR	**728 318 009**	0.700	**728 318 039**	0.700
50	40	10	BCF, IR	**728 318 010**	0.850	**728 318 040**	0.850
63	50	10	BCF, IR	**728 318 011**	1.182	**728 318 041**	1.182

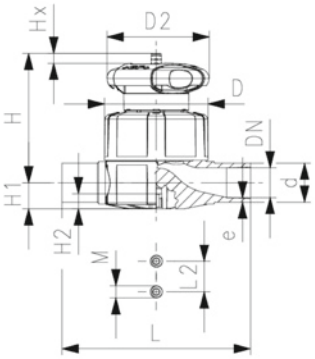
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d (mm)	L (mm)	L1 (mm)	L2 (mm)	D (mm)	H (mm)	z (mm)	e (mm)	Sensor Type
20	198	90	38	45	76	99	2	X0 (DN15 – DN100, 1/2" to 4")
25	214	100	42	55	78	107	2	X0 (DN15 – DN100, 1/2" to 4")
32	230	110	41	62	81	115	3	X0 (DN15 – DN100, 1/2" to 4")
40	236	110	42	75	85	118	4	X0 (DN15 – DN100, 1/2" to 4")
50	252	120	44	84	89	126	5	X0 (DN15 – DN100, 1/2" to 4")
63	268	130	45	101	95	134	6	X0 (DN15 – DN100, 1/2" to 4")

Diaphragm valves type 515





PROGEF Natural Diaphragm valve type 515
With butt fusion spigots SDR11 metric

Model:

- Material: PP-R unpigmented
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Overall length EN 558

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches
- *PN: PTFE

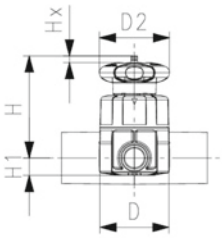
* O-Ring material: FKM

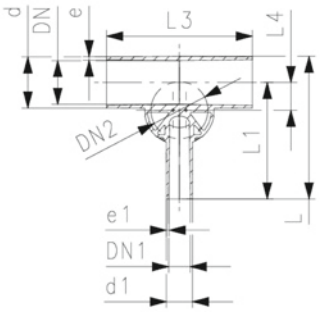
d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	EPDM Code	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	6*	**168 515 112**	**168 515 132**	0.308
25	20	¾	10	6*	**168 515 113**	**168 515 133**	0.393
32	25	1	10	6*	**168 515 114**	**168 515 134**	0.969
40	32	1 ¼	10	6*	**168 515 115**	**168 515 135**	1.125
50	40	1 ½	10	6*	**168 515 116**	**168 515 136**	2.083
63	50	2	10	6*	**168 515 117**	**168 515 137**	2.630

d (mm)	D (mm)	D2 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)	closest inch (inch)
20	65	65	73	14	12	124	25	M6	7	½
25	80	65	81	18	12	144	25	M6	10	¾
32	88	87	107	22	12	155	25	M6	13	1
40	101	87	115	26	15	176	45	M8	15	1 ¼
50	117	135	148	32	15	193	45	M8	19	1 ½
63	144	135	166	39	15	223	45	M8	25	2

Diaphragm valves type 519







PROGEF Natural Diaphragm valve type 519
With butt fusion spigots SDR11 metric

Model:

- Material: PP-R unpigmented
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Smallest possible dead space

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

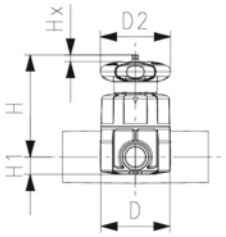
* O-Ring material: FKM

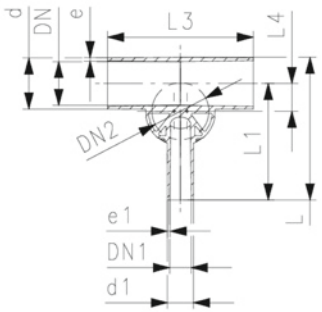
d (mm)	d1 (mm)	DN (mm)	DN1 (mm)	Size (inch)	kv-value (Δp=1 bar) (l/min)	Valve Size d (mm)	SDR	PN (bar)
20	20	15	15	½	57	20	11	6
25	20	20	15	¾	89	25	11	6
25	25	20	20	¾	118	25	11	6
32	20	25	15	1	80	25	11	6
32	25	25	20	1	105	25	11	6
32	32	25	25	1	231	32	11	6
40	20	32	15	1 ¼	85	32	11	6
40	40	32	32	1 ¼	187	40	11	6
50	20	40	15	1 ½	86	25	11	6
50	25	40	20	1 ½	160	32	11	6
50	32	40	25	1 ½	206	32	11	6
63	20	50	15	2	84	25	11	6
63	25	50	20	2	150	32	11	6
63	32	50	25	2	184	32	11	6

d (mm)	EPDM Code	PTFE/ EPDM* Code	Weight (kg)
20	**168 519 101**	**168 519 301**	0.322
25	**168 519 103**	**168 519 303**	0.398
25	**168 519 104**	**168 519 304**	0.399
32	**168 519 107**	**168 519 307**	0.425
32	**168 519 108**	**168 519 308**	0.427
32	**168 519 109**	**168 519 309**	0.981
40	**168 519 112**	**168 519 312**	1.008
40	**168 519 115**	**168 519 315**	1.034
50	**168 519 118**	**168 519 318**	0.485
50	**168 519 119**	**168 519 319**	0.605
50	**168 519 120**	**168 519 320**	1.056
63	**168 519 125**	**168 519 325**	0.524
63	**168 519 126**	**168 519 326**	1.097
63	**168 519 127**	**168 519 327**	1.100

d (mm)	D (mm)	D2 (mm)	H (mm)	L (mm)	L1 (mm)	L3 (mm)	L4 (mm)	e (mm)	Lift = Hx (mm)	DN2 (mm)	closest inch (inch)	e1 (mm)
20	65	65	75	117	96	162	12	1.9	7	15	½	1.9
25	80	65	80	133	108	162	16	2.3	10	20	¾	1.9
25	80	65	80	133	108	162	16	2.3	10	20	¾	2.3
32	80	65	84	142	120	162	19	2.9	10	20	1	1.9
32	80	65	84	142	120	162	19	2.9	10	20	1	2.3
32	88	87	107	145	120	160	19	2.9	13	25	1	2.9
40	88	87	115	149	128	180	23	3.7	13	25	1 ¼	1.9
40	88	87	115	174	153	180	23	3.7	13	25	1 ¼	3.7
50	80	65	97	160	134	180	27	4.6	10	20	1 ½	1.9

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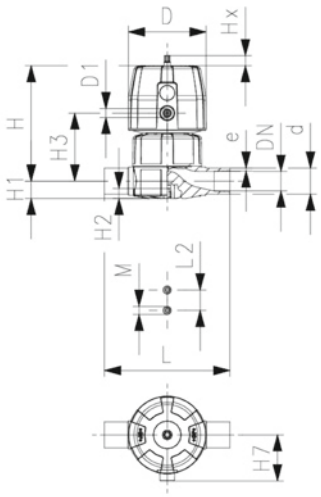




d (mm)	D (mm)	D2 (mm)	H (mm)	L (mm)	L1 (mm)	L3 (mm)	L4 (mm)	e (mm)	Lift = Hx (mm)	DN2 (mm)	closest inch (inch)	e1 (mm)
50	88	87	120	160	134	180	28	4.6	13	25	1 ½	2.3
50	88	87	120	160	134	180	28	4.6	13	25	1 ½	2.9
63	80	65	104	177	144	180	33	5.8	10	20	2	1.9
63	88	87	127	177	144	180	35	5.8	13	25	2	2.3
63	88	87	127	177	144	180	35	5.8	13	25	2	2.9

Diaphragm valves pneumatic DIASTAR Six





PROGEF Natural Diaphragm valve DIASTAR Six
With butt fusion spigots SDR11 metric

Model:

- Material: PP-R unpigmented
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

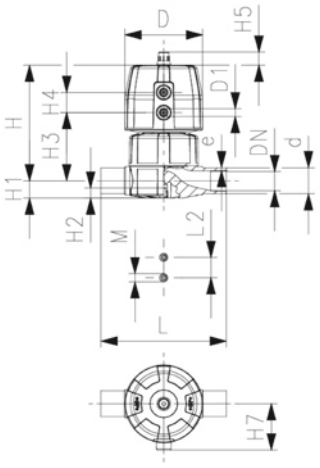
- Individual configuration of the valve

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
25	20	¾	6	271	**168 615 113**	0.901
32	25	1	6	481	**168 615 114**	1.063
40	32	1 ¼	6	759	**168 615 115**	1.744
50	40	1 ½	6	960	**168 615 116**	2.203
63	50	2	6	1181	**168 615 117**	2.979

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)	closest inch (inch)
25	96	⅛	132	18	12	73	57	144	25	M6	2.3	10	¾
32	96	⅛	143	22	12	84	57	154	25	M6	2.9	13	1
40	120	⅛	173	26	15	99	69	174	45	M8	3.7	14	1 ¼
50	120	⅛	193	32	15	119	69	194	45	M8	4.6	16	1 ½
63	120	⅛	205	39	15	132	69	224	45	M8	5.8	16	2

Diaphragm valves pneumatic DIASTAR Ten





PROGEF Natural Diaphragm valve DIASTAR Ten
DA (Double acting)
With butt fusion spigots SDR11 metric

Model:

- Material: PP-R unpigmented
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **one side**

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE Code	Weight (kg)
20	15	½	10	6*	125	**168 655 112**	0.426	**168 655 132**	0.436
25	20	¾	10	6*	271	**168 655 113**	0.765	**168 655 133**	0.777
32	25	1	10	6*	481	**168 655 114**	0.924	**168 655 134**	0.945
40	32	1 ¼	10	6*	759	**168 655 115**	1.474	**168 655 135**	1.494
50	40	1 ½	10	6*	1263	**168 655 116**	2.501	**168 655 136**	2.531
63	50	2	10	5*	1728	**168 655 117**	3.060	**168 655 137**	3.088

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)
20	68	⅛	101	14	12	60	24	16	43	124	25	M6	2	7
25	96	⅛	132	18	12	73	25	16	57	144	25	M6	2	10
32	96	⅛	143	22	12	84	25	16	57	154	25	M6	3	13
40	120	⅛	173	26	15	99	26	26	69	174	45	M8	4	15
50	150	¼	214	32	15	119	36	26	88	194	45	M8	5	19
63	150	¼	226	39	15	132	36	26	88	224	45	M8	6	23

d (mm)	closest inch (inch)
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2



PROGEF Natural Diaphragm valve DIASTAR Ten
FO (Fail safe to open)
With butt fusion spigots SDR11 metric

Model:

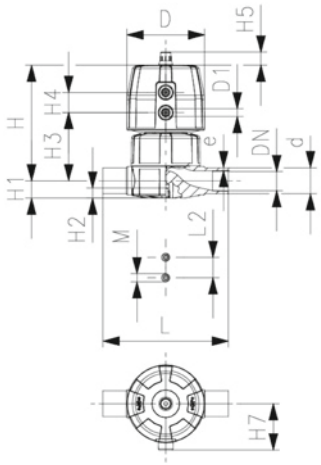
- Material: PP-R unpigmented
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE Code	Weight (kg)
20	15	½	10	6*	125	**168 645 112**	0.442	**168 645 132**	0.452
25	20	¾	10	6*	271	**168 645 113**	0.802	**168 645 133**	0.813
32	25	1	10	6*	481	**168 645 114**	0.955	**168 645 134**	0.975
40	32	1 ¼	10	6*	759	**168 645 115**	1.534	**168 645 135**	1.554
50	40	1 ½	10	6*	1263	**168 645 116**	3.251	**168 645 136**	3.281
63	50	2	10	5*	1728	**168 645 117**	3.810	**168 645 137**	3.838

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)
20	68	⅛	101	14	12	60	24	16	43	124	25	M6	2	7
25	96	⅛	132	18	12	73	25	16	57	144	25	M6	2	10
32	96	⅛	143	22	12	84	25	16	57	154	25	M6	3	13
40	120	⅛	173	26	15	99	26	26	69	174	45	M8	4	15
50	150	¼	214	32	15	119	36	26	88	194	45	M8	5	19
63	150	¼	226	39	15	132	36	26	88	224	45	M8	6	23

d (mm)	closest inch (inch)
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2



PROGEF Natural Diaphragm valve DIASTAR Ten
FC (Fail safe to close)
With butt fusion spigots SDR11 metric

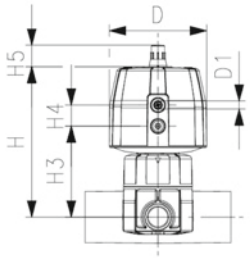
Model:

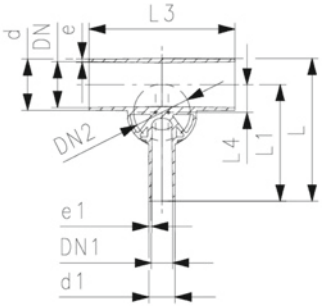
- Material: PP-R unpigmented
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Smallest possible dead space

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM



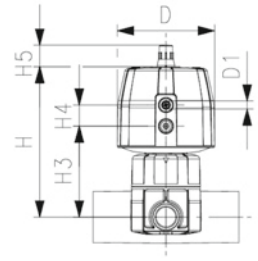


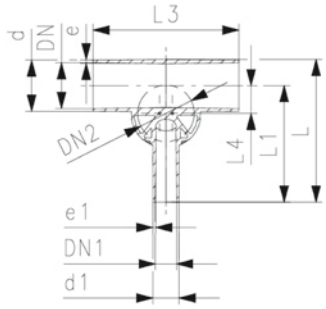
d (mm)	d1 (mm)	DN (mm)	DN1 (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	SDR	Valve Size d (mm)	PN* (bar)	EPDM Code	Weight (kg)
20	20	15	15	½	10	57	11	20	6*	**168 629 101**	0.506
25	20	20	15	¾	10	89	11	25	6*	**168 629 103**	0.981
25	25	20	20	¾	10	118	11	25	6*	**168 629 104**	0.982
32	20	25	15	1	10	80	11	25	6*	**168 629 107**	1.008
32	25	25	20	1	10	105	11	25	6*	**168 629 108**	1.010
32	32	25	25	1	10	231	11	32	6*	**168 629 109**	1.147
40	20	32	15	1 ¼	10	85	11	32	6*	**168 629 112**	1.174
50	20	40	15	1 ½	10	86	11	25	6*	**168 629 118**	1.068
50	25	40	20	1 ½	10	160	11	32	6*	**168 629 119**	1.220
50	32	40	25	1 ½	10	206	11	32	6*	**168 629 120**	1.222
63	20	50	15	2	10	84	11	25	6*	**168 629 125**	1.107
63	25	50	20	2	10	150	11	32	6*	**168 629 126**	1.263
63	32	50	25	2	10	184	11	32	6*	**168 629 127**	1.266

d (mm)	PTFE/ EPDM* Code	Weight (kg)
20	**168 629 301**	0.516
25	**168 629 303**	0.992
25	**168 629 304**	0.993
32	**168 629 307**	1.019
32	**168 629 308**	1.021
32	**168 629 309**	1.167
40	**168 629 312**	1.194
50	**168 629 318**	1.079
50	**168 629 319**	1.240
50	**168 629 320**	1.242
63	**168 629 325**	1.119
63	**168 629 326**	1.283
63	**168 629 327**	1.286

d (mm)	D (mm)	D1 (inch)	H (mm)	H3 (mm)	H4 (mm)	H5 (mm)	L (mm)	L1 (mm)	L3 (mm)	L4 (mm)	e (mm)	e1 (mm)	DN2 (mm)	Lift = Hx (mm)
20	68	⅛	104	71	25	16	117	96	162	12	1.9	1.9	15	7
25	96	⅛	131	72	25	16	133	108	162	16	2.3	1.9	20	10
25	96	⅛	131	72	25	16	133	108	162	16	2.3	2.3	20	10
32	96	⅛	135	76	25	16	142	120	162	19	2.9	1.9	20	10
32	96	⅛	135	76	25	16	142	120	162	19	2.9	2.3	20	10
32	96	⅛	143	93	25	16	145	120	160	19	2.9	2.9	25	13
40	96	⅛	151	101	25	16	149	128	180	23	3.7	1.9	25	13
50	96	⅛	148	90	25	16	160	134	180	27	4.6	1.9	20	10
50	96	⅛	156	106	25	16	160	134	180	28	4.6	2.3	25	13

table continued on the next page





d (mm)	D (mm)	D1 (inch)	H (mm)	H3 (mm)	H4 (mm)	H5 (mm)	L (mm)	L1 (mm)	L3 (mm)	L4 (mm)	e (mm)	e1 (mm)	DN2 (mm)	Lift = Hx (mm)
50	96	⅛	156	106	25	16	160	134	180	28	4.6	2.9	25	13
63	96	⅛	155	96	25	16	177	144	180	33	5.8	1.9	20	10
63	96	⅛	163	113	25	16	177	144	180	35	5.8	2.3	25	13
63	96	⅛	163	113	25	16	177	144	180	35	5.8	2.9	25	13



PROGEF Natural Diaphragm valve DIASTAR Ten FC (Fail safe to close) With butt fusion spigots SDR11 metric

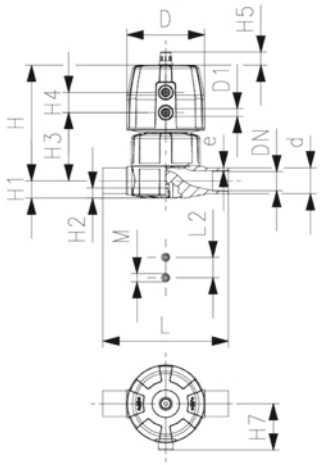
Model:

- Material: PP-R unpigmented
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

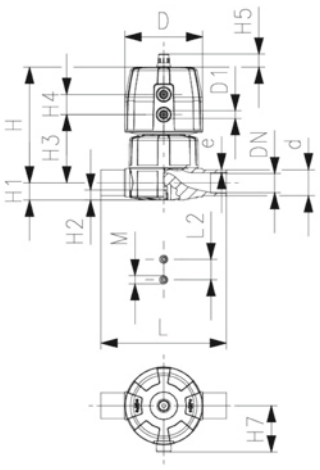
* PN: PTFE
Working Pressure: **one side**



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE Code	Weight (kg)
20	15	½	10	6*	125	**168 625 112**	0.492	**168 625 132**	0.502
25	20	¾	10	6*	271	**168 625 113**	0.976	**168 625 133**	0.987
32	25	1	10	6*	481	**168 625 114**	1.135	**168 625 134**	1.155
40	32	1 ¼	10	6*	759	**168 625 115**	1.894	**168 625 135**	1.914
50	40	1 ½	10	6*	1263	**168 625 116**	3.341	**168 625 136**	3.371
63	50	2	10	5*	1728	**168 625 117**	3.900	**168 625 137**	3.928

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)
20	68	⅛	101	14	12	60	24	16	43	124	25	M6	1.9	7
25	96	⅛	132	18	12	73	25	16	57	144	25	M6	2.3	10
32	96	⅛	143	22	12	84	25	16	57	154	25	M6	2.9	13
40	120	¼	173	26	15	99	26	26	69	174	45	M8	3.7	15
50	150	¼	214	32	15	119	36	26	88	194	45	M8	4.6	19
63	150	¼	226	39	15	132	36	26	88	224	45	M8	5.8	23

table continued on the next page

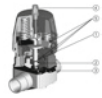


d (mm)	closest inch (inch)
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2

Electric & pneumatic actuators

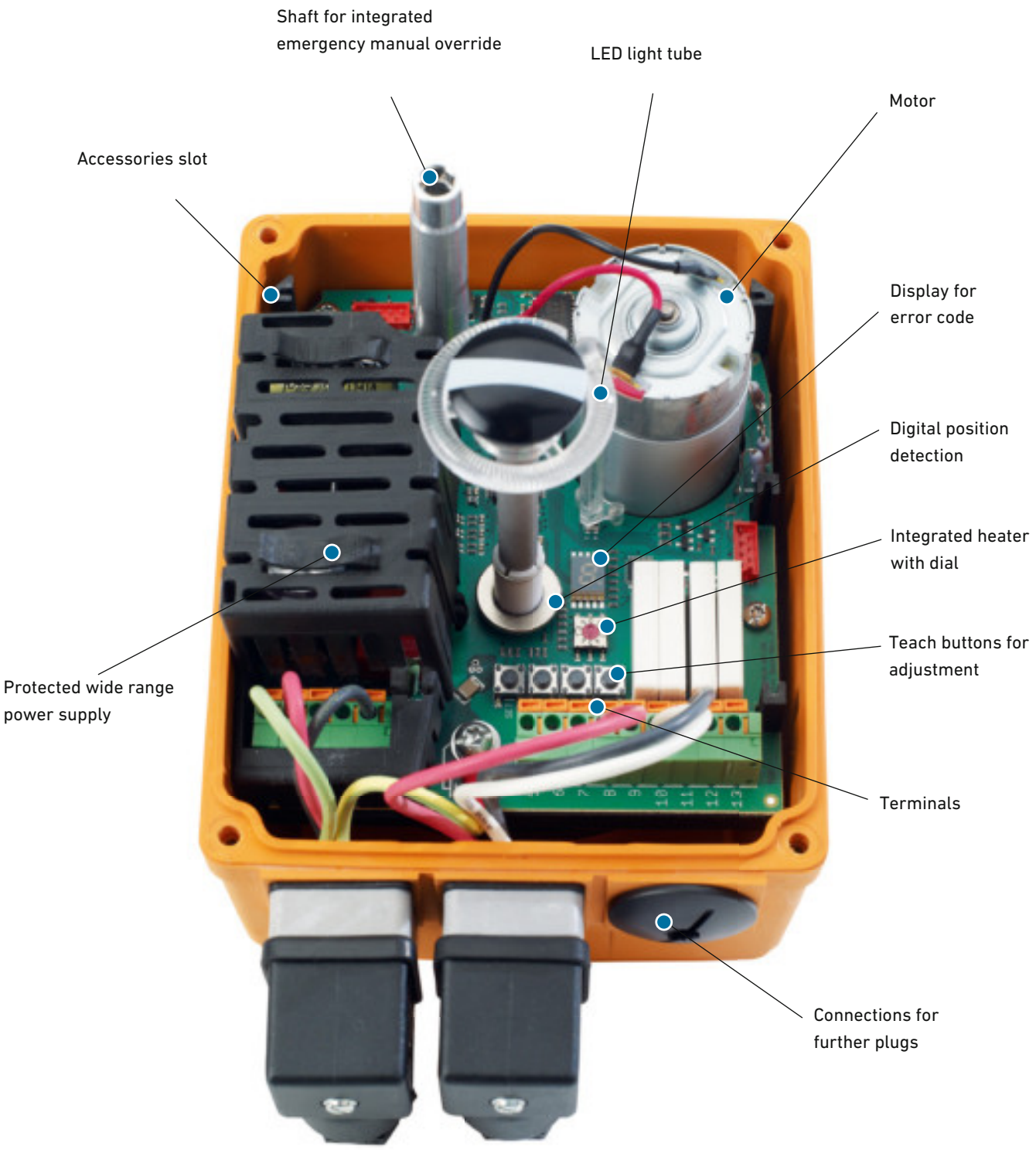




Electric & pneumatic actuators		Page
	Electric actuators	487
	Pneumatic rotary actuators PA	490
	Accessories for pneumatic rotary actuators	494
	Pneumatic stroke actuators	495
	Accessories for pneumatic stroke actuators	499

Small & Light

Electric actuators type EA15-250



Smart functions for easy operation

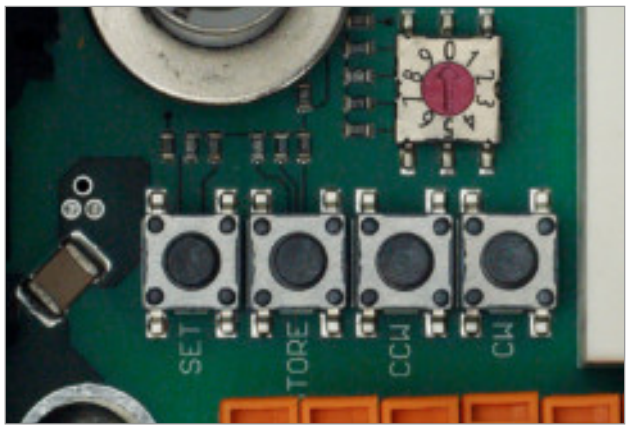
The new series of electric actuators from GF Piping Systems provides the highest reliability and ease of use. With smart additional functions, these actuators are ahead of their time.

+ Features & benefits



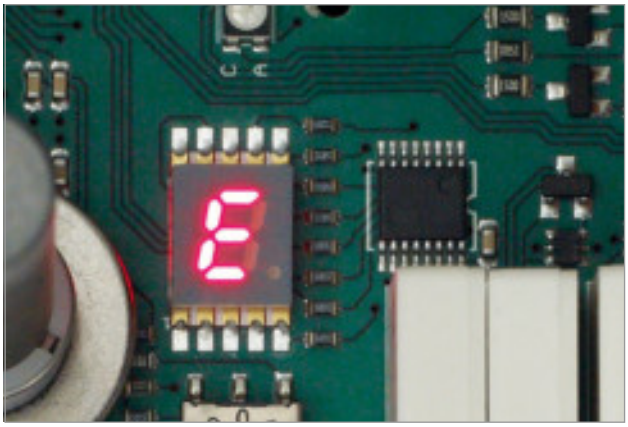
Clear display

In addition to the standard display, there is colour LED feedback. This enables easy and fast detection of the operating status at a glance – whether in low light conditions or from a distance. The different colours show the respective position of the actuator. The integrated relays allow feedback from up to three different actuating positions.



Easy set-up

Digital 360° position detection is used to clearly identify the actuating position. Ex factory, the actuator is adjusted to 0° and 90°. Readjustment by the user is possible at any time on site via four buttons. The buttons are easy to operate without any additional tools.



Intelligent feedback

The 7-segment error display ensures the highest level of security in case of a problem. Through various error codes, the cause of a problem can be clearly identified. A time and labour-intensive search is no longer necessary. Whether it's undervoltage, a position error or use of the emergency manual override – the display facilitates the identification of disruptions. The 'ready-to-operate' signal gives feedback on the process control system. The signal will drop in case of failure.

Technical details

EA15, EA25, EA45, EA120, EA250

Nominal voltage	AC: 100 – 230 V, 50/60 Hz
	AC/DC: 24 V, 50/60 Hz
Nominal voltage tolerance	± 15%
Protection class	IP 65 according to EN 60529
Pollution degree	2 according to EN 61010-1
Overload protection	Current/time dependent, resetting
Overvoltage category	II
Ambient temperature	-10 ° to +50 °C
Allowable humidity	Max. 90 % relative humidity, non condensing
Housing material	PP-GF for very good chemical resistance

	EA15	EA25	EA45	EA120	EA250
Nominal power	AC: 30 VA at 100–230 V	AC: 35 VA at 100–230 V	AC: 55 VA at 100–230 V	AC: 50 VA at 100–230 V	AC: 60 VA at 100–230 V
	AC/DC: 35 VA at 24 V	AC/DC: 40 VA at 24 V	AC/DC: 60 VA at 24 V	AC/DC: 55 VA at 24 V	AC/DC: 65 VA at 24 V
Nominal power	0.3A at 100V	0.35A at 100V	0.55A at 100V	0.5A at 100V	0.55A at 100V
	0.13A at 230V	0.15A at 230V	0.24A at 230V	0.22A at 230V	0.26A at 230V
	1.5A at 24V	1.7A at 24V	2.5A at 24V	2.3A at 24V	2.7A at 24V
Nominal torque Mdn (peak)	10 (20) Nm	10 (25) Nm	20 (45) Nm	60 (120) Nm	100 (250) Nm
Duty cycle	40% @ 25°C/15min	100%	50%	50%	35%
Cycle time s/90° at Mdn.	5 s	5 s	6 s	15 s	20 s
Flange fitting	F05	F05	F05	F07	F07
Tested cycles (at 20 °C and Mdn)	150 000	250 000	100 000	100 000	75 000
Weight	1.85 kg	2,1 kg	2,2 kg	3,6 kg	5,0 kg
Actuating angle	Max. 355°, set to 90°				



Electric actuators



Electric actuator type EA04

Type of actuator	Voltage	Code	Weight (kg)
10Nm	100-230V	**198 151 480**	0.900
10Nm	24V	**198 151 481**	0.900
20Nm	24-240V	**198 151 492**	1.500



Electric actuator type EA15/25/45/120/250

Model:

- Heating element, position feedback (Open/Close/ Middle)
- All: Adjustable heater and 7-segment error LED included
- EA15: control and position feedback open/close
- EA25 - 250: control open/close/middle; positon feedback open/close/middle ready to operate
- cUL E247458
- IP68 Rating

Option:

- All: Fail-safe return unit
- EA25-250: Monitoring board, Positioner, Profibus DP board, Modbus TCP EA 25-250 Ethernet Interface Card

*with adapter 198 000 587 F05 / SW 11, 198 204 057 F05 / SW 14

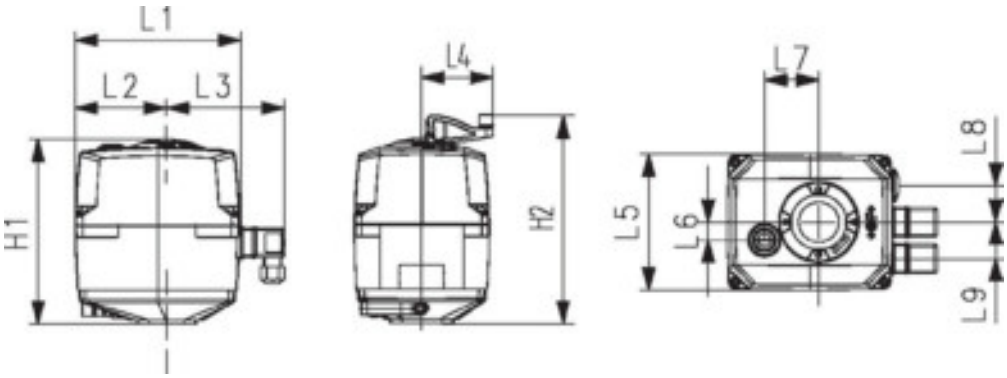
Type of actuator	Voltage	Torque nominal (N/m)	Torque maximal (N/m)	Interfaces
EA15	100-230V AC	10	20	F05 (SW 11/14)*
EA15	24V AC/DC	10	20	F05 (SW 11/14)*
EA25	100-230V AC	10	25	F05 (SW 11/14)*
EA25	24V AC/DC	10	25	F05 (SW 11/14)*
EA45	100-230V AC	20	45	F05 (SW 11/14)*
EA45	24V AC/DC	20	45	F05 (SW 11/14)*
EA120	100-230V AC	60	120	F07 (SW17)
EA120	24V AC/DC	60	120	F07 (SW17)
EA250	100-230V AC	100	250	F07 (SW22)
EA250	24V AC/DC	100	250	F07 (SW22)
EA15 cUL marked	100-230V AC	10	20	F05 (SW 11/14)*
EA15 cUL marked	24V AC/DC	10	20	F05 (SW 11/14)*
EA25 UL marked	100-230V AC	10	25	F05 (SW 11/14)*
EA25 cUL marked	24V AC/DC	10	25	F05 (SW 11/14)*
EA45 cUL marked	100-230V AC	20	45	F05 (SW 11/14)*
EA45 cUL marked	24V AC/DC	20	45	F05 (SW 11/14)*
EA120 cUL marked	100-230V AC	60	120	F07 (SW17)
EA120 cUL marked	24V AC/DC	60	120	F07 (SW17)
EA250 cUL marked	100-230V AC	100	250	F07 (SW22)
EA250 cUL marked	24V AC/DC	100	250	F07 (SW22)

Type of actuator	Code
EA15	**198 153 180**
EA15	**198 153 181**
EA25	**198 153 182**
EA25	**198 153 183**
EA45	**198 153 184**
EA45	**198 153 185**
EA120	**198 153 186**
EA120	**198 153 187**
EA250	**198 153 188**
EA250	**198 153 189**
EA15 cUL marked	**198153200**

table continued on the next page

Type of actuator	Code
EA15 cUL marked	**198 153 201**
EA25 UL marked	**198 153 202**
EA25 cUL marked	**198 153 203**
EA45 cUL marked	**198 153 204**
EA45 cUL marked	**198 153 205**
EA120 cUL marked	**198 153 206**
EA120 cUL marked	**198 153 207**
EA250 cUL marked	**198 153 208**
EA250 cUL marked	**198 153 209**

Type of actuator	H1 (mm)	H2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)
EA15	137	158	122	83.0	77	64.3	122	16	49		33
EA15	137	158	122	83.0	77	64.3	122	16	49		33
EA25	167	188	150	82.5	107	64.3	122	16	49	33	33
EA25	167	188	150	82.5	107	64.3	122	16	49	33	33
EA45	167	188	150	82.5	107	64.3	122	16	49	33	33
EA45	167	188	150	82.5	107	64.3	122	16	49	33	33
EA120	190	212	150	82.5	107	64.3	122	16	49	33	33
EA120	190	212	150	82.5	107	64.3	122	16	49	33	33
EA250	200	221	150	82.5	107	64.3	122	16	49	33	33
EA250	200	221	150	82.5	107	64.3	122	16	49	33	33
EA15 cUL marked	167	189	150	78.0	108	64.0	122	16	49	33	33
EA15 cUL marked	167	189	150	78.0	108	64.0	122	16	49	33	33
EA25 UL marked	167	189	150	83.0	98	64.0	122	16	49	33	33
EA25 cUL marked	167	189	150	83.0	98	64.0	122	16	49	33	33
EA45 cUL marked	167	189	150	83.0	98	64.0	122	16	49	33	33
EA45 cUL marked	167	189	150	83.0	98	64.0	122	16	49	33	33
EA120 cUL marked	190	212	150	83.0	98	64.0	122	16	49	33	33
EA120 cUL marked	190	212	150	83.0	98	64.0	122	16	49	33	33
EA250 cUL marked	200	221	150	83.0	98	64.0	122	16	49	33	33
EA250 cUL marked	200	221	150	83.0	98	64.0	122	16	49	33	33









Accessory for electric actuators type EA15/25/45/120/250

Model:

- All accessory can be retrofitted to installed actuators of the same generation
- Accessory works with 100-230V and 24V version

Material	Description	EA25-250 Code	EA15 Code	EA15-250 Code
Fail-safe return unit integrated	Moves actuator in pre-defined safe position upon power loss, integrated battery pack	**199 190 601**	**199 190 610**	
Fail-safe return unit external	Moves actuator in pre-defined safe position upon power loss, voltage supply implemented externally	**199 190 604**	**199 190 611**	
Positioner	Continuous actuator control. 4-20mA or 0-10 V Input and 4-20 mA Feedback	**199 190 603**		
Monitoring	Parameter monitoring. Generates alarm upon reaching its set limitations. Prevents water hammers or indicates maintenance need for valve	**199 190 602**		
Profibus DP	Enables the actuator to be connected to a Profibus DP-V0 network	**199 190 605**		
Diagnostic Tool	Enables to read from the actuator main board and check configurations			**199 190 600**
EA Demobox	Demo Box for electric actuators type EA15/25/45/120/250 as well as for types EA11/21/31/42 Suitable for 24V & 100-230V Control Open/ Close/ Middle; Display for feedback end positions and ready to operate			**199 190 607**
Modbus RTU via RS485	Modbus RTU Interface Module for EA 25 - 250 to integrate GF actuators into Modbus systems which are based on RS-485.	**199 190 617**		

Pneumatic rotary actuators PA

Type PA11 / PA21

Type PA30 / PA90



Pneumatic actuator type PA30 - PA90
Fail safe to close/fail safe to open (FC/FO)

* Only valid for butterfly valve type 240, 241, 242 and ball valve type 230 - 235

	Type	hard anodized Code	Weight (kg)	nickel plated Code	Weight (kg)	hard anodized with stroke limiter Code	Weight (kg)
	PA 30 FC/FO	**198 800 757**	2.022	**198 800 034**	2.400		
*	PA 30 FO	**198 811 025**	2.020				
	PA 35 FC/FO	**198 800 037**	2.673	**198 800 052**	2.400		
*	PA 35 FO	**198 811 026**	2.675				
	PA 40 FC/FO	**198 800 728**	3.602	**198 800 004**	3.598	**198 800 017**	3.598
*	PA 40 FO	**198 811 027**	3.623				
	PA 45 FC/FO	**198 800 039**	4.962	**198 800 054**	4.600		
*	PA45 FO	**198 811 028**	4.944				
	PA 50 FC/FO	**198 800 729**	6.921	**198 800 005**	6.921	**198 800 018**	6.921
*	PA50 FO	**198 811 029**	6.819				
	PA 55 FC/FO	**198 800 041**	9.354	**198 800 056**	9.400		
*	PA 55 FO	**198 811 030**	9.203				
	PA 60 FC/FO	**198 800 730**	11.371	**198 800 006**	12.895	**198 800 019**	12.895
	PA 65 FC/FO	**198 800 043**	15.900	**198 800 058**	15.900		
	PA 70 FC/FO	**198 800 731**	18.758	**198 800 007**	19.496	**198 800 020**	19.496
*	PA 70 FO	**198 811 198**	18.750				

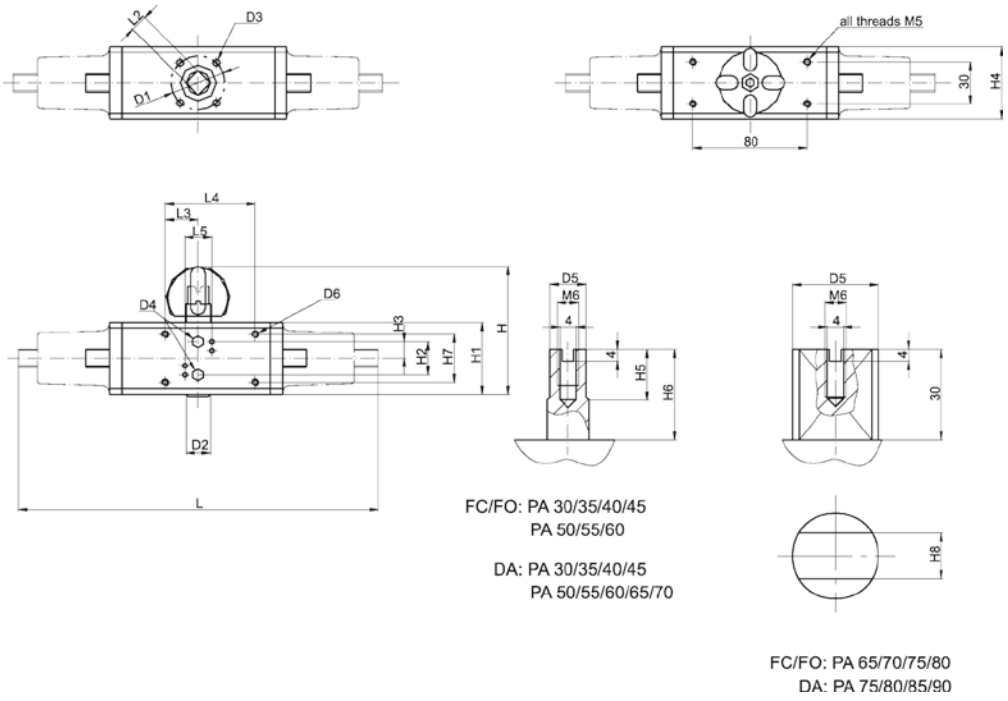
	Type	epoxy coated Code	Weight (kg)
	PA 30 FC/FO	**198 811 194**	2.400
*	PA 30 FO		
	PA 35 FC/FO	**198 800 029**	2.400
*	PA 35 FO		
	PA 40 FC/FO	**198 800 025**	3.598
*	PA 40 FO		
	PA 45 FC/FO		
*	PA45 FO		
	PA 50 FC/FO	**198 800 026**	6.921
*	PA50 FO		
	PA 55 FC/FO	**198 811 190**	9.424
*	PA 55 FO		
	PA 60 FC/FO		
	PA 65 FC/FO		
	PA 70 FC/FO	**198 800 028**	19.496
*	PA 70 FO		

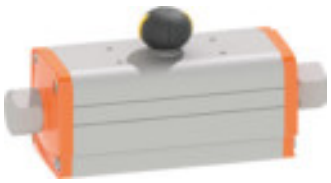
	Type		D1 (mm)	D2 (mm)	D3[M] (mm)	D4 (inch)	D5 (mm)	L (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	H (mm)
	PA 30 FC/FO	F04	42	30	M5x9		10	272	11	35	70	32	102
*	PA 30 FO	F04	42	30	M5x9	⅛	10	272	11	35	70	32	102
	PA 35 FC/FO	F05	50	35	M6x11		12	336	14	35	70	32	111
*	PA 35 FO	F05	50	35	M6x11	⅛	12	336	14	35	70	32	111
	PA 40 FC/FO	F05	50	35	M6x11		12	364	14	35	70	32	129
*	PA 40 FO	F05	50	35	M6x11	⅛	12	364	14	35	70	32	129
	PA 45 FC/FO	F07	70	55	M8x15	⅛	15	403	17	35	70	32	139
*	PA45 FO	F07	70	55	M8x15	⅛	15	403	17	35	70	32	139
	PA 50 FC/FO	F07	70	55	M8x15		15	418	17	35	70	32	149
*	PA50 FO	F07	70	55	M8x15	⅛	15	418	17	35	70	32	149
	PA 55 FC/FO	F10	102	70	M10x17		19	478	22	35	70	32	161
*	PA 55 FO	F10	102	70	M10x17	⅛	19	478	22	35	70	32	161

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	Type		D1 (mm)	D2 (mm)	D3[M] (mm)	D4 (inch)	D5 (mm)	L (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	H (mm)
	PA 60 FC/FO	F10	102	70	M10x17	⅛	19	497	22	35	70	32	173
	PA 65 FC/FO	F12	125	85	M12x21	¼		617	27			32	191
	PA 70 FC/FO	F12	125	85	M12x21			652	27			32	196
*	PA 70 FO	F12	125	85	M12x21	¼		652	27			32	196

	Type	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	H7 (mm)	H8 (mm)
	PA 30 FC/FO	70	21	18	65	13	20	36	
*	PA 30 FO	70	21	18	65	13	20	36	
	PA 35 FC/FO	78	21	18	72	13	20	36	
*	PA 35 FO	78	21	18	72	13	20	36	
	PA 40 FC/FO	86	25	21	80	13	30	36	
*	PA 40 FO	86	25	21	80	13	30	36	
	PA 45 FC/FO	96	25	21	90	16	30	36	
*	PA45 FO	96	25	21	90	16	30	36	
	PA 50 FC/FO	106	25	26	100	17	30	36	
*	PA50 FO	106	25	26	100	17	30	36	
	PA 55 FC/FO	118	25	25	112	19	30	36	
*	PA 55 FO	118	25	25	112	19	30	36	
	PA 60 FC/FO	130	25	32	124	19	30	36	
	PA 65 FC/FO	148	24	34	137				22
	PA 70 FC/FO	153	24	38	145				24
*	PA 70 FO	153	24	38	145				24





Pneumatic actuator type PA30 - PA90
Double acting (DA)

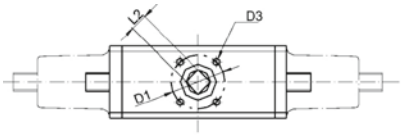
Type	hard anodized Code	Weight (kg)
PA 30 DA	**198 800 737**	1.004
PA 35 DA	**198 800 758**	1.346
PA 40 DA	**198 800 759**	1.731
PA 45 DA	**198 800 040**	2.155
PA 50 DA	**198 800 733**	2.981
PA 55 DA	**198 800 042**	3.892
PA 60 DA	**198 800 734**	5.647
PA 65 DA	**198 800 044**	7.293
PA 70 DA	**198 800 735**	9.008

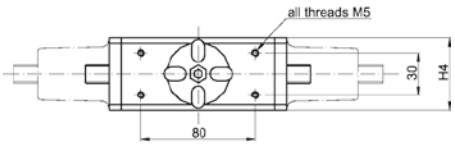
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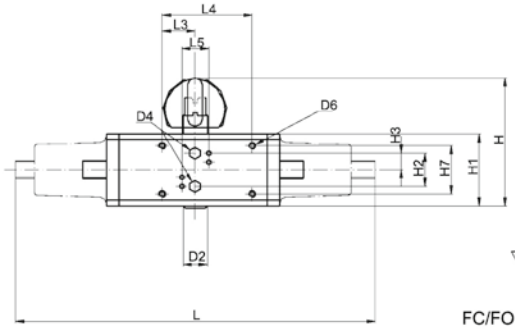
Type	hard anodized Code	Weight (kg)
PA 75 DA	**198 800 046**	12.000
PA 80 DA	**198 800 048**	14.000
PA 85 DA	**198 800 050**	21.527
PA 90 DA	**198 800 051**	25.400

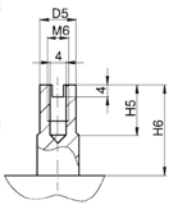
H7 (mm)	D5 (mm)	H6 (mm)	L4 (mm)	L3 (mm)	H5 (mm)	D3[M] (mm)		D1 (mm)	D2 (mm)	D4 (inch)	L1 (mm)	L2 (mm)	L5 (mm)	H (mm)	H1 (mm)
36	9	20	70	35	10	M5x9	F03	36	25	⅛	169	9		92	60
36	10	20	70	35	13	M5x9	F03	42	30	⅛	183	11		98	66
36	10	20	70	35	13	M5x9	F05	42	30	⅛	190	11		102	70
36	12	20	70	35	13	M6x11	F05	50	35	⅛	225	14		111	78
36	12	30	70	35	13	M6x11	F05	50	35	⅛	240	14		129	86
36	15	30	70	35	16	M8x15	F07	70	55	⅛	269	17		139	96
36	15	30	70	35	17	M8x15	F07	70	55	⅛	314	17		149	106
36	19	30	70	35	19	M10x17	F10	102	70	⅛	336	22		161	118
36	19	30	70	35	19	M10x17	F10	102	70	⅛	365	22		173	130
						M12x21	F12	125	85	¼	402	27	32	191	148
						M12x21	F12	125	85	¼	445	27	32	197	153
						M16x25	F14	140	100	¼	529	36	32	229	186
						M16x25	F14	140	100	¼	581	36	32	241	198

H2 (mm)	H3 (mm)	H4 (mm)	H8 (mm)
25	12	55	
25	13	60	
21	18	65	
21	18	72	
25	21	80	
25	21	90	
25	26	100	
25	25	112	
25	32	124	
24	34	137	22
24	38	145	24
24	43	166	27
24	44	180	32



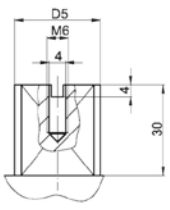


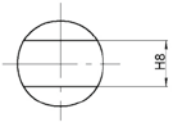




FC/FO: PA 30/35/40/45
PA 50/55/60

DA: PA 30/35/40/45
PA 50/55/60/65/70





FC/FO: PA 65/70/75/80
DA: PA 75/80/85/90

Accessories for pneumatic rotary actuators



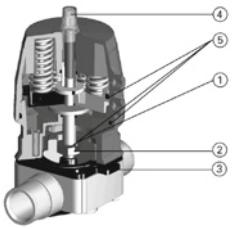


For pneumatic actuators type PA30-PA55
Namur connecting plate

- PA30 - PA55 FC/FO, PA30 - PA65 DA

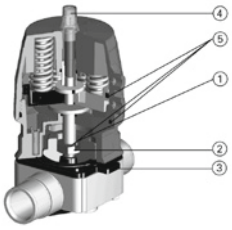
DN (mm)	Series PA30-55 Code	Weight (kg)
15	**199 190 275**	0.114
20	**199 190 275**	0.114
25	**199 190 275**	0.114
32	**199 190 275**	0.114
40	**199 190 275**	0.114
50	**199 190 275**	0.114

Pneumatic stroke actuators



Accesories and spare parts for DIASTAR
Seal set complete

DN (mm)		Serie 028 FC Serie 025 FO/DA Code	Weight (kg)	Serie 025 FC Code	Weight (kg)
5	15	**198 000 332**	0.005	**198 000 333**	0.006
5	20	**198 000 333**	0.006	**198 000 333**	0.006
5	25	**198 000 333**	0.006	**198 000 334**	0.005
5	32	**198 000 334**	0.005	**198 000 335**	0.023
5	40	**198 000 335**	0.023	**198 000 336**	0.027
5	50	**198 000 335**	0.023	**198 000 336**	0.027

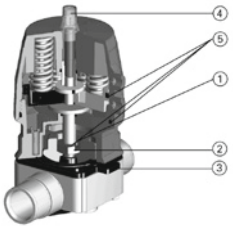


Accesories and spare parts for DIASTAR
Diaphragms for DIASTAR

Note:
*Diaphragm in HP quality

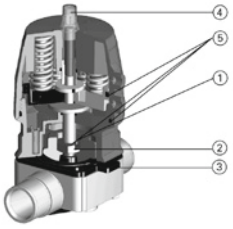
DN (mm)	d (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	NBR Code	Weight (kg)
15	20	**161 481 022**	0.013	**161 481 092**	0.022	**161 311 710**	0.015
20	25	**161 481 023**	0.020	**161 481 093**	0.037	**161 311 711**	0.030
25	32	**161 481 024**	0.039	**161 481 094**	0.064	**161 311 712**	0.040
32	40	**161 481 025**	0.058	**161 481 095**	0.096	**161 311 713**	0.050
40	50	**161 481 026**	0.071	**161 481 096**	0.121	**161 311 714**	0.070
50	63	**161 481 027**	0.116	**161 481 097**	0.186	**161 311 715**	0.130
65	75	**161 481 028**	0.182	**161 481 098**	0.236	**161 480 231**	0.200
80	90	**161 481 029**	0.258	**161 481 099**	0.328	**161 480 232**	0.290
100	110	**161 481 030**	0.431	**161 481 100**	0.560	**161 480 233**	0.450
150	160	**161 482 754**	1.100	**161 481 102**	1.430	**161 482 751**	2.500

PTFE/EPDM Code	Weight (kg)	PTFE/EPDM HP Code	Weight (kg)
161 311 698	0.022	**161 484 452**	0.025
161 311 699	0.033	**161 484 453**	0.047
161 311 700	0.053	**161 484 454**	0.060
161 311 701	0.053	**161 484 455**	0.083
161 311 702	0.104	**161 484 456**	0.106
161 311 703	0.155	**161 484 457**	0.150
161 480 240	0.252	**161 484 458**	0.280
161 480 241	0.394	**161 484 459**	0.390
161 480 242	0.637	**161 484 460**	0.630
***161482760**	1.421	***161482760**	1.421



Accesories and spare parts for DIASTAR
Compression set complete
Consisting of compressor and diaphragm holder

DN (mm)	Size (inch)	d (mm)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
40	1 ½	50	**198 000 324**	0.079		
50	2	63	**198 000 325**	0.071		
65	2 ½	75	**198 000 268**	0.135	**198 000 269**	0.135
80	3	90	**198 000 270**	0.444	**198 000 271**	0.350
100	4	110	**198 000 272**	0.493	**198 000 273**	0.489
150	6	160	**198 000 274**	1.466	**198 000 275**	1.466



Accesories and spare parts for DIASTAR
Indicator cap for DIASTAR

d (mm)	DN (mm)	Pos	Serie 025 FC Code	Weight (kg)	Serie 025 FO Code	Weight (kg)	Serie 025 DA Code	Weight (kg)
75	65	4	**198 806 376**	0.022	**198 806 376**	0.022	**198 806 376**	0.022
90	80	4	**198 806 376**	0.022	**198 806 376**	0.022	**198 806 376**	0.022
110	100	4	**198 806 376**	0.022	**198 806 376**	0.022	**198 806 376**	0.022
160	150	4	**198 806 376**	0.022	**198 806 376**	0.022	**198 806 376**	0.022



Pneumatic actuator DIASTAR
Series 028 FC

Size (inch)	DN (mm)	d (mm)	Size	for EPDM Code	Weight (kg)	for PTFE/ EPDM Code	Weight (kg)
½	15	20	1	**198 150 091**	0.270	**198 150 097**	0.295
¾	20	25	2	**198 150 126**	0.705	**198 150 126**	0.705
1	25	32	2	**198 150 093**	0.656	**198 150 098**	1.000
1 ¼	32	40	3	**198 150 094**	1.380	**198 150 124**	1.380
1 ½	40	50	4	**198 150 095**	2.172	**198 150 099**	2.100
2	50	63	4	**198 150 125**	3.000	**198 150 125**	3.000



Pneumatic actuator DIASTAR
Series 025 FC

Size (inch)	DN (mm)	Size	d (mm)	for EPDM Code	Weight (kg)	for PTFE/ EPDM Code	Weight (kg)
2 ½	65		75	**198 150 736**	3.700	**198 150 736**	3.700
3	80		90	**198 150 737**	13.144	**198 150 737**	13.144
4	100		110	**198 150 738**	14.295	**198 150 738**	14.295
6	150		160	**198 150 739**	21.500		



Pneumatic actuator DIASTAR
Series 025 FO

Size	DN (mm)	Size (inch)	d (mm)	for PTFE/ EPDM and EPDM Code	Weight (kg)
	65	2 ½	75	**198 150 746**	3.700
	80	3	90	**198 150 747**	9.500
	100	4	110	**198 150 748**	3.700
	150	6	160	**198 150 749**	3.700



Pneumatic actuator DIASTAR
Series 025 DA

DN (mm)	Size (inch)	d (mm)	Size	for EPDM Code	Weight (kg)	for PTFE/ EPDM Code	Weight (kg)
65	2 ½	75		**198 150 756**	10.440	**198 150 756**	10.440
80	3	90		**198 150 757**	3.700	**198 150 757**	3.700
100	4	110		**198 150 758**	3.700	**198 150 758**	3.700
150	6	160		**198 150 759**	3.700	**198 150 759**	3.700



Diaseptic DIASTAR
Type 025 full plastic actuator PPS GF40

DN (mm)	FC Code	Weight (kg)	FO Code	Weight (kg)	DA Code	Weight (kg)
15	**198 151 126**	0.785	**198 151 136**	0.311	**198 151 142**	0.286
20	**198 151 127**	0.800	**198 151 137**	0.623	**198 151 143**	0.590
25	**198 151 128**	1.611	**198 151 138**	0.680		
32	**198 151 129**	2.873	**198 151 139**	1.256		
40	**198 151 130**	4.208	**198 151 140**	2.253		
50	**198 151 131**	4.819	**198 151 141**	2.399		



Diaseptic DIASTAR
Type 025 with stainless steel intemediate part

DN (mm)	FC size 1 Code	Weight (kg)	FO Code	Weight (kg)	DA Code	Weight (kg)
8	**198 151 148**	0.540	**198 151 156**	0.502	**198 151 163**	0.484
15	**198 151 149**	0.611	**198 151 157**	0.563	**198 151 164**	0.545
20	**198 151 151**	1.358	**198 151 158**	1.178	**198 151 165**	1.148
25	**198 151 152**	2.262	**198 151 159**	2.223	**198 151 166**	2.138
40	**198 151 154**	5.813	**198 151 161**	5.817	**198 151 168**	5.560
50	**198 151 155**	6.087	**198 151 162**	6.610	**198 151 169**	6.353



Diaseptic DIASTAR
Diaseptic type 028 plastic acuator PPS GF40

DN (mm)	FC Code	SP	Weight (kg)
15	**198 151 120**	1	0.352
20	**198 151 121**	1	0.730
25	**198 151 122**	1	0.837
32	**198 151 123**	1	1.580
40	**198 151 124**	1	2.663
50	**198 151 125**	1	2.959

Accessories for pneumatic stroke actuators



For diaphragm valve type DIASTAR
Min./max. stroke limiter/manual override

At DN100 - 150 only max. Lift limiter

DN-DN (mm)	Ten/028 FC Code	Ten Plus/ Sixteen/025 FC Code	Ten/025 FO/DA Code	Weight (kg)
- - 15	**199 190 381**	**199 190 382**	**199 190 381**	0.057
- - 20	**199 190 382**	**199 190 382**	**199 190 382**	0.068
- - 25	**199 190 382**	**199 190 383**	**199 190 382**	0.068
- - 32	**199 190 383**	**199 190 384**	**199 190 383**	0.120
- - 40	**199 190 384**	**199 190 385**	**199 190 384**	0.143
- - 50	**199 190 384**	**199 190 385**	**199 190 384**	0.143
65 - 80		**199 190 318**	**199 190 318**	0.500
100 - 150		**199 190 319**	**199 190 319**	0.500

Fusion machines and tools



Fusion machines and tools

IR and BCF fusion machines



IR-110 A Automated Fusion Machine

Model:

- Fully equipped automated infrared fusion machine with integrated working table for use under clean room conditions
- Welding of PVDF SYGEF (Standard/Plus), ECTFE SYGEF, PP grey PROGEF (Standard/Plus), PP-n PROGEF Natural, PE100 ecoFIT, IR PVC-U
- Dimensions d20-110 mm
- User friendly touch-screen interface 12.1" with various languages
- 4 USB interfaces, LAN Ethernet interface, 230 V Output
- Automated facer, clamping slide and heater
- Integrated video camera and temperature sensors
- Movable clamping units
- Clamping inserts d20-90 mm (8 pcs. per dimension), **not for PVC-U metric**
- End caps PE d20-110 mm (4 pcs. per dimension)
- Shavings collection tray
- Transport box with integrated pallet
- 1-phase AC (50/60 Hz) 230V L/N/PE
- Power supply cable 230V EU Standard
- Torx key (T10) for facing knives
- Cleaning brush
- Integrated label printer (including white ribbon 24mm)

Note:
Clamping inserts PVC-U metric on request

Suitable for	Code	Weight (kg)
d20- 110 mm	**790 164 001**	250





IR-400 A Automated Fusion Machine (only a rental pool machine)

Model:

- Fully equipped automated infrared fusion machine and working table designed for industrial applications and clean room conditions
- Welding of PVDF SYGEF Plus
- Dimensions d355-400mm
- Automated facer, clamping slide and heater
- User friendly touch-screen interface 12.1" with various languages
- 4 USB interfaces, LAN Ethernet interface, 230 V Output
- Integrated video camera and temperature sensors
- Clamping inserts d355-400 mm (8 pcs. per dimension)
- End caps PE d355-400 mm (4 pcs. per dimension)
- Transport cases (fusion machine and working table)
- 3-phase AC (50/60 Hz) 400 V L1/L2/L3/N/PE
- Set of facing knives (2 pcs.)
- Torx key (T25) for facing knife
- Hexagon keys (10 mm + 8 mm)
- Cleaning brush
- Integrated label printer (including white ribbon 24mm)

Suitable for	Code	Weight (kg)
d355 - 400 mm	**790 166 001**	1273.000



IR-110 Plus Fusion Machine (without PVC-U parameter)

Model:

- Fully-equipped manually operated infrared fusion machine for use under clean room conditions
- Welding of PVDF SYGEF (Standard/Plus), ECTFE SYGEF, PP-H PROGEF (Standard/Plus), PP-n PROGEF Natural, PE100 ecoFIT, PFA
- Dimensions d20-110 mm
- Monochrome display with icons and various languages
- 2 USB interfaces
- Heating and facing element
- Clamping slide with movable clamping units
- Clamping inserts d20-90 mm (8 pcs. per dimension)
- End caps PE d20-110 mm (4 pcs. per dimension)
- Pipe stop
- Clean-room compatible accessory tray with tools
- Transport box with integrated pallet
- 1-phase AC (50/60 Hz) 230V L/N/PE
- Power supply cable 230V
- Integrated label printer (including white ribbon 24mm)

Note:

Clamping inserts PFA (inch) on request
Clamping inserts CONTAIN-IT Plus on request

Suitable for	Code	Weight (kg)
d20- 110 mm	**790 132 001**	110



IR-225 Plus Fusion Machine (soon to be replaced by IR-225 M)

Model:

- Fully-equipped manually operated infrared fusion machine with integrated working table for use under clean room conditions
- Welding of PVDF SYGEF (Standard/Plus), ECTFE SYGEF, PP-H PROGEF (Standard/Plus), PP-n PROGEF Natural, PE100 ecoFIT
- Dimensions d63-225 mm
- Monochrome display with icons and various languages
- 2 USB interfaces
- Heating and facing element
- Clamping slide with movable clamping units
- Cooling fan
- Clamping inserts d63-225 mm (8 pcs. per dimension)
- End caps PE d63-225 mm (4 pcs. per dimension)
- Pipe stop
- Transport box with integrated pallet (stainless steel)
- 1-phase AC (50/60 Hz) 230V L/N/PE or 3-phase AC (50/60 Hz) 400V/230VL1/L2/L3/N/PE
- Connecting cable 400V - 230V
- Additional tools
- Integrated label printer (including white ribbon 24mm)

Note:

Clamping inserts CONTAIN-IT Plus on request

Suitable for	Code	Weight (kg)
d63 - 225 mm	**790 133 009**	453



BCF-63 Plus Fusion Machine

Model:

- Fully-equipped manually operated fusion machine with integrated remote welding unit for bead and crevice free jointing for use under clean room conditions
- Welding of PVDF SYGEF (Standard/Plus), PP-n PROGEF Natural
- Dimensions d20-63 mm
- Monochrome display with icons and various languages
- 2 USB interfaces
- Heating stations d20-63 mm (6 pcs.)
- Facing tool (1 pcs.) incl. facing inserts d20-63 mm (6 pcs.)
- Facing tool support
- Movable clamping units
- Cooling fan
- Clamping units (2 pcs.) with clamping inserts d20-63 mm (4 pcs. per dimension)
- Supporting tools d20-63 mm (2 pcs.)
- Transport box with integrated pallet
- 1-phase AC (50/60 Hz) 115 / 230 V L/N/PE
- Extension cable for remote welding (8m)
- Bladder Remove Tool (BReT)
- Hose box incl. air hose (16m)
- Hose cutter
- Integrated label printer (including white ribbon 24mm)

Note:

Bladders to be ordered separately.

Code	Weight (kg)	Suitable for
790 121 002	153.000	d20-63 mm



BCF-110 Plus Fusion Machine

Model:

- Fully-equipped manually operated fusion machine with integrated remote welding unit for bead and crevice free jointing for use under clean room conditions
- Welding of PVDF SYGEF (Standard/Plus), PP-n PROGEF Natural
- Dimensions d20-110 mm
- Monochrome display with icons and various languages
- 2 USB interfaces
- Heating stations d20-110 mm (9 pcs.)
- Facing tool with facing inserts d20-63 mm (6 pcs.)
- Facing tool with facing inserts d75-110 mm (3 pcs.)
- Facing tool support
- Movable clamping units
- Cooling fan
- Clamping units (2 pcs.) with clamping inserts d20-63 mm (4 pcs. per dimension)
- Clamping units (2 pcs.) with clamping inserts d75-110 mm (4 pcs. per dimension)
- Adapter for clamping unit d75-110 mm (2 pcs.)
- Supporting tools d20-63 mm (2 pcs.)
- Supporting tools d75-110 mm (2 pcs.)
- Transport box with integrated pallet
- 1-phase AC (50/60 Hz) 115 / 230 V L/N/PE
- Extension cable for remote welding (8m)
- Bladder Remove Tool (BReT)
- Hose box incl. air hose (16m)
- Hose cutter
- Integrated label printer (including white ribbon 24mm)

Note:

Bladders to be ordered separately.

Code	Weight (kg)	Suitable for
790 121 001	188.000	d20 - 110 mm



Bladder BCF Plus for PROGEF Natural PP-n

- d20-63: Only suitable for welding PROGEF Natural PP-n. **Blue bladder head!**
- d75-110: Suitable for welding PROGEF Natural PP-n and SYGEF PVDF. **Silver bladder head!**

d (mm)	Code	Weight (kg)	Pieces
20	**790 122 091**	0.038	1
25	**790 122 092**	0.021	1
32	**790 122 093**	0.040	1
40	**790 122 094**	0.050	1
50	**790 122 095**	0.105	1
63	**790 122 096**	0.138	1
75	**790 121 047**	0.203	1
90	**790 121 048**	0.265	1
110	**790 121 049**	0.552	1



IR-63 M Standard Fusion Machine (with CONNECT box, without extension cable set)

Model:

- Manually operated infrared fusion machine with integrated remote welding unit
- Welding of PVDF SYGEF (Standard/Plus), ECTFE SYGEF, PP-H PROGEF (Standard/Plus), PP-n PROGEF Natural, PE100 ecoFIT, PVC-U metric & PFA inch
- Dimensions d20-63 mm
- A safety glass protected 7" touchscreen
- 2x USB-A, 2x USB-C ports & Ethernet port
- Clamping slide with movable & exchangeable clamping units
- Half shells d20-50 mm (8 pcs. per dimension)
- End caps PE d20-63 mm (4 pcs. per dimension)
- Pipe stop fix, 2mm facing distance
- Pipe stop adjustable, 0.5-3mm facing distance
- 1-phase AC (50/60 Hz) 230V L/N/PE
- Power supply cable 230 V
- Label printer
- CONNECT Welding box

Option:

- Half shells PFA inch
- Extension cable set for remote weldings

Suitable for	Code	Weight (kg)
d20-63 mm	**790 180 001**	59.0



IR-63 M Complete Fusion Machine (with extension cable set & CONNECT box)

Model:

- Manually operated infrared fusion machine with integrated remote welding unit
- Welding of PVDF SYGEF (Standard/Plus), ECTFE SYGEF, PP-H PROGEF (Standard/Plus), PP-n PROGEF Natural, PE100 ecoFIT, PVC-U metric & PFA inch
- Dimensions d20-63 mm
- A safety glass protected 7" touchscreen
- 2x USB-A, 2x USB-C ports & Ethernet port
- Pipe stop adjustable, 0.5-3mm facing distance
- Clamping slide with movable & exchangeable clamping units
- Half shells d20-50 mm (8 pcs. per dimension)
- End caps PE d20-63 mm (4 pcs. per dimension)
- Pipe stop fix, 2mm facing distance
- 1-phase AC (50/60 Hz) 230V L/N/PE
- Power supply cable 230 V
- Integrated label printer (including white ribbon 24mm)
- Extension cable
- CONNECT Welding box

Option:

- Half shells PFA inch

Suitable for	Code	Weight (kg)
d20-63 mm	**790 180 003**	63.0





IR-315 A Automated Fusion Machine

Model:

- Fully equipped automated infrared fusion machine and working table designed for industrial applications and clean room conditions
- Welding of PVDF SYGEF (Standard/Plus), PP grey PROGEF (Standard/Plus), PE100 ecoFIT
- Dimensions d110-315 mm
- Automated facer, clamping slide and heater
- Integrated cooling system
- User friendly touch-screen interface 12.1" with various languages
- 4 USB interfaces, LAN Ethernet interface, 230 V Output
- Integrated video camera and temperature sensors
- Clamping inserts d110-280 mm (8 pcs. per dimension)
- End caps PE d110-315 mm (4 pcs. per dimension)
- Transport cases with integrated euro-pallete (fusion machine and working table)
- 3-phase AC (50/60 Hz) 400 V L1/L2/L3/N/PE
- Set of facing knives (2 pcs.)
- Torx key (T25) for facing knife
- Hexagon keys (10 mm + 8 mm)
- Fork key (24 mm)
- Cleaning brush
- Integrated label printer (including white ribbon 24mm)

Suitable for	Code	Weight (kg)
d110 - 315 mm	**790 165 001**	1049.000



BCF-63 Plus Basic Machine

Model:

- Manually operated fusion machine with integrated remote welding unit for beadand crevice free jointing for use under clean room conditions
- Welding of PVDF SYGEF (Standard/Plus), PP-n PROGEF Natural
- Dimensions d20-63 mm
- Monochrome display with icons and various languages
- 2 USB interfaces
- Facing tool (1 pcs.) incl. facing inserts d20-63 mm (6 pcs.)
- Facing tool support
- Movable clamping units
- Cooling fan
- Clamping units (2 pcs.) with clamping inserts d20-63 mm (4 pcs. per dimension)
- Supporting tools d20-63 mm (2 pcs.)
- Transport box
- 1-phase AC (50/60 Hz) 115 / 230 V L/N/PE
- Extension cable for remote welding (8m)
- Bladder Remove Tool (BReT)
- Hose box incl. air hose (16m)
- Hose cutter

Code	Weight (kg)
790 121 004	144.000

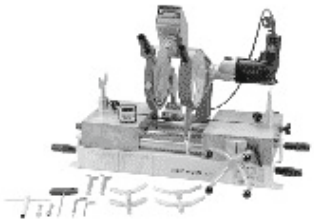
Butt and socket fusion machines



SG 125
Socket fusion machine

- Portable heating element - socket fusion machine for use in the workshop and on job sites.
- For fusion jointing of PP and PE pipes and fittings
- **BASE MACHINE**
- Compact, sturdy design, distortion-free machine bed
- Handwheel with torque locking mechanism for the slide movement
- Fast selection of insertion depth according to the pipe dimension
- **HEATER**
- With electronic temperature control
- High temperature accuracy over the entire heating surface
- **ADDITIONAL STANDARD EQUIPMENT**
- Universal, left and right prismatic clamping devices, complete, for clamping pipe and fittings. Additional set of prismatic clamping devices for outer clamping of pipes available as an option.
- V-shaped pipe support
- Back stop
- Machine specific tool set
- Timer to clock fusion times
- Including transport packaging, without accessories

d1 (mm)	d2 (mm)	Power	Code	Weight (kg)
16	125	230 V/1500 W	**790 310 034**	65.000
16	125	115 V/1500 W	**790 310 036**	65.000



SG 160
Combined butt and socket fusion machine for industrial applications

Mobile, very compact and universal plastic fusion machine for PP, PE and PVDF pipes and fittings for use in the workshop and on job sites. Butt fusion d 32 - 160 mm, all pressure ratings up to PE/PP SDR 11; PVDF SDR 21. Socket fusion d 16 - 110 mm

- **BASE MACHINE**
- High precision design, distortion-free and sturdy machine frame
- Handwheel for easy moving of machine carriage
- Exact pressure adjustment via direct spring load transfer
- Hardened and hard chrome-plated guide shafts for extreme loads
- All clamping possibilities for base clamping plates, pipe supports, back stop and prismatic clamping devices
- **PLANER**
- Planing device made of light cast aluminium
- Optimized cutting geometry for even and chatter-free planing
- Powerful parallel planer for single or double-sided facing of pipe ends
- Integrated pick up for easy mounting of calibration tools for machining of pipe ends in socket fusion
- **HEATER**
- High performance, electronically controlled heating element
- High accuracy of +/- 4°C over the entire heating surface
- Exact LCD adjustment of heater temperature
- High-quality, easy to replace, non-stick PTFE fabric for the heater
- **ADDITIONAL STANDARD EQUIPMENT**
- Including complete set of accessories as: 4 clamps for butt fusion with reduction inserts d 32-160 mm, 2 prismatic clamps for socket fusion with V-shaped supports and calibration tools for machining of pipe ends d 16 - 110 mm, heating spigots and bushings for socket fusion d 16 - 110 mm, tempil sticks 253°C and 274°C
- Timer to clock fusion times
- Including transport packaging and machine specific tool set

d1 (mm)	d2 (mm)	Power	Code	Weight (kg)
16	160	230 V/2200 W	**790 103 004**	223.000





MSE 63/MSE 110 Socket fusion tool

- For fusion jointing of PP and PE pipes and fittings
- Electronic temperature control
- Support for heating bushes and spigots of d 16 to 63 mm (110 mm)
- Pick up for floor stand or table clamp
- Monitoring and setting of heating element temperature
- High temperature accuracy over the entire heating surface
- The 115 V type is available both in the version with plug (US standard NEMA 5-15P) and in the version without plug, to make possible for the customer to assemble any other type of plug, compatible with the tool technical specifications, under his own responsibility.

Description	d1 (mm)	d2 (mm)	Power	Code	Weight (kg)
MSE 63 E with Schuko plug	16	63	230 V/800 W	**790 105 082**	1.800
MSE 63 E with Swiss plug	16	63	230 V/800 W	**790 105 071**	1.800
MSE 63 E without plug	16	63	115 V/800 W	**790 105 097**	2.145
MSE 63 E with US plug	16	63	115 V/800 W	**790 105 164**	2.200
MSE 110 E with Schuko plug	16	110	230 V/1500 W	**790 105 084**	3.200
MSE 110 E with Swiss plug	16	110	230 V/1500 W	**790 105 072**	3.200
MSE 110 E without plug	16	110	115 V/1500 W	**790 105 127**	3.200
MSE 110 E with US plug	16	110	115 V/1500 W	**790 105 175**	3.250



MSE 63/MSE 110 Socket fusion toolset

- For fusion jointing of PP and PE pipes and fittings
- All devices equipped with on/off switch, mains and temperature control lamp
- Electronic temperature control
- Support for heating bushes and spigots of d 16 to 63 mm (110 mm)
- Pick up for floor stand or table clamp
- Monitoring and setting of heating element temperature
- High temperature accuracy over the entire heating surface
- High-quality, non-stick PTFE-coating with long service life
- Heating bushes and spigots
- Available as a complete set in a practical metal case
- Table clamp
- Floor stand for MSE 63
- Alen screws and key
- The 115 V type is available both in the version with plug (US standard NEMA 5-15P) and in the version without plug, to make possible for the customer to assemble any other type of plug, compatible with the tool technical specifications, under his own responsibility.

Description	d1 (mm)	d2 (mm)	Power	Code	Weight (kg)
MSE 63 E with Schuko plug	16	63	230 V/800 W	**790 105 086**	8.700
MSE 63 E with Swiss plug	16	63	230 V/800 W	**790 105 073**	8.700
MSE 63 E without plug	16	63	115 V/800 W	**790 105 099**	9.979
MSE 63 E with US plug	16	63	115 V/800 W	**790 105 123**	10.050
MSE 110 E with Schuko plug	16	110	230 V/1500 W	**790 105 088**	16.523
MSE 110 E with Swiss plug	16	110	230 V/1500 W	**790 105 074**	16.523
MSE 110 E without plug	16	110	115 V/1500 W	**790 105 129**	18.000
MSE 63 E with US plug	16	110	115 V/1500 W	**790 105 135**	18.050



IM 160
Butt fusion machine for industrial applications

- Butt fusion machine for PP, PE, PB and PVDF pipes and fittings for industrial applications with pressure piping systems.
- Compact and sturdy design for use in the workshop and on jobsites.
- Designed to provide the highest flexibility to adapt to different sizes or shapes of fittings.
- Dimensional range: d32 - 160 mm, from SDR 41 up to SDR 11 with PE, PP d160 mm.
- **BASE MACHINE**
- High precision, distortion-free and robust machine base
- Handwheel for easy moving of machine carriage
- Exact pressure adjustment via direct spring load transfer
- Fast-locking base clamping plates, right and left, d 160 mm
- Weight (including planer and heater): 53 kg
- **PLANER**
- Load transfer via robust chain drive
- Optimized cutting geometry for even and chatter-free planing
- Swivel mounted for ergonomic handling
- Mechanical stop to provide single sided planing and defined facing depth
- **HEATER**
- High performance, electronically controlled heating element
- High accuracy of +/- 4°C over the entire heating surface
- High quality, non-stick PTFE coating
- Metal sheet cover to protect the heating plate in idle position
- The heating element can be used as manual fusion tool
- **ADDITIONAL STANDARD EQUIPMENT**
- Complete reduction clamping inserts set d 32 - 140 mm
- V-shaped pipe support with inserts d 32 - 140 mm
- Timer to clock fusion times
- Machine specific tool set
- Wooden transport crate, usable as working bench, also available as special version made of coated plywood with aluminium profiles, optmized design for pallet truck handling and storage drawer for reduction inserts and tools

d1 (mm)	d2 (mm)	Power Supply	Power	Description	Code	Weight (kg)
32	160	230 V	1700 W	Standard transport crate	**790 141 001**	123.000
32	160	230 V	1700 W	Special transport crate	**790 141 003**	157.000
32	160	230 V	1700 W	Standard transport crate, Swiss plug	**790 141 011**	123.000
32	160	230 V	1700 W	Special transport crate, Swiss plug	**790 141 012**	157.000
32	160	115 V	1700 W	Special transport crate	**790 141 009**	157.000
32	160	115 V	1700 W	Standard transport crate	**790 141 008**	123.000



IM 315
Butt fusion machine for industrial applications

- Butt fusion machine for PP, PE, PB and PVDF pipes and fittings for industrial applications with pressure piping systems.
- Extremely sturdy design for use in the workshop and on job sites.
- Designed to provide the highest flexibility to adapt to different sizes or shapes of fittings.
- Angular jointing provided up to 30° (2x15°) for prefabrication of segmented fittings.
- Dimensional range for straight jointing: d90-315 mm, from SDR 41 up to SDR 11 with PE,PP d315 mm. Limitations in the dimensional range are to be considered for angular jointing, depending on the angle (refer to user's manual).
- **BASE MACHINE**
- High precision, distortion-free and robust machine base
- Integrated swivel tables for angular jointing up to 30° (2x15°)
- Handwheel for easy moving of machine carriage
- Exact pressure adjustment via direct spring load transfer
- Fusion pressure is maintained with a user friendly fast-locking handle
- Inner left and right clamping elements, for picking up reduction clamping inserts d 90-315 mm, with fast-locking handle
- Optional outer, horizontally removable clamping devices available
- Weight (including planer and heater): 169 kg
- **PLANER**
- Optimized cutting geometry for even and chatter-free planing
- Swivel mounted for ergonomic handling
- Mechanical stop to provide single sided planing and defined facing depth
- Integrated safety switch to prevent unintentional start-up
- Self-locking mechanism in working position
- **HEATER**
- High-performance and precision heater with electronic temperature control (2500W)
- High accuracy of +/- 4°C over the entire heating surface
- High quality, non-stick PTFE coating
- Pull-off mechanism to automatically detach the heating plate from pipe ends
- Metal sheet cover to protect the heating plate in idle position
- Integrated thermometer for fast visual check of plate temperature
- **ADDITIONAL STANDARD EQUIPMENT**
- Reduction clamping inserts set d 90-315 mm
- Pipe supports for picking up reduction supporting inserts d 90-315 mm
- Reduction pipe supporting inserts set d 90-315 mm
- Timer to clock fusion times
- Machine specific tool set

d1 (mm)	d2 (mm)	Power	Description	Code	Weight (kg)
90	315	230 V / 3500 W	Without transport crate	**790 143 005**	229.000
90	315	230 V / 3500 W	With standard transport crate	**790 143 001**	269.000
90	315	230 V / 3500 W	With special transport crate	**790 143 003**	366.000
90	315	230 V / 3500 W	Without transport crate, Swiss plug	**790 143 033**	229.000
90	315	230 V / 3500 W	With standard transport crate, Swiss plug	**790 143 034**	269.000
90	315	230 V / 3500 W	With special transport crate, Swiss plug	**790 143 035**	366.000



IM 315 - D
Butt fusion machine for industrial applications

- Butt fusion machine for PP, PE, PB and PVDF pipes and fittings for industrial applications with pressure piping systems.
- Equipped with a load cell and digital display for easy viewing and precise indication of the welding force.
- Extremely sturdy design for use in the workshop and on job sites.
- Designed to provide the highest flexibility to adapt to different sizes or shapes of fittings.
- Angular jointing provided up to 30° (2x15°) for prefabrication of segmented fittings.
- Dimensional range for straight jointing: d90-315 mm, from SDR 41 up to SDR 11 with PE,PP d315 mm. Limitations in the dimensional range are to be considered for angular jointing, depending on the angle (refer to user's manual).
- **BASE MACHINE**
- High precision, distortion-free and robust machine base
- Integrated swivel tables for angular jointing up to 30° (2x15°)
- Handwheel for easy moving of machine carriage
- Exact pressure adjustment via direct spring load transfer
- Digital display for force indication
- Fusion pressure is maintained with a user friendly fast-locking handle
- Inner left and right clamping elements, for picking up reduction clamping inserts d 90-315 mm, with fast-locking handle
- Optional outer, horizontally removable clamping devices available
- Weight (including planer and heater): 169 kg
- **PLANER**
- Optimized cutting geometry for even and chatter-free planing
- Swivel mounted for ergonomic handling
- Mechanical stop to provide single sided planing and defined facing depth
- Integrated safety switch to prevent unintentional start-up
- Self-locking mechanism in working position
- **HEATER**
- High-performance and precision heater with electronic temperature control (2500W)
- High accuracy of +/- 4°C over the entire heating surface
- High quality, non-stick PTFE coating
- Pull-off mechanism to automatically detach the heating plate from pipe ends
- Metal sheet cover to protect the heating plate in idle position
- Integrated thermometer for fast visual check of plate temperature
- **ADDITIONAL STANDARD EQUIPMENT**
- Reduction clamping inserts set d 90-315 mm
- Pipe supports for picking up reduction supporting inserts d 90-315 mm
- Reduction pipe supporting inserts set d 90-315 mm
- Timer to clock fusion times
- Machine specific tool set

d1 (mm)	d2 (mm)	Power	Description	Code	Weight (kg)
90	315	230 V / 3500 W	With standard transport crate	**790 143 002**	269.000
90	315	230 V / 3500 W	With special transport crate	**790 143 004**	366.000
90	315	230 V / 3500 W	With standard transport crate, Swiss plug	**790 143 036**	269.000
90	315	230 V / 3500 W	With special transport crate, Swiss plug	**790 143 037**	366.000



IM 315 Outer base clamping devices

	d (mm)	Code	Weight (kg)
Type: Left	315	**790 143 030**	15.867
Type: Right	315	**790 143 031**	15.867















GF 400
Butt fusion machine for construction site

Butt Fusion machine to joint PE, PP, PB pipes and fittings for pressure piping systems on building sites and in trenches.
Hydraulically operated with manual control unit.
Control box with integrated temperature controller and power outlets (type 400 V).
Separate remote temperature controller for the heating element (type 230 V).
Including transport packaging (wooden crate); reduction clamping inserts and other accessories to be ordered separately.

- **BASE MACHINE**
- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 35° inclination
- The movable (sliding) 3rd clamp allows easy and time-saving fixation of bends or tees without need of additional tools
- Clamps are hinged on the top side and tilting. Whenever necessary, the four clamps can be quickly removed
- Double-sided heating element pull-off mechanism to optimise the change-over phase
- Weight: 95 kg
- **HYDRAULIC UNIT**
- Compact and robust, with full closed metal housing and two handles for carrying
- Precise pressure setting and fine adjusting
- Joystick operation of machine carriage
- Clearly visible, vibration-free pressure gauge with precision scaling
- Accumulator for pressure equalization during the cooling phase
- Max operating pressure: 160 bar
- Weight: 41 kg
- Input power: 230 V / 1100 W
- **PLANER**
- Powerful parallel planer for single or double-sided facing of pipe ends
- Self-locking mechanism in working position
- Safety microswitch to prevent undesired start-up
- Weight: 47 kg
- Input power: 230V/1100 W
- **HEATING ELEMENT**
- High performance, electronically controlled heating element
- High-quality, non-stick PTFE-coating with long service life
- Temperature indicator integrated into the handle
- Weight: 16 kg
- Input power: 230V/3500W
- **CONTROL BOX**
- Only with type 400 V
- Contains all safety and functional components such as static relay, FI protective switch, temperature control
- Compact unit in steel box with enamel-coated protective frame
- Integrated power outlets for all machine components, only 1 plug to the generator
- Weight: 15 kg
- **CASE**
- For safe storage of planer and heating element
- Weight: 30 kg

Type	d-d (mm)	Performance	Code	Weight (kg)
GF 400, 400 V	125 - 400	400 V/5700 W	**790 127 010**	366.000
GF 400, 230 V	125 - 400	230 V/5700 W	**790 127 001**	355.000





CNC 4.0 400
Automatic butt fusion machine for construction site

Butt Fusion machine to joint PE, PP, PB pipes and fittings for pressure piping systems on building sites and in trenches.
Hydraulically operated with automatic CNC control unit.
Including transport packaging (wooden crate); reduction clamping inserts and other accessories to be ordered separately.

- **BASE MACHINE**
- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 35° inclination
- The movable (sliding) 3rd clamp allows easy and time-saving fixation of bends or tees without need of additional tools
- Clamps are hinged on the top side and tilting. Whenever necessary, the four clamps can be quickly removed
- Double-sided heating element pull-off mechanism to optimise the change-over phase
- The distance control (potentiometer) mounted into the base machine grants control and safety throughout the complete working process
- Weight: 95 kg
- **HYDRAULIC UNIT**
- Compact aluminium case with innovative design
- Intuitive colour touch screen interface
- Operator guidance from preparation to the end of the jointing process by use of symbols and graphics
- Automatic calculation, regulation and control of the fusion parameters - pressure, time and temperature - according to country specific guidelines
- Integrated GPS receiver
- 10 freely programmable fusion cycles (e.g. for non standard pipe dimensions)
- Selection of language
- Operator ID (ISO 12176-3), job number and pipe codes (ISO 12176-4) could be input by means of the barcode scanner (to be ordered separately)
- On site check of the memorized fusion protocols status directly on the touchscreen
- Transfer of memorized fusion protocols to an external PC via USB memory stick (included)
- Fusion protocols compatible with GFs application
- Integrated power outlets for planer, heating element
- Accumulator for pressure equalization during the cooling phase
- Max operating pressure: 160 bar
- Weight: 37 kg
- **PLANER**
- Powerful parallel planer for single or double-sided facing of pipe ends
- Self-locking mechanism in working position
- Safety microswitch to prevent undesired start-up
- Weight: 47 kg
- **HEATING ELEMENT**
- High performance, electronically controlled heating element
- High-quality, non-stick PTFE-coating with long service life
- Temperature indicator integrated into the handle
- Weight: 16 kg
- Input power: 230V/3500W
- **CASE**
- For safe storage of planer and heating element
- Weight: 30 kg

Type	d-d (mm)	Performance	Code	Weight (kg)
CNC 4.0 400	125 - 400	400 V/5700 W	**790 153 001**	320.000















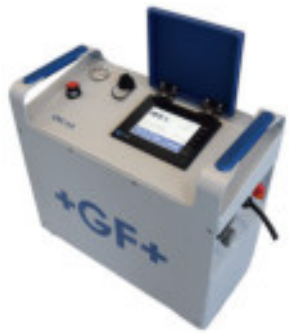
GF 500
Butt fusion machine for construction site

Butt Fusion machine to joint PE, PP, PB pipes and fittings for pressure piping systems on building sites and in trenches.
Hydraulically operated with manual control unit.
Control box with integrated temperature controller and power outlets.
Performance: PE up to d 500 mm SDR 11; PP up to d 500 mm SDR 26.
Special type **GF 500 PP** available with enhanced performance to work with PP pipes and fittings up to d 500 mm SDR 11.
Including transport packaging (wooden crate); reduction clamping inserts and other accessories to be ordered separately.

- **BASE MACHINE**
- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 35° inclination
- The movable (sliding) 3rd clamp allows easy and time-saving fixation of bends or tees without need of additional tools
- Clamps are hinged on the top side and tilting. Whenever necessary, the four clamps can be quickly removed
- Double-sided heating element pull-off mechanism to optimise the change-over phase
- Weight: 169 kg
- **HYDRAULIC UNIT**
- Compact and robust, with full closed metal housing and two handles for carrying
- Precise pressure setting and fine adjusting
- Joystick operation of machine carriage
- Clearly visible, vibration-free pressure gauge with precision scaling
- Accumulator for pressure equalization during the cooling phase
- Max operating pressure: 160 bar
- Weight: 41 kg
- **PLANER**
- Powerful parallel planer for single or double-sided facing of pipe ends
- Self-locking mechanism in working position
- Safety microswitch to prevent undesired start-up
- Weight: 58 kg
- **HEATING ELEMENT**
- High performance, electronically controlled heating element
- High-quality, non-stick PTFE-coating with long service life
- Temperature indicator integrated into the handle
- Weight: 26 kg
- Input power: 400 V / 4000 W
- **CONTROL BOX**
- Contains all safety and functional components such as static relay, FI protective switch, temperature control
- Compact unit in steel box with enamel-coated protective frame
- Integrated power outlets for all machine components, only 1 plug to the generator
- Weight: 15 kg
- **CASE**
- For safe storage of planer and heating element
- Weight: 38 kg

Type	d-d (mm)	Performance	Description	Code	Weight (kg)
GF 500	200 - 500	400 V/6250 W	Standard	**790 116 040**	497.000
GF 500 PP	200 - 500	400 V/7000 W	Enhanced performance for PP applications	**790 154 006**	502.000





CNC 4.0 500
Automatic butt fusion machine for construction site

Butt Fusion machine to joint PE, PP, PB pipes and fittings for pressure piping systems on building sites and in trenches.
Hydraulically operated with automatic CNC control unit.
Performance: PE up to d 500 mm SDR 11; PP up to d 500 mm SDR 26.
Special type **CNC 4.0 500 PP** available with enhanced performance to work with PP pipes and fittings up to d 500 mm SDR 11
Including transport packaging (wooden crate); reduction clamping inserts and other accessories to be ordered separately.

- **BASE MACHINE**
- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 35° inclination
- The movable (sliding) 3rd clamp allows easy and time-saving fixation of bends or tees without need of additional tools
- Clamps are hinged on the top side and tilting. Whenever necessary, the four clamps can be quickly removed
- Double-sided heating element pull-off mechanism to optimise the change-over phase
- The distance control (potentiometer) mounted into the base machine grants control and safety throughout the complete working process
- Weight: 169 kg
- **HYDRAULIC UNIT**
- Compact aluminium case with innovative design
- Intuitive colour touch screen interface
- Operator guidance from preparation to the end of the jointing process by use of symbols and graphics
- Automatic calculation, regulation and control of the fusion parameters - pressure, time and temperature - according to country specific guidelines
- Integrated GPS receiver
- 10 freely programmable fusion cycles (e.g. for non standard pipe dimensions)
- Selection of language
- Operator ID (ISO 12176-3), job number and pipe codes (ISO 12176-4) could be input by means of the barcode scanner (to be ordered separately)
- On site check of the memorized fusion protocols status directly on the touchscreen
- Transfer of memorized fusion protocols to an external PC via USB memory stick (included)
- Fusion protocols compatible with GFs application
- Integrated power outlets for planer, heating element
- Accumulator for pressure equalization during the cooling phase
- Max operating pressure: 160 bar
- Weight: 37 kg
- **PLANER**
- Powerful parallel planer for single or double-sided facing of pipe ends
- Self-locking mechanism in working position
- Safety microswitch to prevent undesired start-up
- Weight: 58 kg
- **HEATING ELEMENT**
- High performance, electronically controlled heating element
- High-quality, non-stick PTFE-coating with long service life
- Temperature indicator integrated into the handle
- Weight: 26 kg
- Input power: 400 V / 4000 W
- **CASE**
- For safe storage of planer and heating element
- Weight: 38 kg

Type	d-d (mm)	Performance	Description	Code	Weight (kg)
CNC 4.0 500	200 - 500	400 V/6300 W	Standard	**790 154 001**	463.000
CNC 4.0 500 PP	200 - 500	400 V/7000 W	Enhanced performance for PP applications	**790 154 007**	466.000















GF 630
Butt fusion machine for construction site

Butt Fusion machine to joint PE, PP, PB pipes and fittings for pressure piping systems on building sites and in trenches.
Hydraulically operated with manual control unit.
Control box with integrated temperature controller and power outlets.
Performance PE up to d 630 mm SDR 9; PP up to d 630 mm SDR 17.6
For proper handling of the heating element and planer we recommend the assembling of the hoist unit (to be ordered separately).
Including transport packaging (wooden crate); reduction clamping inserts and other accessories to be ordered separately.

- **BASE MACHINE**
- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 45° inclination
- The movable (sliding) 3rd clamp allows easy and time-saving fixation of bends or tees without need of additional tools
- Double-sided heating element pull-off mechanism to optimise the change-over phase
- Weight: 222 kg
- **HYDRAULIC UNIT**
- Compact and robust, with full closed metal housing and two handles for carrying
- Precise pressure setting and fine adjusting
- Joystick operation of machine carriage
- Clearly visible, vibration-free pressure gauge with precision scaling
- Accumulator for pressure equalization during the cooling phase
- Max operating pressure: 200 bar
- Weight: 41 kg
- **PLANER**
- Powerful parallel planer for single or double-sided facing of pipe ends
- Planer with Stop mechanism for safety
- Safety microswitch to prevent undesired start-up
- Weight: 99 kg
- **HEATING ELEMENT**
- High performance, electronically controlled heating element
- High-quality, non-stick PTFE-coating with long service life
- Temperature indicator integrated into the handle
- Weight: 39 kg
- Input power: 400 V / 8000 W
- **CONTROL BOX**
- Contains all safety and functional components such as static relay, FI protective switch, temperature control
- Compact unit in steel box with enamel-coated protective frame
- Integrated power outlets for all machine components, only 1 plug to the generator
- Weight: 27 kg
- **CASE**
- For safe storage of planer and heating element
- Weight: 55 kg

d-d (mm)	Performance	Code	Weight (kg)
315 - 630	400 V/11000 W	**790 117 032**	627.000





CNC 4.0 630
Automatic butt fusion machine for construction site

Butt Fusion machine to joint PE, PP, PB pipes and fittings for pressure piping systems on building sites and in trenches.
Hydraulically operated with automatic CNC control unit.
Performance: PE up to d 630 mm SDR 11; PP up to d 630 mm SDR 17.6
Including transport packaging (wooden crate); reduction clamping inserts and other accessories to be ordered separately.

- **BASE MACHINE**
- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 45° inclination
- The movable (sliding) 3rd clamp allows easy and time-saving fixation of bends or tees without need of additional tools
- Double-sided heating element pull-off mechanism to optimise the change-over phase
- The distance control (potentiometer) mounted into the base machine grants control and safety throughout the complete working process
- Weight: 222 kg
- **HYDRAULIC UNIT**
- Compact aluminium case with innovative design
- Intuitive colour touch screen interface
- Operator guidance from preparation to the end of the jointing process by use of symbols and graphics
- Automatic calculation, regulation and control of the fusion parameters - pressure, time and temperature - according to country specific guidelines
- Integrated GPS receiver
- 10 freely programmable fusion cycles (e.g. for non standard pipe dimensions)
- Selection of language
- Operator ID (ISO 12176-3), job number and pipe codes (ISO 12176-4) could be input by means of the barcode scanner (to be ordered separately)
- On site check of the memorized fusion protocols status directly on the touchscreen
- Transfer of memorized fusion protocols to an external PC via USB memory stick (included)
- Fusion protocols compatible with GFs application
- Integrated power outlets for planer, heating element
- Accumulator for pressure equalization during the cooling phase
- Max operating pressure: 160 bar
- Weight: 37 kg
- **PLANER**
- Powerful parallel planer for single or double-sided facing of pipe ends
- Planer with Stop mechanism for safety
- Safety microswitch to prevent undesired start-up
- Weight: 99 kg
- **HEATING ELEMENT**
- High performance, electronically controlled heating element
- High-quality, non-stick PTFE-coating with long service life
- Temperature indicator integrated into the handle
- Weight: 39 kg
- Input power: 400 V / 8000 W
- **CASE**
- For safe storage of planer and heating element
- Weight: 55 kg

d-d (mm)	Performance	Code	Weight (kg)
315 - 630	400 V/11000 W	**790 155 001**	595.000

Tools and accessories



Clamping inserts d20-50mm, IR-110 Plus

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.
- IR weldable materials: PVDF, ECTFE, PP-H, PP-n, PE100
- **Not compatible with PVC-U metric** (special clamping inserts needed)

d (mm)	Code	Weight (kg)
20	**790 132 051**	0.108
25	**790 132 052**	0.106
32	**790 132 053**	0.104
40	**790 132 054**	0.100
50	**790 132 055**	0.095



WBI-63 Tool

- Weld bead inspection of PVDF SYGEF (Standard/Plus), ECTFE SYGEF, PP-H PROGEF (Standard/Plus), PE100 ecoFIT
- Dimensions d20-d63 mm
- Clamping units d20-d63 mm
- Tablet with accessories
- Label printer Brother PT-P900Wc (including blue ribbon 24mm)

Suitable for	Code	Weight (kg)
d20 - d63	**790 170 001**	14



WBI-225 Tool

- Weld bead inspection of PVDF SYGEF (Standard/Plus), ECTFE SYGEF, PP-H PROGEF (Standard/Plus), PE100 ecoFIT
- Dimensions d20-d225 mm
- Clamping units d20-d225 mm
- Tablet with accessories
- Label printer Brother PT-P900Wc (including blue ribbon 24mm)

Suitable for	Code	Weight (kg)
d20 - d225	**790 170 002**	22

PPC Plastic pipe cutter







Model:

- For cutting of plastic pipes d6 - d160
- Suitable for all GF plastic types PE, PVC-U, PVC-C, ABS, PP, PVDF, ECTFE
- Removable deburring tool integrated

Note:

* Additional spare cutting wheel included in the handle

	d (mm)	Description	Code	Weight (kg)	Closest inch (inch)
*	6 - 63	Plastic Pipe cutter (s max. 7.00mm)	**790 109 094**	0.785	⅛ - 2
	50 - 125	Plastic Pipe cutter (s max. 16.00mm)	**790 109 095**	1.875	1 ½ - 4
	110 - 160	Plastic Pipe cutter (s max. 16.00mm)	**790 109 096**	2.255	4 - 6
	6 - 63	Spare cutting wheel d6-63mm (3 Pcs./Pu.)	**790 109 097**	0.010	
	50-125 / 110-160	Spare cutting wheel d50-125mm / d110-160mm (2 Pcs./Pu.)	**790 109 098**	0.030	



Rotary Pipe Cutter d63-200 mm / d90-315 mm

- Tool for simple right-angle precision cutting of plastic pipe with a wall thickness PVDF/PVC up to 12 mm (up to 15mm with bigger cutter 790109851) and for PP/PE up to 20 mm (up to 30 mm with bigger cutter 790109851) --> blade for PP/PE must be ordered separately Code 790109861
- Including transport box

d-d (mm)	Code	Weight (kg)
63 - 200	**790 109 850**	7.000
90 - 315	**790 109 851**	5.000



Tangit KS Cleaner

- Special cleaner for plastic fusion connections in the material of PE, PP, PB, PVDF, ECTFE and PVC-U
- Suitable for Tangit Rapid. Must not be used for solvent cementing
- DVGW approved
- DW 5290 BR 0464

Size	Code	Weight (kg)
1 liter	**799 298 023**	0.872



Half shells IR-63 M PFA inch

- The half shells are different for each dimension. They are used to clamp and position the pipe components
- For PFA Schedule 40 rigid pipe

d (inch)	Code	Weight (kg)
¼	**790 180 031**	0.031
½	**790 180 032**	0.030
¾	**790 180 033**	0.029
1	**790 180 034**	0.027
1 ½	**790 180 035**	0.019
2	**790 180 036**	0.006



Cleaning tissue KO-TON-R

Minimum order quantity 100 pieces

- This cleaning tissue is suitable for the cleaning of the welding zone of piping components, because it is lint free and clean room checked.

Code	Weight (kg)
790 122 085	0.005



Fix pipe stop IR-63 M

- Fix pipe stop with angle markings and 2 mm facing on both sides
- Angle markings enable a precise and fast installation

Suitable for	Code	Weight (kg)
d20-63 mm	**790 180 011**	0.398



Tempil sticks

Temperature (°C)	Code	SP	Weight (kg)	Color
253	**761 066 796**	1	0.012	yellow
274	**761 066 797**	1	0.014	red



Adjustable pipe stop IR-63 M

- Adjustable pipe stop for individual facing of 0.5 - 3 mm on both sides

Suitable for	Code	Weight (kg)
d20-63 mm	**790 180 012**	0.740



CONNECT Welding box IR-63 M & IR-225 M

- The CONNECT Welding box enables seamless transfer of fusion data to "CONNECT Welding"

Code	Weight (kg)
790 180 019	0.200



Extension cable set IR-63 M

- The extension cable set makes it possible to carry out remote weldings in places that are difficult to access
- The set includes extension cables for facer, heater & clamping slide, 6 Meter (19 ft) each

Suitable for	Code	Weight (kg)
d20-63 mm	**790 180 013**	3.560



Half shells IR-63 M

- The half shells are different for each dimension. They are used to clamp and position the pipe components
- Angle markings on the half shells enable a precise and fast installation
- IR weldable materials: PVDF, ECTFE, PP-H, PP-n, PE100 & PVC-U

d (mm)	Code	Weight (kg)
20	**790 180 022**	0.031
25	**790 180 023**	0.029
32	**790 180 024**	0.028
40	**790 180 025**	0.025
50	**790 180 026**	0.018



Set of end caps IR

- A set includes 4 end caps. The end caps are different for each dimension. The ends of the pipe **must** be closed. The caps prevent heat loss due to airflow in the fusion zone and guarantee optimum fusion results of the pipe components.

d (mm)	Code	Weight (kg)	Suitable for
20	**790 180 052**	0.007	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
25	**790 180 053**	0.008	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
32	**790 180 054**	0.014	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
40	**790 180 055**	0.020	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
50	**790 180 056**	0.016	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
63	**790 180 057**	0.020	IR-63 M, IR-63 Plus, IR-225 M, IR-110 Plus, IR-225 Plus, IR-110 A
75	**790 180 058**	0.034	IR-110 Plus, IR-110 A, IR-225 M
90	**790 180 059**	0.052	IR-225 M, IR-110 Plus, IR-225 Plus, IR-110 A
110	**790 180 060**	0.078	IR-225 M, IR-110 Plus, IR-225 Plus, IR-110 A, IR-315 A
125	**790 180 061**	0.139	IR-225 M, IR-225 Plus, IR-315 A
140	**790 180 062**	0.144	IR-225 M, IR-225 Plus, IR-315 A
160	**790 180 063**	0.204	IR-225 M, IR-225 Plus, IR-315 A
180	**790 180 064**	0.219	IR-225 M, IR-225 Plus, IR-315 A
200	**790 180 065**	0.305	IR-225 M, IR-225 Plus, IR-315 A

table continued on the next page

d (mm)	Code	Weight (kg)	Suitable for
225	**790 180 066**	0.355	IR-225 M, IR-225 Plus, IR-315 A
250	**790 134 151**	0.447	IR-315 A
280	**790 134 152**	0.613	IR-315 A
315	**790 134 153**	0.760	IR-315 A
355	**790 134 377**	0.810	IR-400 A
400	**790 134 378**	0.950	IR-400 A



Set of facing knives IR-63 M & IR-63 Plus

- A set includes two facing knives and six screws. Each facing knife has four blades. In case of a blunt blade the facing knife may be turned three times before it must be replaced

Suitable for	Code	Weight (kg)
d20-63 mm	**790 180 018**	0.016



Torx bolt tool T10

- For changing and turning the facing knives

Code	Weight (kg)
790 180 077	0.029



Outer clamping units IR-63 M

- Moveable clamping unit for fixing the components
- Angle markings enable a precise and fast installation
- Dimension d63mm integrated in clamping unit

Description	Suitable for	Code	Weight (kg)
Right clamping unit	d20-63 mm	**790 180 075**	0.916
Left clamping unit	d20-63 mm	**790 180 076**	0.916



Extension cable for clamping slide IR-63 M

- 6 Meter (19 ft) extension cable for clamping slide

Suitable for	Code	Weight (kg)
d20-63 mm	**790 180 014**	0.700



Extension cable for heater IR-63 M

- 6 Meter (19 ft) extension cable for heater

Suitable for	Code	Weight (kg)
d20-63 mm	**790 180 016**	0.767



Power supply cable 230 V
IR-63 M, IR-63/110 Plus, IR-110 A & BCF Plus

Code	Weight (kg)
790 180 017	0.150



Brush IR-63 M & IR-63 Plus

Code	Weight (kg)
790 180 080	0.013



Allen key 4mm

- For setting the overlap and to loosen the clamping slide

Code	Weight (kg)
790 180 078	0.029



Extension cable for facer IR-63 M

- 6 Meter (19 ft) extension cable for facer

Suitable for	Code	Weight (kg)
d20-63 mm	**790 180 015**	0.438



Clamping inserts IR-63 Plus / BCF Plus

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.
- IR weldable materials: PVDF, ECTFE, PP-H, PP-n, PE100
- BCF weldable materials: PVDF, PP-n

d (mm)	Code	Weight (kg)
20	**790 131 038**	0.140
25	**790 131 039**	0.090
32	**790 131 040**	0.052
40	**790 131 041**	0.074
50	**790 131 042**	0.100
63	**790 131 043**	0.035



Clamping inserts IR-63 Plus PVC-U metric

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.
- 4x PVC-U metric clamping inserts are needed for the two inner clamping units.
- **The clamping inserts can only be used for PVC-U metric**

d (mm)	Code	Weight (kg)
20	**790 131 071**	0.062
25	**790 131 072**	0.058
32	**790 131 073**	0.055
40	**790 131 074**	0.054
50	**790 131 075**	0.050
63	**790 131 076**	0.034



Clamping inserts IR-63 Plus CONTAIN-IT Plus

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.
- 4x CONTAIN-IT Plus clamping inserts are needed for the two inner clamping devices.
- IR weldable materials: PVDF, ECTFE, PP-H, PP-n, PE100

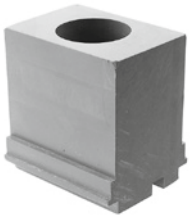
d (mm)	D (mm)	Code	Weight (kg)
20	50	**790 131 090**	0.060
25	50	**790 131 091**	0.060
32	63	**790 131 092**	0.060
40	75	**790 131 093**	0.050



Clamping inserts IR-63 Plus PFA Sch. 40 rigid pipe

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.
- For PFA Schedule 40 rigid pipe

d (inch)	Code	Weight (kg)
¼	**790 131 446**	0.057
½	**790 131 447**	0.055
¾	**790 131 448**	0.053
1	**790 131 449**	0.051
1 ½	**790 131 452**	0.043
2	**790 131 450**	0.041



Pipe stop IR-63 Plus

- The pipe stop defines the allowance when the pipes are clamped into position.

Code	Weight (kg)
790 131 046	0.430



Heater protection shield IR-63 Plus

- Protects the heater from plastic chips during the facing process.

Code	Weight (kg)	Pieces
790 131 051	0.205	1



Set of facing knives IR-63 Plus

- A set includes two facing knives and six screws. Each facing knife has four blades. In case of a blunt blade the facing knife may be turned three times before it must be replaced.

Code	Weight (kg)
790 131 045	0.016



Set of end caps IR

- A set includes 4 end caps. The end caps are different for each dimension. The ends of the pipe **must** be closed. The caps prevent heat loss due to airflow in the fusion zone and guarantee optimum fusion results of the pipe components.

d (mm)	Code	Weight (kg)	Suitable for
20	**790 180 052**	0.007	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
25	**790 180 053**	0.008	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
32	**790 180 054**	0.014	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
40	**790 180 055**	0.020	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
50	**790 180 056**	0.016	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
63	**790 180 057**	0.020	IR-63 M, IR-63 Plus, IR-225 M, IR-110 Plus, IR-225 Plus, IR-110 A

table continued on the next page

d (mm)	Code	Weight (kg)	Suitable for
75	**790 180 058**	0.034	IR-110 Plus, IR-110 A, IR-225 M
90	**790 180 059**	0.052	IR-225 M, IR-110 Plus, IR-225 Plus, IR-110 A
110	**790 180 060**	0.078	IR-225 M, IR-110 Plus, IR-225 Plus, IR-110 A, IR-315 A
125	**790 180 061**	0.139	IR-225 M, IR-225 Plus, IR-315 A
140	**790 180 062**	0.144	IR-225 M, IR-225 Plus, IR-315 A
160	**790 180 063**	0.204	IR-225 M, IR-225 Plus, IR-315 A
180	**790 180 064**	0.219	IR-225 M, IR-225 Plus, IR-315 A
200	**790 180 065**	0.305	IR-225 M, IR-225 Plus, IR-315 A
225	**790 180 066**	0.355	IR-225 M, IR-225 Plus, IR-315 A
250	**790 134 151**	0.447	IR-315 A
280	**790 134 152**	0.613	IR-315 A
315	**790 134 153**	0.760	IR-315 A
355	**790 134 377**	0.810	IR-400 A
400	**790 134 378**	0.950	IR-400 A



Torx bolt tool T10

- For changing and turning the facing knives

Code	Weight (kg)
790 180 077	0.029



Extension cable for clamping slide IR-63 Plus

- 6 Meter (19 ft) extension cable for clamping slide

Code	Weight (kg)
790 131 047	0.700



Extension cable for facing tool IR-63 Plus

- 6 Meter (19 ft) extension cable for facing tool

Code	Weight (kg)
790 131 048	0.438



Extension cable for heater IR-63 Plus

- 6 Meter (19 ft) extension cable for heater

Code	Weight (kg)
790 131 049	0.767

Clamping inserts d63-90mm, IR-110 Plus/A



- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.
- IR weldable materials: PVDF, ECTFE, PP-H, PP-n, PE100
- **Not compatible with PVC-U metric** (special clamping inserts needed)

d (mm)	Code	Weight (kg)
63	**790 132 156**	0.085
75	**790 132 157**	0.087
90	**790 132 158**	0.064

CONTAIN-IT Plus Clamping inserts IR-110 Plus



- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.
- 4x CONTAIN-IT Plus clamping inserts are needed for the two inner clamping devices.
- IR weldable materials: PVDF, ECTFE, PP-H, PP-n, PE100

d (mm)	D (mm)	Code	Weight (kg)
20	50	**790 132 190**	0.100
25	50	**790 132 191**	0.130
32	63	**790 132 192**	0.120
40	75	**790 132 193**	0.120
50	90	**790 132 194**	0.110

Set of end caps IR-Plus/A



- A set includes 4 end caps. The end caps are different for each dimension. The ends of the pipe **must** be closed. The caps prevent heat loss due to airflow in the fusion zone and guarantee optimum fusion results of the pipe components.

d (mm)	Code	Weight (kg)	Suitable for
20	**790 131 030**	0.040	IR-63 Plus, IR-110 Plus, IR-110 A
25	**790 131 031**	0.010	IR-63 Plus, IR-110 Plus, IR-110 A
32	**790 131 032**	0.088	IR-63 Plus, IR-110 Plus, IR-110 A
40	**790 131 033**	0.005	IR-63 Plus, IR-110 Plus, IR-110 A
50	**790 131 034**	0.005	IR-63 Plus, IR-110 Plus, IR-110 A
63	**790 131 035**	0.023	IR-63 Plus, IR-110 Plus, IR-225 Plus, IR-110 A
75	**790 133 036**	0.095	IR-110 Plus, IR-225 Plus, IR-110 A
90	**790 133 037**	0.028	IR-110 Plus, IR-225 Plus, IR-110 A
110	**790 133 038**	0.180	IR-110 Plus, IR-225 Plus, IR-110 A, IR-315 A
125	**790 133 039**	0.150	IR-225 Plus, IR-315 A
140	**790 133 040**	0.180	IR-225 Plus, IR-315 A
160	**790 133 041**	0.045	IR-225 Plus, IR-315 A
180	**790 133 494**	0.400	IR-225 Plus, IR-315 A
200	**790 133 042**	0.080	IR-225 Plus, IR-315 A
225	**790 133 043**	0.400	IR-225 Plus, IR-315 A

Clamping inserts IR-110 Plus PFA Sch. 40 rigid pipe



- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.
- For PFA Schedule 40 rigid pipe

d (inch)	Code	Weight (kg)
¼	**790 132 062**	0.109
½	**790 132 063**	0.107
¾	**790 132 064**	0.106
1	**790 132 065**	0.103
1 ½	**790 132 067**	0.096
2	**790 132 066**	0.088

Set of end caps IR



- A set includes 4 end caps. The end caps are different for each dimension. The ends of the pipe **must** be closed. The caps prevent heat loss due to airflow in the fusion zone and guarantee optimum fusion results of the pipe components.

d (mm)	Code	Weight (kg)	Suitable for
20	**790 180 052**	0.007	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
25	**790 180 053**	0.008	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
32	**790 180 054**	0.014	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
40	**790 180 055**	0.020	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
50	**790 180 056**	0.016	IR-63 M, IR-63 Plus, IR-110 Plus, IR-110 A
63	**790 180 057**	0.020	IR-63 M, IR-63 Plus, IR-225 M, IR-110 Plus, IR-225 Plus, IR-110 A
75	**790 180 058**	0.034	IR-110 Plus, IR-110 A, IR-225 M
90	**790 180 059**	0.052	IR-225 M, IR-110 Plus, IR-225 Plus, IR-110 A
110	**790 180 060**	0.078	IR-225 M, IR-110 Plus, IR-225 Plus, IR-110 A, IR-315 A
125	**790 180 061**	0.139	IR-225 M, IR-225 Plus, IR-315 A
140	**790 180 062**	0.144	IR-225 M, IR-225 Plus, IR-315 A
160	**790 180 063**	0.204	IR-225 M, IR-225 Plus, IR-315 A
180	**790 180 064**	0.219	IR-225 M, IR-225 Plus, IR-315 A
200	**790 180 065**	0.305	IR-225 M, IR-225 Plus, IR-315 A
225	**790 180 066**	0.355	IR-225 M, IR-225 Plus, IR-315 A
250	**790 134 151**	0.447	IR-315 A
280	**790 134 152**	0.613	IR-315 A
315	**790 134 153**	0.760	IR-315 A
355	**790 134 377**	0.810	IR-400 A
400	**790 134 378**	0.950	IR-400 A

Pipe stop IR-110 Plus



- The pipe stop defines the allowance when the pipes are clamped into position.

Suitable for	Code	Weight (kg)
d20- 110 mm	**790 132 059**	0.700



Set of facing knives IR-110 Plus, IR-110 A

- A set includes two facing knives and six screws. Each facing knife has four blades. In case of a blunt blade the facing knife may be turned three times before it must be replaced

d-d (mm)	Code	Pieces



Cleaning brush IR-110/225/315 Plus, IR-110/315 A

Code	Weight (kg)
790 041 017	0.013



Set of inner clamping units IR-110 Plus

- The set includes the following parts:
  - 2x upper clamping units (right / left)
  - 2x fixing screws

Note:
All existing half-shells for IR-110 Plus machines can be used with the new inner clamping units.

Suitable for	Code	Weight (kg)	Pieces
d20- 110 mm	**790 132 270**	0.228	2



Clamping inserts IR-225 Plus

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.
- IR weldable materials: PVDF, ECTFE, PP-H, PP-n, PE100

d (mm)	Code	Weight (kg)
63	**790 133 026**	0.700
75	**790 133 027**	0.400
90	**790 133 028**	0.691
110	**790 133 029**	0.644
125	**790 133 030**	0.500
140	**790 133 031**	0.600
160	**790 133 032**	0.600
180	**790 133 463**	0.560
200	**790 133 033**	0.700
225	**790 133 034**	0.270



CONTAIN-IT Plus Clamping inserts IR-225 Plus

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.
- 4x CONTAIN-IT Plus clamping inserts are needed for the two inner clamping devices.
- IR weldable materials: PVDF, ECTFE, PP-H, PP-n, PE100

d (mm)	D (mm)	Code	Weight (kg)
63	110	**790 133 090**	0.730
75	125	**790 133 091**	0.700
90	140	**790 133 092**	0.600
110	160	**790 133 093**	0.620
125	180	**790 133 094**	0.580



Pipe stop IR-225 Plus

- The pipe stop defines the allowance when the pipes are clamped into position.

Code	Weight (kg)	Pieces
790 133 047	0.150	1



Set of facing knives IR-225/315 Plus

- A set includes two facing knives and six screws. Each facing knife has four blades. In case of a blunt blade the facing knife may be turned three times before it must be replaced

Suitable for	Code	Weight (kg)	Pieces
d63 - 225 mm	**790 133 046**	0.125	2



Torx key T25 with T-bar handle IR-225/315 Plus, IR-315 A

- For facing knives

Code	Weight (kg)
790 133 577	0.063



Cleaning brush IR-110/225/315 Plus, IR-110/315 A

Code	Weight (kg)
790 133 198	0.055

Clamping inserts d20-50mm, IR-110 A



- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.
- IR weldable materials: PVDF, ECTFE, PP-H, PP-n, PE100
- **Not compatible with PVC-U metric** (special clamping inserts needed)

d (mm)	Code	Weight (kg)
20	**790 164 022**	0.099
25	**790 164 023**	0.097
32	**790 164 024**	0.093
40	**790 164 025**	0.088
50	**790 164 026**	0.081

Clamping inserts IR-110 A PVC-U metric



- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.
- 4x PVC-U metric clamping inserts are needed for the two inner clamping devices.
- **The clamping inserts can only be used for PVC-U metric**

d (mm)	Code	Weight (kg)
20	**790 132 161**	0.108
25	**790 132 162**	0.105
32	**790 132 163**	0.104
40	**790 132 164**	0.100
50	**790 132 165**	0.096
63	**790 132 166**	0.085

Set of inner clamping units IR-110 A



- The set includes the following parts:
  - 2x upper clamping units (right / left)
  - 2x fixing screws

Note:
All existing half-shells for IR-110 A machines can be used with the new inner clamping units.

Suitable for	Code	Weight (kg)	Pieces
d20- 110 mm	**790 164 270**	0.228	2

Clamping inserts IR-315 A



- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.

d (mm)	Code	Weight (kg)
110	**790 165 010**	1.500
125	**790 165 011**	1.400
140	**790 165 012**	1.300
160	**790 165 013**	1.300
180	**790 165 014**	1.200

table continued on the next page

d (mm)	Code	Weight (kg)
200	**790 165 015**	1.100
225	**790 165 016**	1.000
250	**790 165 017**	0.900
280	**790 165 018**	0.700



Set of facing knives IR-315/400 A

- A set includes two facing knives and six screws. Each facing knife has four blades. In case of a blunt blade the facing knife may be turned three times before it must be replaced

Suitable for	Code	Weight (kg)	Pieces
d110 - 315 mm	**790 165 549**	0.100	2



Clamping inserts IR-400 A

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.

d (mm)	Code	Weight (kg)
355	**790 166 010**	2.651
400	**790 166 011**	1.722



Set of end caps

- A set includes 4 end caps. The end caps are different for each dimension. The ends of the pipe **must** be closed. The caps prevent heat loss due to airflow in the fusion zone and guarantee optimum fusion results of the pipe components.

d (mm)	Code	Pieces



Set of facing knives IR-315/400 A

- A set includes two facing knives and ten screws. Each facing knife has four blades. In case of a blunt blade the facing knife may be turned three times before it must be replaced.

d-d (mm)	Code	Weight (kg)	Pieces
110 - 315	**790 165 549**	0.100	2



WBI-225 Tool

- Weld bead inspection of PVDF SYGEF (Standard/Plus), ECTFE SYGEF, PP-H PROGEF (Standard/Plus), PE100 ecoFIT
- Dimensions d20-d225 mm
- Clamping units d20-d225 mm
- Tablet with accessories
- Label printer Brother PT-P900Wc (including blue ribbon 24mm)

Suitable for	Code	Weight (kg)
d20 - d225	**790 170 002**	22



Clamping units WBI Tool

- The clamping units are different for each dimension. They are used to clamp and position the WBI Tool to the pipe components
- The clamping units d20-d63 mm are only compatible with the WBI-63 Tool
- The clamping units d75-d225 mm are only compatible with the WBI-225 Tool

d (mm)	Code	Weight (kg)
20	**790 170 221**	0.018
25	**790 170 222**	0.020
32	**790 170 223**	0.022
40	**790 170 224**	0.023
50	**790 170 225**	0.029
63	**790 170 226**	0.030
75	**790 170 227**	0.063
90	**790 170 228**	0.065
110	**790 170 229**	0.072
125	**790 170 230**	0.000
140	**790 170 231**	0.121
160	**790 170 232**	0.141
180	**790 170 233**	0.150
200	**790 170 234**	0.151
225	**790 170 235**	0.167



Ribbon blue label WBI Tool

- Only use for WBI Tool

Description	Code	Weight (kg)
Ribbon blue label 24 mm Brother TZe-551	**790 170 315**	0.100



Heating stations BCF Plus

d (mm)	Code	Weight (kg)
20	**790 121 111**	1.818
25	**790 121 112**	1.822
32	**790 121 113**	1.910
40	**790 121 114**	2.396
50	**790 121 115**	2.406
63	**790 121 116**	2.197
75	**790 121 117**	3.600
90	**790 121 118**	3.600
110	**790 121 119**	3.520



Bladder BCF Plus for SYGEF PVDF

- d20-d63: Only suitable for welding SYGEF PVDF. **Silver bladder head!**
- d75-110: Suitable for welding SYGEF PVDF and PROGEF Natural PP-n. **Silver bladder head!**

d (mm)	Code	Weight (kg)	Pieces
20	**790 122 041**	0.014	1
25	**790 122 042**	0.020	1
32	**790 122 043**	0.037	1
40	**790 122 044**	0.078	1
50	**790 122 045**	0.132	1
63	**790 122 046**	0.138	1



Bladder BCF Plus for PROGEF Natural PP-n

- d20-63: Only suitable for welding PROGEF Natural PP-n. **Blue bladder head!**
- d75-110: Suitable for welding PROGEF Natural PP-n and SYGEF PVDF. **Silver bladder head!**

d (mm)	Code	Weight (kg)	Pieces
20	**790 122 091**	0.038	1
25	**790 122 092**	0.021	1
32	**790 122 093**	0.040	1
40	**790 122 094**	0.050	1
50	**790 122 095**	0.105	1
63	**790 122 096**	0.138	1
75	**790 121 047**	0.203	1
90	**790 121 048**	0.265	1
110	**790 121 049**	0.552	1



Supporting tool BCF Plus

- Helpful to fix 45°- angle components.

Suitable for	Code	Weight (kg)
d20 - d63	**790 121 072**	0.542
d75 - d110	**790 121 073**	0.900



Clamping units BCF Plus

- The clamping units are adjustable, so that all types of pipes and fittings can be clamped.

Suitable for	Code	Weight (kg)
d20 - d63	**790 121 034**	0.600
d75 - d110	**790 121 035**	0.900



Clamping inserts BCF Plus

- The clamping inserts are suitable for the clamping units of the BCF Plus machine. They are used to clamp the piping components.
- **No** clamping inserts are needed for **d 110 mm**!

d (mm)	Code	Weight (kg)
75	**790 121 036**	0.143
90	**790 121 037**	0.095



Adapter for clamping unit BCF Plus d 75-110 mm

- The adapter makes it possible, to insert clamping inserts with d 20-63 mm in clamping units with d 75-110 mm to be able to clamp pipes and fittings with d 20-63 mm with these clamping units.

Code	Weight (kg)
790 121 038	0.250



Facing tool BCF Plus

- Inclusive crank handle, mounting material and clamping inserts. Suitable for SYGEF PVDF as well as for PROGEF Natural PP-n.

Suitable for	Code	Weight (kg)
d20 - d63	**790 121 052**	2.339
d75 - d110	**790 121 053**	3.000



Clamping inserts for the facing tool BCF Plus

- These dimension-specific parts are inserted into the facing tool, in order to be able to face the end of the pipes smoothly and parallel.

d (mm)	Code	Weight (kg)
20	**790 121 061**	0.160
25	**790 121 062**	0.146
32	**790 121 063**	0.135
40	**790 121 064**	0.125
50	**790 121 065**	0.100
63	**790 121 066**	0.050
75	**790 121 067**	0.300
90	**790 121 068**	0.200
110	**790 121 069**	0.090



Facing tool mounting plate BCF Plus

- To fix the facing tool on the workbench.

Suitable for	Code	Weight (kg)
d20-110 mm	**790 121 055**	1.200



Hose BCF Plus

- Connection hose for the BCF Plus bladder.
- Length: 16m

d (mm)	Code	Weight (kg)
4	**790 122 087**	0.121



Hose box incl. hose BCF Plus

- For the clean and professional storage of the air hose.
- Length: 16m

d (mm)	Code	Weight (kg)
4	**790 121 151**	1.114

Large Dimension Package BCF Plus d75-110mm

- This package is necessary to complete BCF Plus machines which are only equipped for small dimensions d 20-63 mm.
- **Delivery includes:**
- Facing tool d 75-110 mm with facing inserts d 75-110 mm (3 pcs.)
- Supporting tools d 75-110 mm (2 pcs.)
- Clamping units d75-110 mm (2 pcs.) with clamping inserts d75-110 mm (8 pcs.)
- Adapter for clamping unit d 75-110 mm (2 pcs.)

Note:

Heating stations not included

d-d (mm)	Code	Weight (kg)
75 - 110	**790 121 022**	8.000



Heating stations BCF Plus

d (mm)	Code	Weight (kg)
20	**790 121 111**	1.818
25	**790 121 112**	1.822
32	**790 121 113**	1.910
40	**790 121 114**	2.396
50	**790 121 115**	2.406
63	**790 121 116**	2.197
75	**790 121 117**	3.600
90	**790 121 118**	3.600
110	**790 121 119**	3.520



Bladder BCF Plus for SYGEF PVDF

- d20-d63: Only suitable for welding SYGEF PVDF. **Silver bladder head!**
- d75-110: Suitable for welding SYGEF PVDF and PROGEF Natural PP-n. **Silver bladder head!**

d (mm)	Code	Weight (kg)	Pieces
20	**790 122 041**	0.014	1
25	**790 122 042**	0.020	1
32	**790 122 043**	0.037	1
40	**790 122 044**	0.078	1
50	**790 122 045**	0.132	1
63	**790 122 046**	0.138	1



Bladder BCF Plus for PROGEF Natural PP-n

- d20-63: Only suitable for welding PROGEF Natural PP-n. **Blue bladder head!**
- d75-110: Suitable for welding PROGEF Natural PP-n and SYGEF PVDF. **Silver bladder head!**

d (mm)	Code	Weight (kg)	Pieces
20	**790 122 091**	0.038	1
25	**790 122 092**	0.021	1
32	**790 122 093**	0.040	1
40	**790 122 094**	0.050	1
50	**790 122 095**	0.105	1
63	**790 122 096**	0.138	1
75	**790 121 047**	0.203	1
90	**790 121 048**	0.265	1
110	**790 121 049**	0.552	1



Bladder/hose remove tool (BReT) BCF Plus

- Helpful to remove bladders easily.

Code	Weight (kg)
790 121 075	0.079



Supporting tool BCF Plus

- Helpful to fix 45°- angle components.

Suitable for	Code	Weight (kg)
d20 - d63	**790 121 072**	0.542
d75 - d110	**790 121 073**	0.900



Clamping units BCF Plus

- The clamping units are adjustable, so that all types of pipes and fittings can be clamped.

Suitable for	Code	Weight (kg)
d20 - d63	**790 121 034**	0.600
d75 - d110	**790 121 035**	0.900



Supporting tool BCF Plus

- Helpful to fix 45°- angle components.

Suitable for	Code	Weight (kg)
d20 - d63	**790 121 072**	0.542
d75 - d110	**790 121 073**	0.900



Facing tool mounting plate BCF Plus

- To fix the facing tool on the workbench.

Suitable for	Code	Weight (kg)
d20-110 mm	**790 121 055**	1.200



Hose BCF Plus

- Connection hose for the BCF Plus bladder.
- Length: 16m

d (mm)	Code	Weight (kg)
4	**790 122 087**	0.121



Hose box incl. hose BCF Plus

- For the clean and professional storage of the air hose.
- Length: 16m

d (mm)	Code	Weight (kg)
4	**790 121 151**	1.114



Socket for compressed air hose BCF Plus

d (mm)	Code	Weight (kg)
4	**790 122 104**	0.002



Hose cutter BCF Plus

Suitable for	Code	Weight (kg)
d4 - d6	**790 122 106**	0.031



Extension cable BCF Plus

- 8 Meter (26 ft) extension cable for clamping slide

Code	Weight (kg)
790 122 989	1.000



Label printer Brother PT-P900Wc

- For IR / BCF fusion machines and WBI-Tool
- Label 36 mm included
- Order Label 24 mm separately

Description	Code	Weight (kg)
Label printer Brother PT-P900Wc	**790 180 081**	2.470
Ribbon white label 24 mm Brother TZe-251	**790 180 082**	0.100



Tangit KS Cleaner

- Special cleaner for plastic fusion connections in the material of PE, PP, PB, PVDF, ECTFE and PVC-U
- Suitable for Tangit Rapid. Must not be used for solvent cementing
- DVGW approved
- DW 5290 BR 0464

Size	Code	Weight (kg)
1 liter	**799 298 023**	0.872



Cleaning tissue KO-TON-R

Minimum order quantity 100 pieces

- This cleaning tissue is suitable for the cleaning of the welding zone of piping components, because it is lint free and clean room checked.

Code	Weight (kg)
790 122 085	0.005



USB Stick IR Plus

- Formatted USB Stick to extract fusion protocols from IR-Plus machines and upload to "CONNECT Welding"

Code	Weight (kg)
790 180 083	0.050



IR-Plus Win Weld

- The PC data transfer software makes it possible to read the recorded fusion data from the USB stick (max. 2 GB) on the PC
- Incl. USB stick 2GB

Code	Weight (kg)
790 131 471	0.151



BCF Plus Win Weld

- The PC data transfer software makes it possible to read the recorded fusion data from the USB stick (max. 2 GB) on the PC
- Incl. USB stick 2GB

Suitable for	Code	Weight (kg)
d20- 110 mm	**790 121 471**	0.080

Spare parts

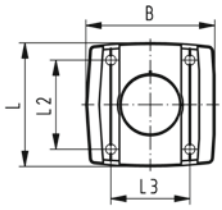
Connecting parts and subassembly type 546 and 543

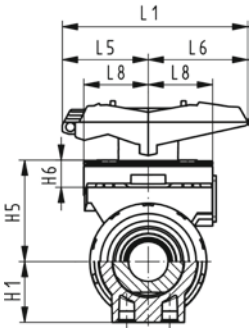
Multifunctional modules



DN10/15 - 50







Multifunctional module (I02) PP-GF
Module empty

Model:

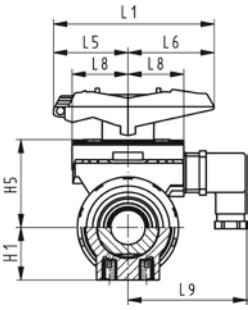
- Accessory to ball valve type 546
- Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100
- The multifunctional module from d75 - d110 has a master gauge F07 according to EN ISO 5211.

d-d (mm)	Inch (inch)	DN-DN (mm)	Code	Weight (kg)
16 - 20	⅜ - ½	10 - 15	**167 482 680**	0.069
25 - 32	¾ - 1	20 - 25	**167 482 681**	0.149
40 - 50	1 ¼ - 1 ½	32 - 40	**167 482 682**	0.168
63	2	50	**167 482 683**	0.209
75 - 90	2 ½ - 3	65 - 80	**167 482 684**	0.379
110	4	100	**167 482 685**	0.607

d-d (mm)	B (mm)	H1 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L5 (mm)	L6 (mm)	L8 (mm)
16 - 20	67	27	50	17	72	87	54	40	42	45	34
25 - 32	75	30	53	16	72	108	52	46	50	58	38
40 - 50	81	44	72	16	80	140	60	50	66	75	41
63	91	64	94	19	93	165	68	65	78	87	46
75 - 90	90	85	157	23	85	270			64	206	
110	106	123	175	23	97	320			64	256	







Multifunctional module (I03) PP-GF
With mechanical limit switches AgNi

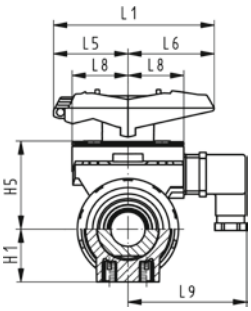
Model:

- Accessory to ball valve type 546
- Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including plug 3P+E / protection: IP65
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100
- Switch type Crouzet 83 181

DN-DN (mm)	d-d (mm)	Inch (inch)	Code	Weight (kg)	H1 (mm)	H5 (mm)	L1 (mm)	L5 (mm)	L6 (mm)	L8 (mm)	L9 (mm)
10 - 15	16 - 20	⅜ - ½	**167 482 626**	0.104	27	50	87	42	45	34	73
20 - 25	25 - 32	¾ - 1	**167 482 627**	0.118	30	53	108	50	58	38	77
32 - 40	40 - 50	1 ¼ - 1 ½	**167 482 628**	0.140	44	72	140	66	75	41	80
- - 50	- - 63	2	**167 482 629**	0.257	64	94	165	78	87	46	85
65 - 80	75 - 90	2 ½ - 3	**167 482 630**	0.478	85	157	270	64	206		
- - 100	- - 110	4	**167 482 631**	0.480	123	175	320	64	256		







Multifunctional module (I04) PP-GF
With mechanical limit switches Au

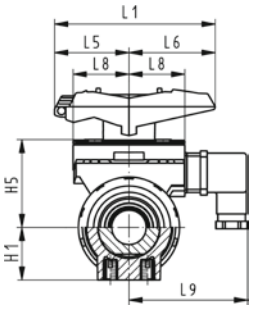
Model:

- Accessory to ball valve type 546
- Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including plug 3P+E / protection: IP65
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100
- Switch type Crouzet 83 181

DN-DN (mm)	d-d (mm)	Inch (inch)	Code	Weight (kg)	H1 (mm)	H5 (mm)	L1 (mm)	L5 (mm)	L6 (mm)	L8 (mm)	L9 (mm)
10 - 15	16 - 20	⅜ - ½	**167 482 635**	0.103	27	50	87	42	45	34	73
20 - 25	25 - 32	¾ - 1	**167 482 636**	0.120	30	53	108	50	58	38	77
32 - 40	40 - 50	1 ¼ - 1 ½	**167 482 637**	0.138	44	72	140	66	75	41	80
- - 50	- - 63	2	**167 482 638**	0.175	64	94	165	78	87	46	85
65 - 80	75 - 90	2 ½ - 3	**167 482 639**	0.460	85	157	270	64	206		
- - 100	- - 110	4	**167 482 640**	0.480	123	175	320	64	256		







Multifunctional module (I05) PP-GF
With inductive limit switches Namur

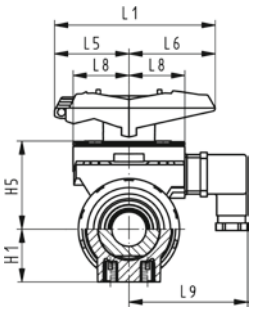
Model:

- Accessory to ball valve type 546
- Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including plug 3P+E / protection: IP65
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100
- Switch type Pepperl+Fuchs NJ1.5-F-N

DN-DN (mm)	d-d (mm)	Inch (inch)	Code	Weight (kg)	H1 (mm)	H5 (mm)	L1 (mm)	L5 (mm)	L6 (mm)	L8 (mm)	L9 (mm)
10 - 15	16 - 20	⅜ - ½	**167 482 671**	0.097	27	50	87	42	45	34	73
20 - 25	25 - 32	¾ - 1	**167 482 672**	0.107	30	53	108	50	58	38	77
32 - 40	40 - 50	1 ¼ - 1 ½	**167 482 673**	0.135	44	72	140	66	75	41	80
- - 50	- - 63	2	**167 482 674**	0.257	64	94	165	78	87	46	85
65 - 80	75 - 90	2 ½ - 3	**167 482 675**	0.460	85	157	270	64	206		
- - 100	- - 110	4	**167 482 676**	0.480	123	175	320	64	256		







Multifunctional module (I06) PP-GF
With inductive limit switches PNP

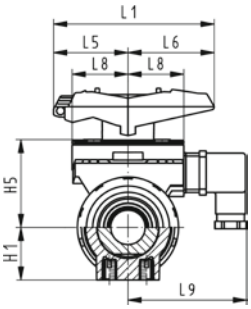
Model:

- Accessory to ball valve type 546
- Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including plug 3P+E / protection: IP65
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100
- Switch type Pepperl+Fuchs NBB1.5-F79-E2

DN-DN (mm)	d-d (mm)	Inch (inch)	Code	Weight (kg)	H1 (mm)	H5 (mm)	L1 (mm)	L5 (mm)	L6 (mm)	L8 (mm)	L9 (mm)
10 - 15	16 - 20	⅜ - ½	**167 482 662**	0.182	27	50	87	42	45	34	73
20 - 25	25 - 32	¾ - 1	**167 482 663**	0.197	30	53	108	50	58	38	77
32 - 40	40 - 50	1 ¼ - 1 ½	**167 482 664**	0.215	44	72	140	66	75	41	80
- - 50	- - 63	2	**167 482 665**	0.175	64	94	165	78	87	46	85
65 - 80	75 - 90	2 ½ - 3	**167 482 666**	0.460	85	157	270	64	206		
- - 100	- - 110	4	**167 482 667**	0.480	123	175	320	64	256		







Multifunctional module (I07) PP-GF
With inductive limit switches NPN

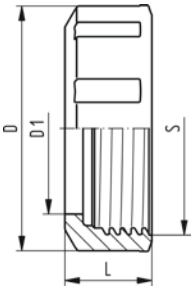
Model:

- Accessory to ball valve type 546
- Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including plug 3P+E / protection: IP65
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100
- Switch type Pepperl+Fuchs NBB1.5-F79-E1

DN-DN (mm)	d-d (mm)	Inch (inch)	Code	Weight (kg)	H1 (mm)	H5 (mm)	L1 (mm)	L5 (mm)	L6 (mm)	L8 (mm)	L9 (mm)
10 - 15	16 - 20	⅜ - ½	**167 482 653**	0.110	27	50	87	42	45	34	73
20 - 25	25 - 32	¾ - 1	**167 482 654**	0.120	30	53	108	50	58	38	77
32 - 40	40 - 50	1 ¼ - 1 ½	**167 482 655**	0.135	44	72	140	66	75	41	80
- - 50	- - 63	2	**167 482 656**	0.175	64	94	165	78	87	46	85
65 - 80	75 - 90	2 ½ - 3	**167 482 657**	0.460	85	157	270	64	206		
- - 100	- - 110	4	**167 482 658**	0.480	123	175	320	64	256		

Union nuts





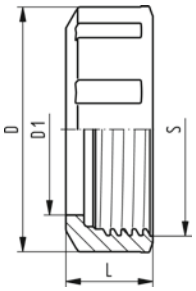
PROGEF Standard
Union nut 546 Pro and 543 Pro

Model:

- Material: PP-H

d (mm)	DN (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	S (mm)
16 - 20	10 - 15	**167 482 712**	0.014	50	34	19	42
25	20	**167 482 713**	0.018	58	39	20	48
32	25	**167 482 714**	0.030	68	47	24	58
40	32	**167 482 715**	0.054	84	57	27	71
50	40	**167 482 716**	0.076	97	65	30	84
63	50	**167 482 717**	0.151	124	79	36	106
75	65	**167 482 718**	0.463	166	94	48	135
90	80	**167 482 719**	0.728	200	113	54	135
110	100	**167 482 720**	1.117	238	137	60	198

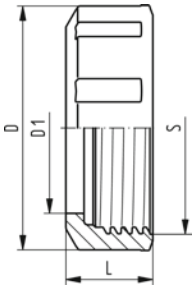




Union nut 546 Pro and 543 Pro PVC-U

d (mm)	DN (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	S (mm)	Closest inch (inch)
16 - 20	10 - 15	**161 490 538**	0.019	50	34	19	42	⅜ - ½
25	20	**161 490 539**	0.023	58	39	20	48	¾
32	25	**161 490 540**	0.041	68	47	24	58	1
40	32	**161 490 541**	0.066	84	57	27	71	1 ¼
50	40	**161 490 542**	0.092	97	65	30	84	1 ½
63	50	**161 490 543**	0.189	124	79	36	106	2
75	65	**161 490 544**	0.562	166	94	48	135	2 ½
90	80	**161 490 545**	0.882	200	113	54	135	3
110	100	**161 490 546**	1.355	238	137	60	198	4

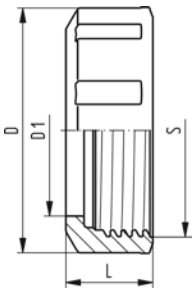




Union nut 546 Pro and 543 Pro ABS

d (mm)	DN (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	S (mm)
16 - 20	10 - 15	**169 480 713**	0.014	50	34	19	42
25	20	**169 480 714**	0.021	58	39	20	48
32	25	**169 480 715**	0.030	68	47	24	58
40	32	**169 480 716**	0.047	84	57	27	71
50	40	**169 480 717**	0.067	97	65	30	84
63	50	**169 480 718**	0.139	124	79	36	106
75	65	**169 480 719**	0.435	166	94	48	135
90	80	**169 480 720**	0.683	200	113	54	135
110	100	**169 480 721**	1.048	238	137	60	198





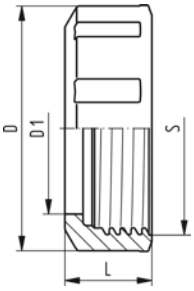
SYGEF Standard
Union nut 546 Pro and 543 Pro

Model:

- Material: PVDF

d (mm)	DN (mm)	Code	Weight (kg)	D (mm)	L (mm)	D1 (mm)	S (mm)
16 - 20	10 - 15	**175 482 937**	0.022	50	19	34	42
25	20	**175 482 938**	0.033	58	20	39	48
32	25	**175 482 939**	0.053	68	24	47	58
40	32	**175 482 940**	0.099	84	27	57	71
50	40	**175 482 941**	0.095	94	30	65	84
63	50	**175 482 942**	0.200	120	36	79	106
75	65	**175 482 943**	0.463	124	36	79	106
90	80	**175 482 944**	0.728	166	48	94	135
110	100	**175 482 945**	1.117	238	60	137	198

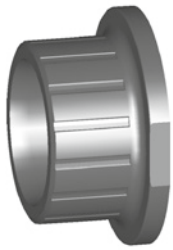


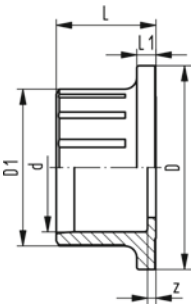


Union nut 546 Pro and 543 Pro PVC-C

d (mm)	DN (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	S (mm)	Closest inch (inch)
16 - 20	10 - 15	**163 481 226**	0.020	50	34	19	42	⅜ - ½
25	20	**163 481 227**	0.019	58	39	20	48	¾
32	25	**163 481 228**	0.041	68	47	24	58	1
40	32	**163 481 229**	0.054	84	57	27	71	1 ¼
50	40	**163 481 230**	0.099	97	65	30	84	1 ½
63	50	**163 481 231**	0.199	124	79	36	106	2
75	65	**163 481 232**	0.619	166	94	48	135	2 ½
90	80	**163 481 233**	0.973	200	113	54	135	3
110	100	**163 481 234**	1.493	238	137	60	198	4

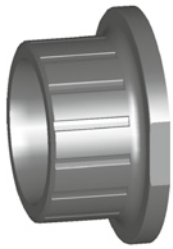
Valve ends ball valve type 546 and 543

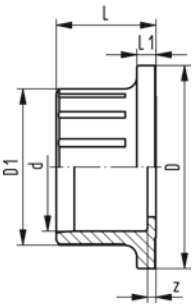




Valve end 546 Pro and 543 Pro PVC-U (G01)
With solvent cement socket metric

d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
16	16	**161 490 666**	0.011	38	23	18	4	4
20	16	**161 490 667**	0.009	38	27	20	4	4
25	16	**161 490 668**	0.012	44	33	23	5	4
32	16	**161 490 669**	0.024	53	41	26	5	4
40	16	**161 490 670**	0.042	65	51	31	5	5
50	16	**161 490 671**	0.065	77	62	34	6	3
63	16	**161 490 672**	0.118	99	77	41	7	3
75	16	**161 490 673**	0.224	125	92	49	9	4
90	16	**161 490 674**	0.377	150	110	57	10	5
110	16	**161 490 675**	0.639	180	134	69	11	5



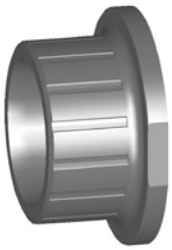


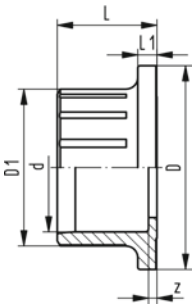
Valve end 546 Pro PVC-U
With solvent cement socket metric

Model:

- Valve end 546 Pro PVC-U to retrofit the ball valve 546 according the same z-dimension as for type 370 with nuts

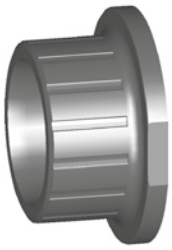
d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
75	16	**161 490 673**	0.224	125	92	49	9	4
90	16	**161 491 084**	0.399	150	110	64	10	12
110	16	**161 491 085**	0.695	180	134	80	11	16

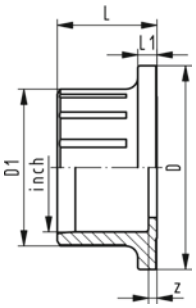




Valve end 546 Pro PVC-U (G02)
With solvent cement socket JIS

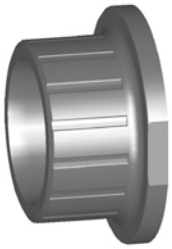
Size (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
½	16	**161 490 745**	0.009	38	27	20	4	4
¾	16	**161 490 746**	0.015	44	33	23	5	4
1	16	**161 490 747**	0.026	53	41	26	5	4
1 ¼	16	**161 490 748**	0.048	65	51	31	5	5
1 ½	16	**161 490 749**	0.072	77	62	34	6	3
2	16	**161 490 750**	0.137	99	77	41	7	3
2 ½	16	**161 490 751**	0.222	125	92	49	9	4
3	16	**161 490 752**	0.390	150	110	57	10	5
4	16	**161 490 753**	0.586	180	134	69	11	5

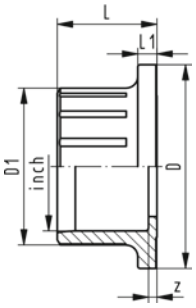




Valve end 546 Pro and 543 Pro PVC-U (G03)
With solvent cement socket Inch ASTM

Size (inch)	d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
⅜	16	16	**161 490 712**	0.012	38	24	25	4	6
½	20	16	**161 490 713**	0.014	38	30	25	4	2
¾	25	16	**161 490 714**	0.020	44	35	28	5	3
1	32	16	**161 490 715**	0.031	53	43	31	5	3
1 ¼	40	16	**161 490 716**	0.046	65	53	34	5	3
1 ½	50	16	**161 490 717**	0.066	77	60	38	6	3
2	63	16	**161 490 718**	0.112	99	73	41	7	3
2 ½	75	16	**161 490 719**	0.241	125	92	49	9	4
3	90	16	**161 490 720**	0.394	150	110	57	10	9
4	110	16	**161 490 721**	0.582	180	134	69	11	11

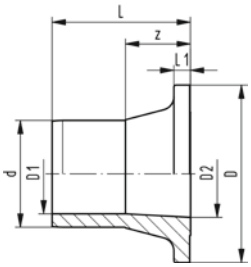




Valve end 546 Pro and 543 Pro PVC-U (G04)
With solvent cement socket Inch BS

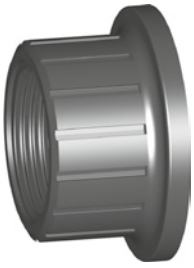
Size (inch)	d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
⅜	16	16	**161 490 734**	0.009	38	23	18	4	2
½	20	16	**161 490 735**	0.010	38	27	20	4	2
¾	25	16	**161 490 736**	0.013	44	33	23	5	2
1	32	16	**161 490 737**	0.021	53	41	26	5	2
1 ¼	40	16	**161 490 738**	0.036	65	51	31	5	2
1 ½	50	16	**161 490 739**	0.071	77	62	34	6	4
2	63	16	**161 490 740**	0.135	99	77	41	7	5
	75	16	**161 490 673**	0.224	125	92	49	9	4
3	90	16	**161 490 742**	0.393	150	110	57	10	6
4	110	16	**161 490 743**	0.577	180	134	69	11	5

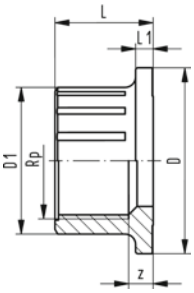




Valve end 546 Pro and 543 Pro PVC-U (G05)
With solvent cement spigot metric

d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	z (mm)
16	16	**161 490 701**	0.011	38	10	16	29	4	15
20	16	**161 490 702**	0.015	38	14	16	34	4	18
25	16	**161 490 703**	0.021	44	19	20	39	5	20
32	16	**161 490 704**	0.031	53	24	26	42	5	20
40	16	**161 490 705**	0.050	65	31	33	45	5	19
50	16	**161 490 706**	0.082	77	39	41	53	6	22
63	16	**161 490 707**	0.161	99	49	51	62	7	24
75	16	**161 490 708**	0.302	125	58	65	74	9	30
90	16	**161 490 709**	0.467	150	70	90	80	10	28
110	16	**161 490 710**	0.747	180	86	100	88	11	27





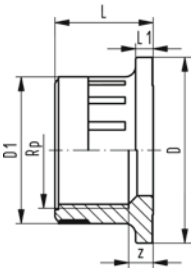
Valve end 546 Pro and 543 Pro PVC-U (G06)
With threaded socket Rp

Model:

- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U

Rp (inch)	PN (bar)	Code	Weight (kg)	z (mm)	D1 (mm)	D (mm)	L (mm)	L1 (mm)
⅜	10	**161 490 690**	0.011	7	24	38	20	4
½	10	**161 490 691**	0.013	6	28	38	22	4
¾	10	**161 490 692**	0.019	7	34	44	25	5
1	10	**161 490 693**	0.031	7	42	53	28	5
1 ¼	10	**161 490 694**	0.047	7	52	65	30	5
1 ½	10	**161 490 695**	0.074	9	63	77	32	6
2	10	**161 490 696**	0.129	10	78	99	38	7
2 ½	10	**161 490 697**	0.255	18	92	125	49	9
3	10	**161 490 698**	0.436	23	110	150	57	10
4	10	**161 490 699**	0.645	29	134	180	69	11



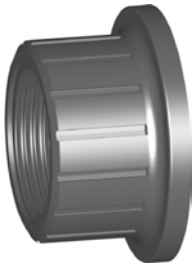


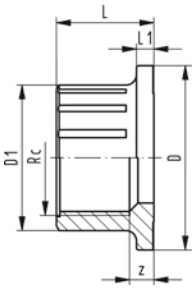
Valve end 546 Pro and 543 Pro PVC-U (G07)
With threaded socket Rp reinforced

Model:

- Connection to plastic or metal threads
- Reinforcing ring stainless (A2)
- Do not use thread sealing pastes that are harmful to PVC-U

Rp (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
⅜	16	**161 490 825**	0.013	38	24	20	4	7
½	16	**161 490 826**	0.016	38	28	22	4	6
¾	16	**161 490 827**	0.023	44	34	25	5	7
1	16	**161 490 828**	0.036	53	42	28	5	7
1 ¼	16	**161 490 829**	0.058	65	52	30	5	7
1 ½	16	**161 490 830**	0.084	77	63	32	6	9
2	16	**161 490 831**	0.166	99	78	38	7	10





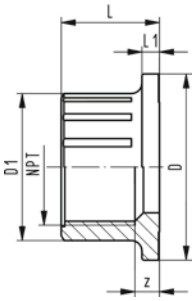
Valve end 546 Pro and 543 Pro PVC-U (G08)
With threaded socket Rc

Model:

- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U

PN (bar)	Rc (inch)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
10	½	**161 490 755**	0.013	38	28	22	4	5
10	¾	**161 490 756**	0.019	44	34	25	5	7
10	1	**161 490 757**	0.041	53	42	28	5	7
10	1 ¼	**161 490 758**	0.047	65	52	30	5	6
10	1 ½	**161 490 759**	0.081	77	63	32	6	8
10	2	**161 490 760**	0.145	99	78	38	7	9
10	2 ½	**161 490 761**	0.261	125	58	49	9	18
10	3	**161 490 762**	0.444	150	110	57	10	23
10	4	**161 490 763**	0.682	180	134	69	11	29



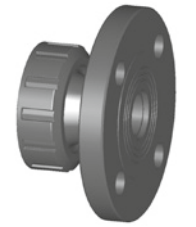


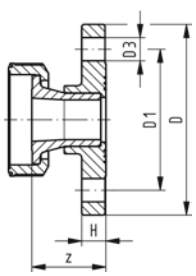
Valve end 546 Pro and 543 Pro PVC-U (G09)
With threaded socket NPT

Model:

- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U

NPT (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
⅜	10	**161 490 723**	0.014	38	26	21	4	7
½	10	**161 490 724**	0.017	38	33	21	4	4
¾	10	**161 490 725**	0.020	44	39	23	5	5
1	10	**161 490 726**	0.038	53	47	28	5	6
1 ¼	10	**161 490 727**	0.064	65	57	31	5	7
1 ½	10	**161 490 728**	0.087	77	65	34	6	11
2	10	**161 490 729**	0.146	99	77	41	7	17
2 ½	10	**161 490 730**	0.287	125	58	49	9	15
3	10	**161 490 731**	0.451	150	110	57	10	21
4	10	**161 490 732**	0.692	180	134	69	11	31



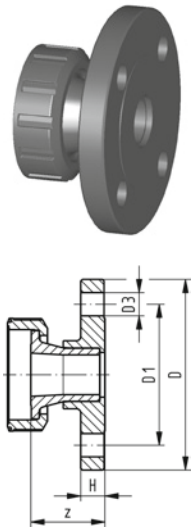


Valve end 546 Pro PVC-U (G60)
Assembly with fixed flange PVC-U metric

Model:

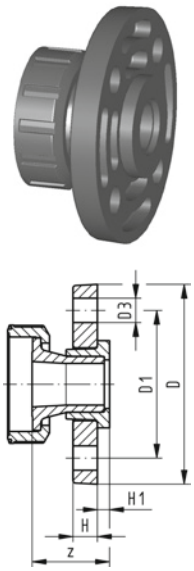
- Joint made with special adhesive Tangit for PVC-U
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504
- Combined jointing face: flat and serrated

d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	z (mm)
20	15	16	**161 486 360**	0.131	95	65	14	12	37
25	20	16	**161 486 361**	0.175	105	75	14	13	42
32	25	16	**161 486 362**	0.254	115	85	14	15	45
40	32	16	**161 486 363**	0.417	140	100	18	17	48
50	40	16	**161 486 364**	0.548	150	110	18	18	56
63	50	16	**161 486 365**	0.862	165	125	18	20	65



Valve end 546 Pro PVC-U (G62)
Assembly with fixed flange flat PVC-U Inch JIS

Size (inch)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	z (mm)
½	15	16	**161 486 350**	0.160	95	60	14	11	37
¾	20	16	**161 486 351**	0.190	105	70	14	12	42
1	25	16	**161 486 352**	0.300	115	79	14	14	45
1 ¼	32	16	**161 486 353**	0.440	140	89	18	15	48
1 ½	40	16	**161 486 354**	0.550	140	105	18	18	62
2	50	16	**161 486 355**	0.830	165	121	18	18	65

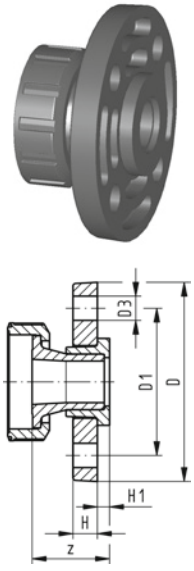


Valve end 546 Pro PVC-U (G70)
Assembly with backing flange PVC-U metric

Model:

- Joint made with special adhesive Tangit for PVC-U
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504

d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	z (mm)
20	15	16	**161 486 265**	0.110	95	65	14	11	6	37
25	20	16	**161 486 266**	0.155	105	75	14	12	7	42
32	25	16	**161 486 267**	0.230	115	85	14	14	7	45
40	32	16	**161 486 268**	0.360	140	100	18	15	8	48
50	40	16	**161 486 269**	0.500	150	110	18	16	8	56
63	50	16	**161 486 270**	0.770	165	125	18	18	9	65
75	65	10	**161 486 271**	1.429	185	145	18	19	10	77
90	80	10	**161 486 272**	2.109	200	160	18	20	11	85
110	100	10	**161 486 273**	3.067	220	180	18	22	12	93

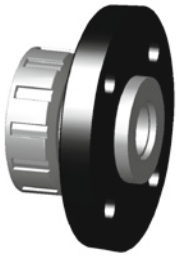


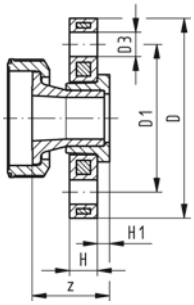
Valve end 546 Pro PVC-U (G71)
Assembly with backing flange PVC-U
Inch ANSI

Model:

- Joint made with special adhesive Tangit for PVC-U
- Connecting dimensions: ANSI/ASME B 16.5, ASTM D 4024, BS 1560 (bolt circle 150 lbs)

Size (inch)	d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	z (mm)
½	20	10	**161 486 275**	0.110	95	60	14	11	6	37
¾	25	10	**161 486 276**	0.150	105	70	14	12	7	42
1	32	10	**161 486 277**	0.220	115	79	14	14	7	45
1 ¼	40	10	**161 486 278**	0.375	140	89	18	15	8	48
1 ½	50	10	**161 486 279**	0.495	150	98	18	16	8	56
2	63	10	**161 486 280**	0.760	165	121	18	18	9	65
2 ½	75	10	**161 486 281**	1.429	185	140	19	19	10	77
3	90	10	**161 486 282**	3.136	200	152	19	20	11	85
4	110	10	**161 486 283**	4.214	220	190	19	22	12	93



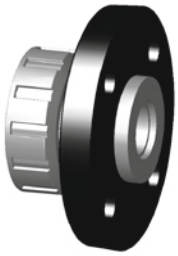


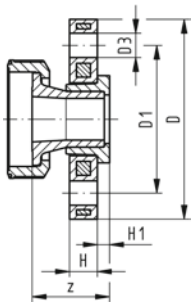
Valve end 546 Pro PVC-U (G72)
Assembly with backing flange PP-st metric

Model:

- Joint made with special adhesive Tangit for PVC-U
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504

d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	z (mm)
20	15	16	**161 486 285**	0.259	95	65	14	12	6	37
25	20	16	**161 486 286**	0.325	105	75	14	12	7	42
32	25	16	**161 486 287**	0.530	115	85	14	16	7	45
40	32	16	**161 486 288**	0.786	140	100	18	16	8	48
50	40	16	**161 486 289**	1.070	150	110	18	18	8	56
63	50	16	**161 486 290**	1.529	165	125	18	18	9	65
75	65	16	**161 486 291**	2.319	185	145	18	18	10	77
90	80	16	**161 486 292**	2.905	200	160	18	20	11	85
110	100	16	**161 486 293**	4.079	220	180	18	20	12	93





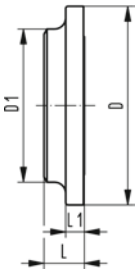
Valve end 546 Pro PVC-U (G73)
Assembly with backing flange PP-st inch

Model:

- Joint made with special adhesive Tangit for PVC-U
- Connecting dimensions: ANSI/ASME B 16.5, ASTM D 4024, BS 1560 (bolt circle 150 lbs)

Size (inch)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	z (mm)
½	15	16	**161 486 425**	0.250	95	60	16	12	6	37
¾	20	16	**161 486 426**	0.310	105	70	16	12	7	42
1	25	16	**161 486 427**	0.520	115	79	16	16	7	45
1 ¼	32	16	**161 486 428**	0.835	140	89	16	16	8	48
1 ½	40	16	**161 486 429**	1.110	150	98	16	18	8	56
2	50	16	**161 486 430**	1.385	165	121	19	18	9	65
2 ½	65	16	**161 486 431**	2.319	185	140	19	18	10	77
3	80	16	**161 486 432**	2.905	200	152	19	20	11	85
4	100	16	**161 486 433**	4.079	229	190	19	20	12	93





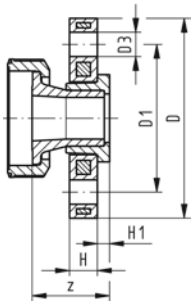
Valve end blank 546 Pro and 543 Pro PVC-U (G80)

Model:

- Flat sealing faces

d (mm)	DN (mm)	Size (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)
20	15	½	16	**161 490 837**	0.009	38	27	8	4
25	20	¾	16	**161 490 838**	0.014	44	33	10	5
32	25	1	16	**161 490 839**	0.021	53	41	11	5
40	32	1 ¼	16	**161 490 840**	0.034	65	51	11	5
50	40	1 ½	16	**161 490 841**	0.057	77	62	14	6
63	50	2	16	**161 490 842**	0.113	99	77	17	7





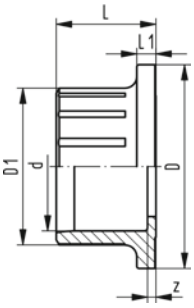
Valve end 546 Pro PVC-U (G78)
Assembly with backing flange PVC-U JIS

Model:

- Overall length according to EN 558
- Connecting dimensions: JIS B 2220, 10K

Size (inch)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	z (mm)
2 ½	65	10	**161 486 201**	1.354	185	140	19	21	2	63
3	80	10	**161 486 202**	2.109	185	150	19	31	1	82
4	100	10	**161 486 203**	3.067	210	175	19	34	1	105

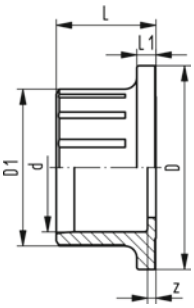




Valve end 546 Pro and 543 Pro PVC-C (G11)
With solvent cement socket metric

d (mm)	PN (bar)	Code	Weight (kg)	z (mm)	D (mm)	L (mm)	D1 (mm)	L1 (mm)
16	16	**163 481 275**	0.009	4	38	18	23	4
20	16	**163 481 276**	0.011	4	38	20	27	4
25	16	**163 481 277**	0.016	4	44	23	33	5
32	16	**163 481 278**	0.025	4	53	26	41	5
40	16	**163 481 279**	0.043	5	65	31	51	5
50	16	**163 481 280**	0.072	3	77	34	62	6
63	16	**163 481 281**	0.128	3	99	41	77	7
75	16	**163 481 282**	0.249	4	125	49	92	9
90	16	**163 481 283**	0.416	5	150	57	110	10
110	16	**163 481 284**	0.705	5	180	69	134	11

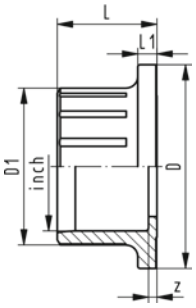




Valve end 546 Pro PVC-C (G12)
With solvent cement socket JIS

PN (bar)	Size (inch)	DN (mm)	Code	Weight (kg)	z (mm)	D1 (mm)	D2 (mm)	L1 (mm)	D (mm)	L (mm)
16	½	15	**163 481 333**	0.009	4	27	16	4	38	20
16	¾	20	**163 481 334**	0.015	4	33	20	4	44	23
16	1	25	**163 481 335**	0.026	4	41	26	5	53	26
16	1 ¼	32	**163 481 336**	0.048	4	51	33	4	65	30
16	1 ½	40	**163 481 337**	0.072	3	62	41	6	77	34
16	2	50	**163 481 338**	0.137	3	77	51	6	99	41
16	2 ½	65	**163 481 339**	0.245	4	92	65	9	125	49
16	3	80	**163 481 340**	0.430	5	110	82	10	150	57
16	4	100	**163 481 341**	0.645	5	134	100	11	180	69

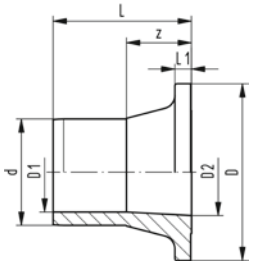




Valve end 546 Pro and 543 Pro PVC-C (G13)
With solvent cement socket Inch ASTM

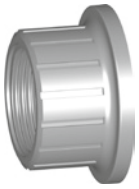
d (mm)	PN (bar)	Size (inch)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
16	16	⅜	**163 481 311**	0.012	38	24	25	4	6
20	16	½	**163 481 312**	0.014	38	30	25	4	2
25	16	¾	**163 481 313**	0.020	44	35	28	5	3
32	16	1	**163 481 314**	0.034	53	43	31	5	3
40	16	1 ¼	**163 481 315**	0.050	65	53	34	5	3
50	16	1 ½	**163 481 316**	0.072	77	60	38	6	3
63	16	2	**163 481 317**	0.122	99	73	41	7	3
75	16	2 ½	**163 481 318**	0.266	125	92	49	9	4
90	16	3	**163 481 319**	0.394	150	110	57	10	8
110	16	4	**163 481 320**	0.651	180	134	69	11	11

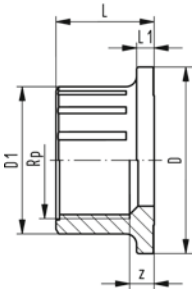




Valve end 546 Pro and 543 Pro PVC-C (G14)
With solvent cement spigot metric

d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	z (mm)
16	16	**163 481 300**	0.012	38	10	16	29	4	15
20	16	**163 481 301**	0.015	38	14	16	34	4	18
25	16	**163 481 302**	0.023	44	19	20	39	5	20
32	16	**163 481 303**	0.035	53	24	26	42	5	20
40	16	**163 481 304**	0.054	65	31	33	45	5	19
50	16	**163 481 305**	0.091	77	39	41	53	6	22
63	16	**163 481 306**	0.172	99	49	51	62	7	24
75	16	**163 481 307**	0.333	125	58	65	74	9	30
90	16	**163 481 308**	0.515	150	70	90	80	10	28
110	16	**163 481 309**	0.822	180	86	100	88	11	27





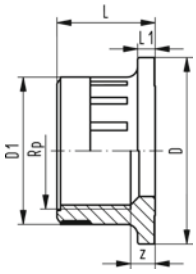
Valve end 546 Pro and 543 Pro PVC-C (G15)
With threaded socket Rp

Model:

- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-C

Rp (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
⅜	10	**163 481 286**	0.011	38	24	20	4	7
½	10	**163 481 287**	0.013	38	28	22	4	6
¾	10	**163 481 288**	0.019	44	34	25	5	7
1	10	**163 481 289**	0.031	53	42	28	5	7
1 ¼	10	**163 481 290**	0.047	65	52	30	5	7
1 ½	10	**163 481 291**	0.081	77	63	32	6	9
2	10	**163 481 292**	0.150	99	78	38	7	10
2 ½	10	**163 481 293**	0.282	125	58	49	9	19
3	10	**163 481 294**	0.481	150	110	57	10	23
4	10	**163 481 295**	0.735	180	134	69	11	29





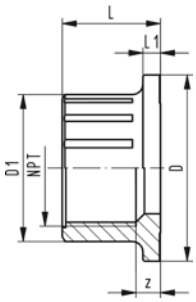
Valve end 546 Pro and 543 Pro PVC-C (G16)
With threaded socket Rp reinforced

Model:

- Connection to plastic or metal threads
- Reinforcing ring stainless (A2)
- Do not use thread sealing pastes that are harmful to PVC-C

PN (bar)	Rp (inch)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
16	⅜	**163 481 400**	0.014	38	24	20	4	7
16	½	**163 481 401**	0.018	38	28	22	4	6
16	¾	**163 481 402**	0.025	44	34	25	5	7
16	1	**163 481 403**	0.044	53	42	28	5	7
16	1 ¼	**163 481 404**	0.064	65	52	30	5	7
16	1 ½	**163 481 405**	0.106	77	63	32	6	9
16	2	**163 481 406**	0.182	99	78	38	7	10



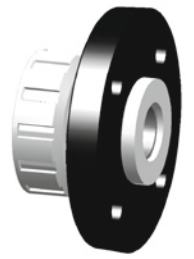


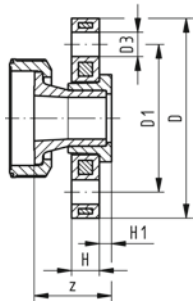
Valve end 546 Pro and 543 Pro PVC-C (G17)
With threaded socket NPT

Model:

- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-C

NPT (inch)	PN (bar)	Code	Weight (kg)	z (mm)	D1 (mm)	L1 (mm)	D (mm)	L (mm)
⅜	10	**163 481 322**	0.014	7	26	4	38	21
½	10	**163 481 323**	0.019	4	33	4	38	21
¾	10	**163 481 324**	0.026	5	39	5	44	23
1	10	**163 481 325**	0.043	6	47	5	53	28
1 ¼	10	**163 481 326**	0.064	7	57	5	65	31
1 ½	10	**163 481 327**	0.093	11	65	6	77	34
2	10	**163 481 328**	0.157	17	77	7	99	41
2 ½	10	**163 481 329**	0.317	15	58	9	125	49
3	10	**163 481 330**	0.497	21	110	10	150	57
4	10	**163 481 331**	0.763	31	134	11	180	69



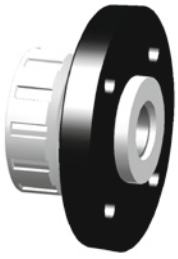


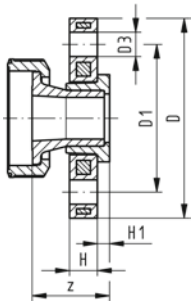
Valve end 546 Pro PVC-C (G72)
Assembly with backing flange PP-St metric

Model:

- Joint made with special adhesive Tangit for PVC-C
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504

PN (bar)	DN (mm)	d (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	z (mm)
16	15	20	**163 481 412**	0.265	95	65	14	12	6	37
16	20	25	**163 481 413**	0.330	105	75	14	12	7	42
16	25	32	**163 481 414**	0.540	115	85	14	16	7	45
16	32	40	**163 481 415**	0.820	140	100	18	16	8	48
16	40	50	**163 481 416**	1.075	150	110	18	18	8	56
16	50	63	**163 481 417**	1.435	165	125	18	18	9	65
16	65	75	**163 481 418**	2.419	185	145	18	18	10	77
16	80	90	**163 481 419**	3.159	200	160	18	20	11	85
16	100	110	**163 481 420**	4.307	220	180	18	20	12	93





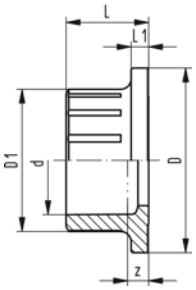
Valve end 546 Pro PVC-C (G73)
Assembly with backing flange PP-St Inch ANSI

Model:

- Joint made with special adhesive Tangit for PVC-C
- Connecting dimensions: ANSI/ASME B 16.5, ASTM D 4024, BS 1560 (bolt circle 150 lbs)

Size (inch)	PN (bar)	DN (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	z (mm)
½	16	15	**163 481 425**	0.255	95	60	16	12	6	37
¾	16	20	**163 481 426**	0.316	105	70	16	12	7	42
1	16	25	**163 481 427**	0.530	115	79	16	16	7	45
1 ¼	16	32	**163 481 428**	0.823	140	89	16	16	8	47
1 ½	16	40	**163 481 429**	1.135	150	98	16	18	8	56
2	16	50	**163 481 430**	1.435	165	121	19	18	9	65
2 ½	16	65	**163 481 431**	2.459	185	140	19	18	10	77
3	16	80	**163 481 432**	3.309	200	152	19	20	11	85
4	16	100	**163 481 433**	4.557	229	190	19	20	12	93





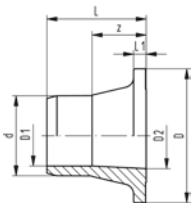
PROGEF Standard Valve end 546 Pro and 543 Pro (G30)
With fusion socket metric

Model:

- Material: PP-H

d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
16	10	**167 482 900**	0.006	38	23	19	4	5
20	10	**167 482 901**	0.007	38	27	20	4	5
25	10	**167 482 902**	0.011	44	33	22	5	6
32	10	**167 482 903**	0.011	53	41	24	5	6
40	10	**167 482 904**	0.025	65	51	26	5	7
50	10	**167 482 905**	0.040	77	62	29	6	8
63	10	**167 482 906**	0.070	99	77	34	7	6
75	10	**167 482 907**	0.168	125	92	49	9	20
90	10	**167 482 908**	0.272	150	110	57	10	24
110	10	**167 482 909**	0.467	180	134	69	11	30





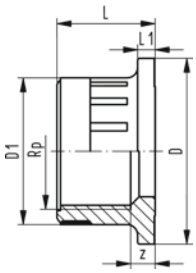
PROGEF Standard
Valve end 546 Pro and 543 Pro (G32)
With socket fusion spigot metric

Model:

- Material: PP-H

d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)
16	10	**167 482 922**	0.007	38	10	16	27	4	13	14
20	10	**167 482 923**	0.009	38	14	16	32	4	14	18
25	10	**167 482 924**	0.013	44	19	20	37	5	16	21
32	10	**167 482 925**	0.020	53	24	26	40	5	18	22
40	10	**167 482 926**	0.032	65	31	33	43	5	20	23
50	10	**167 482 927**	0.055	77	39	41	51	6	23	28
63	10	**167 482 928**	0.103	99	49	51	60	7	27	33
75	10	**167 482 929**	0.195	125	58	65	72	9	48	24
90	10	**167 482 930**	0.307	150	70	90	78	10	48	29
110	10	**167 482 931**	0.495	180	86	100	86	11	54	32





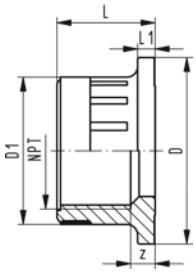
PROGEF Standard
Valve end 546 Pro and 543 Pro (G33)
With threaded socket Rp reinforced

Model:

- Material: PP-H
- Connection to plastic or metal threads
- Reinforcing ring stainless (A2)
- Do not use thread sealing pastes that are harmful to PP

PN (bar)	Rp (inch)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
16	⅜	**167 482 911**	0.013	38	24	20	4	7
16	½	**167 482 912**	0.009	38	28	21	4	6
16	¾	**167 482 913**	0.016	44	34	23	5	7
16	1	**167 482 914**	0.024	53	42	28	5	7
16	1 ¼	**167 482 915**	0.037	65	52	31	5	7
16	1 ½	**167 482 916**	0.052	77	63	34	6	9
16	2	**167 482 917**	0.118	99	78	41	7	10





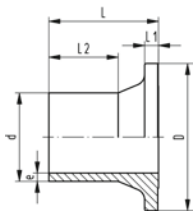
PROGEF Standard
Valve end 546 Pro and 543 Pro (G34)
With threaded socket NPT reinforced

Model:

- Material: PP-H
- Connection to plastic or metal threads
- Reinforcing ring stainless (A2)
- Do not use thread sealing pastes that are harmful to PP

NPT (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
⅜	16	**167 482 966**	0.008	38	26	20	4	7
½	16	**167 482 967**	0.012	38	33	21	4	4
¾	16	**167 482 968**	0.016	44	39	23	5	5
1	16	**167 482 969**	0.027	53	47	28	5	6
1 ¼	16	**167 482 970**	0.037	65	57	31	5	7
1 ½	16	**167 482 971**	0.052	77	65	34	6	11
2	16	**167 482 972**	0.091	99	77	41	7	17





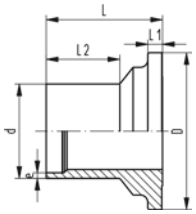
PROGEF Standard
Valve end 546 Pro and 543 Pro (G35)
With butt fusion spigot IR-Plus® SDR11 metric

Model:

- Material: PP-H

d (mm)	PN (bar)	FM	Code	Weight (kg)	L2 (mm)	e (mm)	L1 (mm)	D (mm)	L (mm)
20	10	IR	**167 482 945**	0.007	25	1.9	4	38	37
25	10	IR	**167 482 946**	0.011	25	2.3	5	44	39
32	10	IR	**167 482 947**	0.020	25	2.9	5	53	40
40	10	IR	**167 482 948**	0.041	25	3.7	5	65	43
50	10	IR	**167 482 949**	0.052	25	4.6	6	77	51
63	10	IR	**167 482 950**	0.099	28	5.8	7	99	60
75	10	IR	**167 482 951**	0.193	41	6.8	9	125	65
90	10	IR	**167 482 952**	0.270	33	8.2	10	150	62
110	10	IR	**167 482 953**	0.421	37	10.0	11	180	69





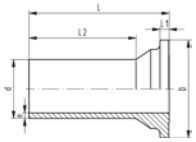
PROGEF Standard
Valve end 546 Pro and 543 Pro (G36)
With butt fusion spigot IR-Plus® SDR17.6 metric

Model:

- Material: PP-H

d (mm)	PN (bar)	FM	Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)
40	6	IR	**167 482 937**	0.032	65	43	5	25	2.3
50	6	IR	**167 482 938**	0.050	77	51	6	25	2.9
63	6	IR	**167 482 939**	0.099	99	60	7	28	3.6
75	6	IR	**167 482 940**	0.189	125	65	9	41	4.3
90	6	IR	**167 482 941**	0.265	150	62	10	33	5.1
110	6	IR	**167 482 942**	0.418	180	69	11	37	6.3





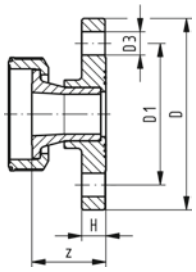
PROGEF Standard
Valve end 546 Pro and 543 Pro (G37)
With butt fusion spigot long SDR11 metric

Model:

- Material: PP-H

d (mm)	PN (bar)	Code	Weight (kg)	e (mm)	L1 (mm)	D (mm)	L (mm)	L2 (mm)
20	10	**167 482 956**	0.012	2.3	4	38	69	53
25	10	**167 482 957**	0.020	2.3	5	44	76	58
32	10	**167 482 958**	0.029	2.9	5	53	76	58
40	10	**167 482 959**	0.048	3.7	5	65	82	61
50	10	**167 482 960**	0.082	4.6	6	77	91	63
63	10	**167 482 961**	0.154	5.8	7	99	110	77





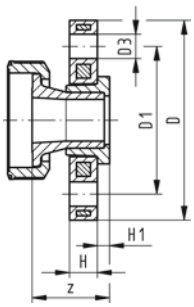
PROGEF Standard
Valve end 546 Pro (G63)
With fixed flange PP-H metric

Model:

- Material: PP-H
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Combined jointing face: flat and serrated

d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	z (mm)
20	15	10	**167 484 160**	0.090	94	65	14	12	37
25	20	10	**167 484 161**	0.115	103	75	14	13	42
32	25	10	**167 484 162**	0.170	115	85	14	14	45
40	32	10	**167 484 163**	0.275	138	100	18	15	48
50	40	10	**167 484 164**	0.355	148	110	18	16	56
63	50	10	**167 484 165**	0.159	163	125	18	18	65





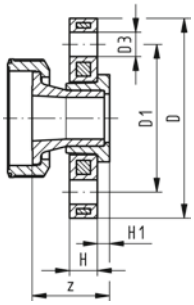
PROGEF Standard
Valve end 546 Pro (G72)
Assembly with backing flange PP-St metric

Model:

- Material: PP-H
- Overall length according to EN 558 (basic series: row 1)
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

DN (mm)	PN (bar)	d (mm)	Code	Weight (kg)	H1 (mm)	D1 (mm)	H (mm)	z (mm)	D (mm)	D3 (mm)
65	10	75	**167 484 418**	1.834	16	145	18	77	185	18
80	10	90	**167 484 419**	2.592	17	160	20	85	200	18
100	10	110	**167 484 420**	3.272	18	180	20	93	220	18



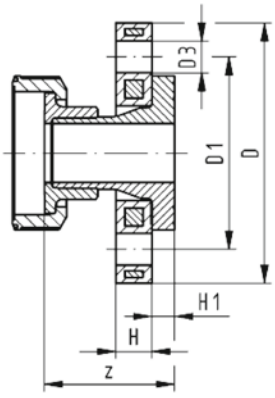


PROGEF Standard
Valve end 546 Pro (G73)
With backing flange PP-St inch ANSI

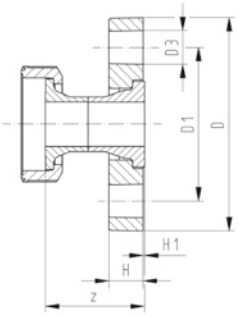
Model:

- Material: PP-H
- DN15-50 overall length **NOT** according to EN 558
- DN 65-100 overall length according to EN 558

Size (inch)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	z (mm)
½	15	10	**167 484 065**	0.224	95	60	16	12	7	54
¾	20	10	**167 484 066**	0.307	105	70	16	12	9	55
1	25	10	**167 484 067**	0.506	115	79	16	16	10	58
1 ¼	32	10	**167 484 068**	0.813	140	89	16	16	11	60
1 ½	40	10	**167 484 069**	1.160	150	98	19	18	12	66
2	50	10	**167 484 070**	1.290	165	121	19	18	14	68
2 ½	65	10	**167 484 071**	2.161	185	140	19	18	16	77
3	80	10	**167 484 072**	2.818	200	152	19	20	17	85
4	100	10	**167 484 073**	3.741	229	190	19	20	18	93







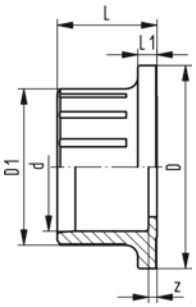
PROGEF Standard
Valve end 546 Pro (G77)
Assembly with backing flange PP JIS

Model:

- Material: PP-H
- Overall length according to EN 558
- Connecting dimensions: JIS B 2220, 10K

Size (inch)	DN (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	z (mm)
½	15	**167 484 019**	0.114	95	70	15	16	1	44
¾	20	**167 484 020**	0.141	100	75	15	18	1	53
1	25	**167 484 021**	0.231	125	90	19	20	1	58
1 ¼	32	**167 484 022**	0.306	135	100	19	21	1	53
1 ½	40	**167 484 023**	0.358	140	105	19	21	1	62
2	50	**167 484 024**	0.533	155	120	19	21	1	67
2 ½	65	**167 484 481**	1.211	175	140	19	29	1	77
3	80	**167 484 482**	1.688	185	150	19	30	1	85
4	100	**167 484 483**	2.471	210	175	19	34	1	93

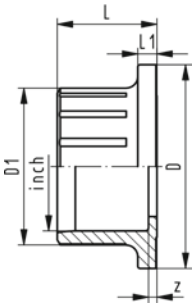




ABS valve end 546 Pro and 543 Pro (G20)
With solvent cement socket metric

d (mm)	PN (bar)	Code	Weight (kg)	D1 (mm)	z (mm)	L (mm)	D (mm)	L1 (mm)
16	10	**169 480 775**	0.006	23	4	18	38	4
20	10	**169 480 776**	0.008	27	4	20	38	4
25	10	**169 480 777**	0.012	33	4	22	44	5
32	10	**169 480 778**	0.019	41	4	26	53	5
40	10	**169 480 779**	0.031	51	5	31	65	5
50	10	**169 480 780**	0.047	62	3	34	77	6
63	10	**169 480 781**	0.086	77	3	41	99	7
75	10	**169 480 782**	0.175	92	4	49	125	9
90	10	**169 480 783**	0.292	110	5	57	150	10
110	10	**169 480 784**	0.495	134	5	69	180	11

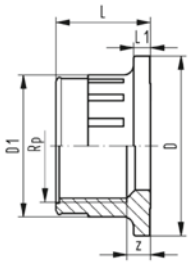




ABS valve end 546 Pro and 543 Pro (G21)
With solvent cement socket Inch BS

d (mm)	Size (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
16	⅜	10	**169 480 800**	0.007	38	23	18	4	2
20	½	10	**169 480 801**	0.007	38	27	20	4	2
25	¾	10	**169 480 802**	0.011	44	33	23	5	2
32	1	10	**169 480 803**	0.017	53	41	26	5	2
40	1 ¼	10	**169 480 804**	0.026	65	51	31	5	2
50	1 ½	10	**169 480 805**	0.052	77	62	34	6	4
63	2	10	**169 480 806**	0.100	99	77	41	7	5
75	2 ½	10	**169 480 782**	0.175	125	92	49	9	4
90	3	10	**169 480 808**	0.300	150	110	57	10	6
110	4	10	**169 480 809**	0.446	180	134	69	11	5





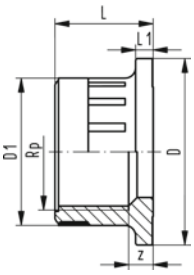
ABS valve end 546 Pro and 543 Pro (G22)
With threaded socket Rp

Model:

- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to ABS

Rp (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
⅜	10	**169 480 786**	0.008	38	24	20	4	7
½	10	**169 480 787**	0.009	38	28	22	4	6
¾	10	**169 480 788**	0.014	44	34	25	5	7
1	10	**169 480 789**	0.023	53	42	28	5	7
1 ¼	10	**169 480 790**	0.034	65	52	30	5	7
1 ½	10	**169 480 791**	0.059	77	63	32	6	9
2	10	**169 480 792**	0.109	99	78	38	7	10



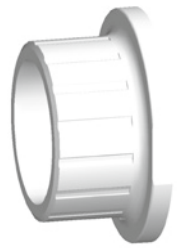


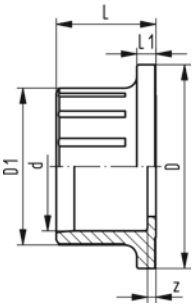
ABS valve end 546 Pro and 543 Pro (G23)
With threaded socket Rp reinforced

Model:

- Connection to plastic or metal threads
- Reinforcing ring stainless (A2)
- Do not use thread sealing pastes that are harmful to ABS

Rp (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
⅜	16	**169 480 925**	0.008	38	24	20	4	7
½	16	**169 480 926**	0.010	38	28	22	4	6
¾	16	**169 480 927**	0.014	44	34	25	5	7
1	16	**169 480 928**	0.023	53	42	28	5	7
1 ¼	16	**169 480 929**	0.035	65	52	30	5	7
1 ½	16	**169 480 930**	0.077	77	63	32	6	9
2	16	**169 480 931**	0.130	99	78	38	7	10





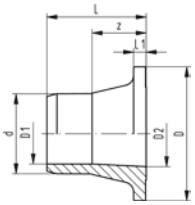
SYGEF Standard
Valve end 546 Pro and 543 Pro (G50)
With fusion socket metric

Model:

- Material: PVDF

d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
16	16	**175 483 025**	0.013	38	23	19	4	5
20	16	**175 483 026**	0.013	38	27	20	4	5
25	16	**175 483 027**	0.014	44	33	22	5	6
32	16	**175 483 028**	0.032	53	41	24	5	6
40	16	**175 483 029**	0.052	65	51	26	5	7
50	16	**175 483 030**	0.094	77	62	29	6	8
63	16	**175 483 031**	0.180	99	77	34	7	8
75	16	**175 483 032**	0.324	125	92	49	9	20
90	16	**175 483 033**	0.527	150	110	57	10	24
110	16	**175 483 034**	0.909	180	134	69	11	30





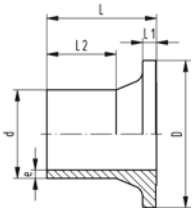
SYGEF Standard
Valve end 546 Pro and 543 Pro (G51)
With socket fusion spigot metric

Model:

- Material: PVDF

PN (bar)	d (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)
16	16	**175 483 036**	0.014	38	10	16	27	4	13	14
16	20	**175 483 037**	0.018	38	14	16	32	4	14	18
16	25	**175 483 038**	0.025	44	19	20	37	5	16	21
16	32	**175 483 039**	0.047	53	24	26	40	5	18	22
16	40	**175 483 040**	0.065	65	31	33	43	5	20	23
16	50	**175 483 041**	0.112	77	39	41	51	6	23	28
16	63	**175 483 042**	0.210	99	49	51	60	7	27	33





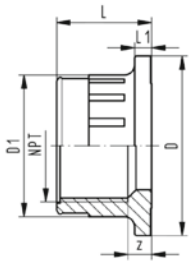
SYGEF Standard
Valve end 546 Pro and 543 Pro (G52)
With butt fusion spigot IR-Plus® metric

Model:

- Material: PVDF

d (mm)	PN (bar)	FM	Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)
20	16	IR	**175 483 048**	0.016	38	37	4	25	1.9
25	16	IR	**175 483 049**	0.021	44	39	5	25	1.9
32	16	IR	**175 483 050**	0.035	53	40	5	25	2.4
40	16	IR	**175 483 051**	0.058	65	43	5	25	2.4
50	16	IR	**175 483 052**	0.101	77	51	6	25	3.0
63	16	IR	**175 483 053**	0.187	99	60	7	28	3.0
75	16	IR	**175 483 054**	0.348	125	65	9	41	3.6
90	16	IR	**175 483 055**	0.507	150	62	10	33	4.3
110	16	IR	**175 483 056**	0.820	180	69	11	37	5.3



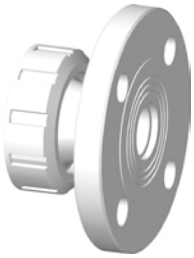


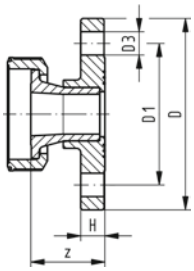
SYGEF Standard
Valve end 546 Pro and 543 Pro (G53)
With threaded socket NPT

Model:

- Material: PVDF
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVDF

PN (bar)	NPT (inch)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	z (mm)
10	⅜	**175 483 058**	0.010	38	26	14	20	4	6
10	½	**175 483 059**	0.017	38	33	16	21	4	4
10	¾	**175 483 060**	0.022	44	39	20	23	5	5
10	1	**175 483 061**	0.040	53	47	26	28	5	6
10	1 ¼	**175 483 062**	0.070	65	55	33	31	5	8
10	1 ½	**175 483 063**	0.100	77	65	41	34	6	11
10	2	**175 483 064**	0.180	99	77	51	41	7	17



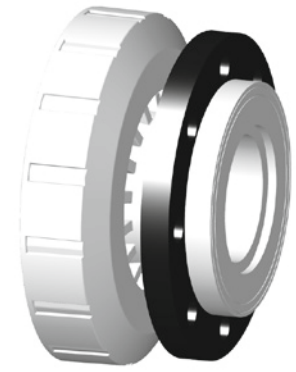


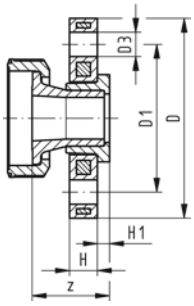
SYGEF Standard
Valve end 546 Pro (G64)
With fixed flange PVDF metric

Model:

- Material: PVDF
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Combined jointing face: flat and serrated

d (mm)	PN (bar)	DN (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	z (mm)
20	16	15	**175 483 285**	0.170	93	65	14	12	37
25	16	20	**175 483 286**	0.230	103	75	14	13	42
32	16	25	**175 483 287**	0.330	115	85	14	14	45
40	16	32	**175 483 288**	0.540	137	100	18	15	48
50	16	40	**175 483 289**	0.710	147	110	18	16	56
63	16	50	**175 483 290**	1.120	162	125	18	18	65





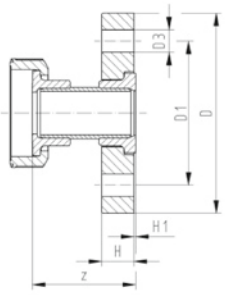
SYGEF Standard
Valve end 546 Pro (G72)
Assembly with backing flange PP-St metric

Model:

- Material: PVDF
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

PN (bar)	DN (mm)	d (mm)	Code	Weight (kg)	D3 (mm)	H1 (mm)	D1 (mm)	H (mm)	z (mm)	D (mm)
16	65	75	**175 483 294**	3.588	18	16	145	18	77	185
16	80	90	**175 483 295**	5.071	18	17	160	20	85	200
16	100	110	**175 483 296**	6.401	18	18	180	20	93	220





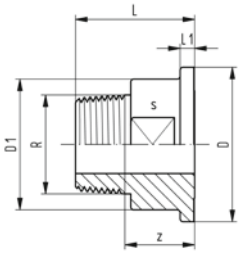
SYGEF Standard
Valve end 546 Pro (G76)
Assembly with backing flange PP JIS

Model:

- Material: PVDF

DN (mm)	Size (inch)	Code	Weight (kg)	D (mm)	H (mm)	z (mm)	H1 (mm)	D1 (mm)	D3 (mm)
15	½	**175 483 124**	0.134	95	16	52	1	70	15
20	¾	**175 483 125**	0.181	100	18	57	1	75	15
25	1	**175 483 126**	0.295	125	20	65	1	90	19
32	1 ¼	**175 483 127**	0.410	135	21	68	1	100	19
40	1 ½	**175 483 128**	0.546	140	21	81	1	105	19
50	2	**175 483 129**	0.858	155	21	85	1	120	19





Brass valve end 546 Pro and 543 Pro With threaded spigot R

Model:

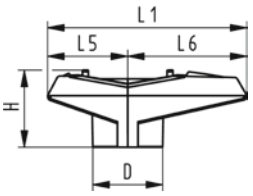
- Connection to metal threads

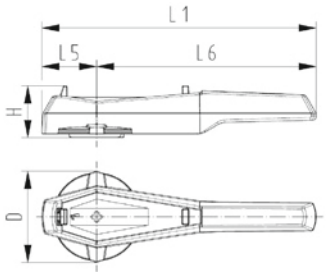
Size (inch)	Code	Weight (kg)	D (mm)	D1 (mm)	L1 (mm)	L (mm)	z (mm)	SW (mm)
½	**161 486 640**	0.144	38	32	4	36	23	30
¾	**161 486 641**	0.201	44	38	5	36	22	36
1	**161 486 642**	0.326	53	45	5	41	24	41
1 ¼	**161 486 643**	0.600	65	56	5	47	26	50
1 ½	**161 486 644**	0.870	77	64	6	53	31	60
2	**161 486 645**	1.460	99	72	7	64	37	65

Handle and handle extensions









Lever 546

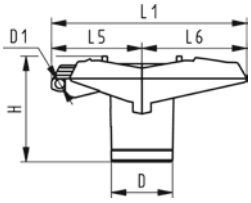
Model:

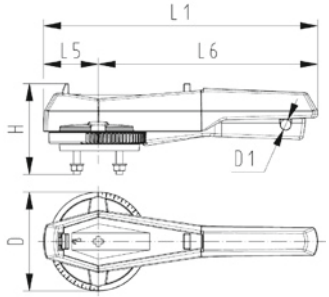
- Spare part for ball valve 546

DN (mm)	d (mm)	red (K01) Code	black (K02) Code	Weight (kg)	H (mm)	L5 (mm)	L1 (mm)	D (mm)	L6 (mm)
10 - 15	16 - 20	**167 484 088**	**167 484 076**	0.012	31	32	77	26	45
20	25	**167 484 089**	**167 484 077**	0.022	37	39	97	34	58
25	32	**167 484 090**	**167 484 078**	0.022	37	39	97	34	58
32	40	**167 484 091**	**167 484 079**	0.042	46	54	128	40	74
40	50	**167 484 092**	**167 484 080**	0.042	46	54	128	40	74
50	63	**167 484 093**	**167 484 081**	0.059	54	66	152	44	87
65	75	**167 484 094**	**167 484 082**	0.250	58	64	270	106	206
80	90	**167 484 095**	**167 484 083**	0.250	58	64	270	106	206
100	110	**167 484 096**	**167 484 084**	0.298	60	64	320	106	256









Multifunctional lever 546 red (K11) With ratchet settings lockable

Note:

To retrofit the ball valve 546 with the multifunctional handle a multifunction module is necessary in the dimensions DN65-100
Code 161 486 690 is compatible with the Butterfly Valve Type 567/578, dimension d63 DN50 - d90 DN80
Code 161 486 691 is compatible with the Butterfly Valve Type 567/578, dimension d110 DN100 - d140 DN125

d-d (mm)	DN-DN (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)	L1 (mm)	L5 (mm)	L6 (mm)
16 - 20	10 - 15	**167 484 100**	0.026	26	5	53	87	42	45
- - 25	- - 20	**167 484 101**	0.045	34	5	59	108	50	58
- - 32	- - 25	**167 484 102**	0.047	34	5	59	108	50	58
- - 40	- - 32	**167 484 103**	0.091	40	5	69	140	66	75
- - 50	- - 40	**167 484 104**	0.080	40	5	69	140	66	75
- - 63	- - 50	**167 484 105**	0.124	44	5	80	165	78	87
- - 75	- - 65	**161 486 689**	0.468	115	12	105	270	64	206
- - 90	- - 80	**161 486 690**	0.467	115	12	105	270	64	206
110 - 140	100 - 125	**161 486 691**	0.543	115	12	107	320	64	256

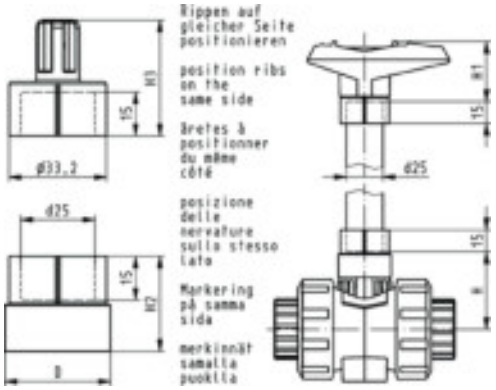


Handle extension 546 and 543 PVC-U metric

Model:

- For ball valve type 546 and 543
- Composed of adapter sockets for handle connection and stem connection
- PVC-U pipe in suitable length has to be obtained on site

DN-DN (mm)	d-d (mm)	Code	Weight (kg)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	D (mm)
10 - 15	16 - 20	**161 486 435**	0.030	41	52	29	36	26
20 - 25	25 - 32	**161 486 436**	0.029	50	62	32	39	36
32 - 40	40 - 50	**161 486 437**	0.045	65	76	34	44	40
- - 50	- - 63	**161 486 438**	0.059	84	87	37	48	44









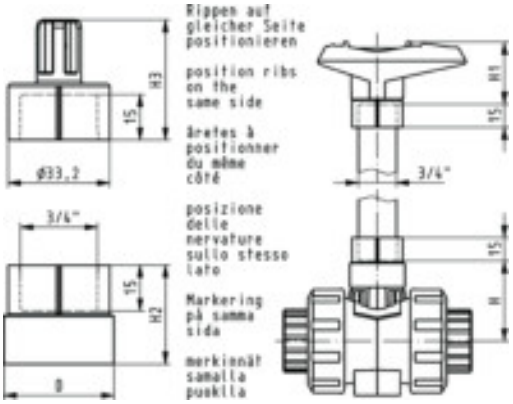
Handle extension 546 PVC-U inch BS/ASTM

Model:

- For ball valve type 546

Includes upper and lower extension adapter, does not include 3/4" pipe

DN-DN (mm)	Inch (inch)	Code	Weight (kg)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	D (mm)
10 - 15	3/8-1/2	**161 486 443**	0.032	41	52	29	36	26
20 - 25	3/4-1	**161 486 444**	0.030	50	62	32	39	36
32 - 40	1 1/4-1 1/2	**161 486 445**	0.047	65	76	34	44	40
50	2	**161 486 446**	0.058	84	87	37	48	44



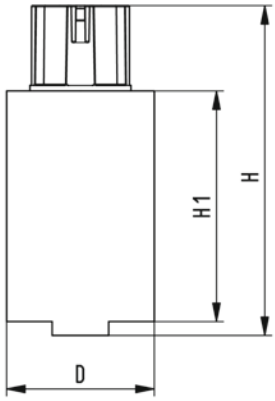


Handle extension for ball valve type 546 PVC-U DN65 - DN100

Model:

- Height variable
- Multiple use in succession possible

d-d (mm)	DN-DN (mm)	Code	Weight (kg)	H (mm)	D (mm)	H1 (mm)
75 - 90	65 - 80	**161 490 920**	0.323	143	58	100
- - 110	- - 100	**161 490 921**	0.413	143	64	100



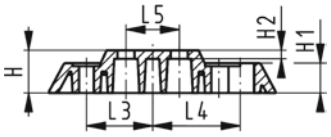
Mounting plates

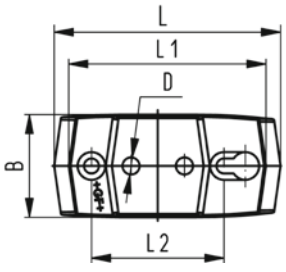


Mounting plate 546 Pro and 543 PP-GF (L02)

- 2 mounting screws inclusive

d-d (mm)	Inch (inch)	DN-DN (mm)	Code	Weight (kg)
16 - 32	⅜ - 1	10 - 25	**167 484 110**	0.054
40 - 63	1 ¼ - 2	32 - 50	**167 484 111**	0.066





d-d (mm)	Inch (inch)	B (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)
16 - 32	⅜ - 1	48	8	20	14	4	106	92	62	31	41	25
40 - 63	1 ¼ - 2	54	9	20	14	4	149	134	104	52	62	45

Mounting inserts

Mounting insert

Model:

- * 1 bag with 10 piece
- Material: A2
- to retrofit the fixing: ball valve type 546

	d-d (mm)	Code	Weight (kg)	A (mm)	E (mm)	L (mm)
	16 - 32	**161 486 014**	0.002	6	10	12
*	16 - 32	**161 486 538**	0.020	6	10	12
	40 - 90	**161 481 448**	0.005	8	12	15
*	40 - 90	**161 486 539**	0.020	8	12	15
*	- - 110	**161 486 540**	0.020			

Face seals



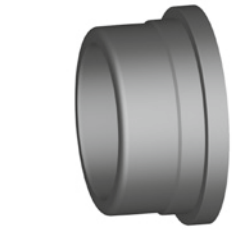
Face seal

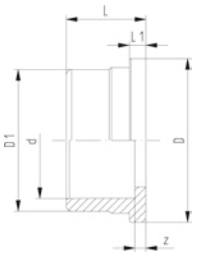
d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10 - 15	**748 410 059**	0.002	**749 410 059**	0.002
25	20	**748 410 106**	0.002	**749 410 106**	0.002
32	25	**748 410 151**	0.070	**749 410 151**	0.002
40	32	**748 410 062**	0.002	**749 410 062**	0.002
63	50	**748 410 231**	0.005	**749 410 231**	0.008

Spare parts unions

Connecting parts and subassembly type 375

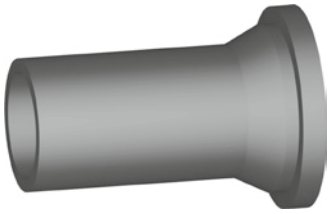
Valve ends ball valve type 375

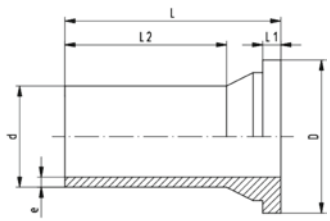




Valve end 375 PVC-U
Solvent cement socket metric

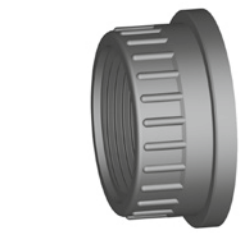
d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
16	10	16	**161 375 901**	0.012	35	26	18	5	4
20	15	16	**161 375 902**	0.009	35	29	18	5	2
25	20	16	**161 375 903**	0.015	43	35	21	5	2
32	25	16	**161 375 904**	0.025	51	43	24	6	2
40	32	16	**161 375 905**	0.042	60	52	29	6	3
50	40	16	**161 375 906**	0.061	72	62	34	7	3
63	50	16	**161 375 907**	0.100	89	76	41	7	3
75	65	10	**161 375 908**	0.176	115	90	47	8	3
90	80	10	**161 375 909**	0.280	133	106	56	10	5
110	100	10	**161 375 910**	0.510	166	130	66	12	5

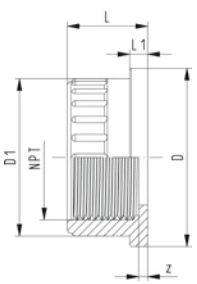




Valve end 375 PVC-U
Butt fusion spigot long
PE100 SDR11 metric

d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)
20	16	**161 375 932**	0.020	36	67	6	45	1.9
25	16	**161 375 933**	0.025	44	74	6	50	2.3
32	16	**161 375 934**	0.040	52	97	7	72	2.9
40	16	**161 375 935**	0.055	61	86	7	63	3.7
50	16	**161 375 936**	0.092	73	97	8	72	4.6
63	16	**161 375 937**	0.142	90	96	9	75	5.8
75	16	**161 375 938**	0.278	116	119	10	88	6.8
90	16	**161 375 939**	0.120	134	112	12	82	8.2
110	16	**161 375 940**	0.711	168	131	15	96	10.0





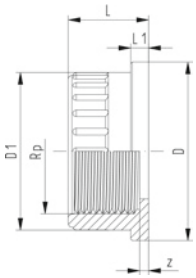
Valve end 375 PVC-U
Threaded socket NPT

Model:

- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U

d (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
⅜	10	**161 375 437**	0.011	35	26	18	5	5
½	10	**161 375 438**	0.012	35	30	24	5	6
¾	10	**161 375 439**	0.019	43	36	21	5	5
1	10	**161 375 440**	0.027	51	44	24	6	5
1 ¼	10	**161 375 441**	0.039	60	53	27	6	6
1 ½	10	**161 375 442**	0.062	72	64	27	7	6
2	10	**161 375 443**	0.100	89	77	31	7	5
2 ½	10	**161 375 444**	0.176	115	90	36	8	6
3	10	**161 375 445**	0.262	133	106	41	10	8
4	10	**161 375 446**	0.406	166	130	47	12	8





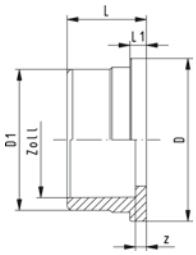
Valve end 375 PVC-U
Threaded socket Rp

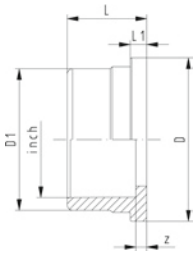
Model:

- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U

Rp (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
⅜	10	**161 375 921**	0.012	35	26	18	5	7
½	10	**161 375 922**	0.011	33	30	18	5	3
¾	10	**161 375 923**	0.017	43	36	21	5	5
1	10	**161 375 924**	0.027	51	44	24	6	5
1 ¼	10	**161 375 925**	0.042	60	53	27	6	6
1 ½	10	**161 375 926**	0.059	72	63	27	7	6
2	10	**161 375 927**	0.102	89	77	31	7	5
2 ½	10	**161 375 928**	0.158	115	90	36	8	6
3	10	**161 375 929**	0.244	133	106	41	10	8
4	10	**161 375 930**	0.389	166	130	47	12	8



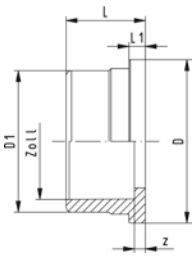


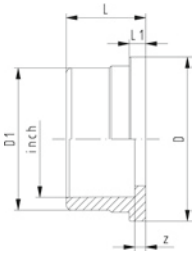


Valve end 375 PVC-U
Solvent cement socket ASTM

Size (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
⅜	16	**161 375 427**	0.013	35	26	23	5	4
½	16	**161 375 428**	0.013	35	29	25	5	2
¾	16	**161 375 429**	0.020	43	35	28	5	2
1	16	**161 375 430**	0.029	51	43	31	6	2
1 ¼	16	**161 375 431**	0.042	60	53	34	6	2
1 ½	16	**161 375 432**	0.071	72	62	38	7	3
2	16	**161 375 433**	0.117	89	76	41	7	3
2 ½	10	**161 375 434**	0.194	114	90	48	8	3
3	10	**161 375 435**	0.288	133	106	57	10	8
4	10	**161 375 436**	0.456	165	130	66	12	5



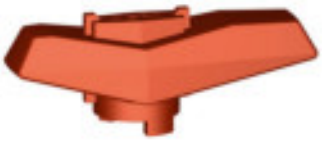


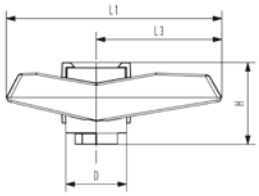


Valve end 375 PVC-U
Solvent cement socket BS

Size (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
⅜	16	**161 375 911**	0.012	35	26	18	5	4
½	16	**161 375 912**	0.011	35	29	18	5	2
¾	16	**161 375 913**	0.016	43	35	21	5	2
1	16	**161 375 914**	0.024	51	43	24	6	2
1 ¼	16	**161 375 915**	0.038	60	52	29	6	2
1 ½	16	**161 375 916**	0.066	72	62	34	7	3
2	16	**161 375 917**	0.113	89	76	41	7	3
3	10	**161 375 919**	0.286	133	106	56	10	5
4	10	**161 375 920**	0.438	166	131	66	12	5

Handle





Handle to type 375 PVC-U
Standard handle orange

Suitable for	Code	Weight (kg)	L1 (mm)	L3 (mm)	H (mm)	D (mm)
d16 - 20 mm and DN 10 - 15 mm	**161 491 950**	0.013	67	40	27	19
d25 mm and DN 20 mm	**161 491 951**	0.020	77	45	28	22
d32 mm and DN 25 mm	**161 491 952**	0.029	87	51	32	25
d40 mm and DN 32 mm	**161 491 953**	0.042	102	59	36	28
d50 mm and DN 40 mm	**161 491 954**	0.064	119	70	40	32
d63 mm and DN 50 mm	**161 491 955**	0.100	146	84	45	37
d75 mm and DN 65 mm	**161 491 956**	0.145	179	103	52	41
d90 mm and DN 80 mm	**161 491 957**	0.208	209	120	57	44
d110 mm and DN 100 mm	**161 491 958**	0.309	250	141	61	48

Seal set



Seal set 375 PVC-U

Model:

- Consisting of ball seals PTFE and o-rings

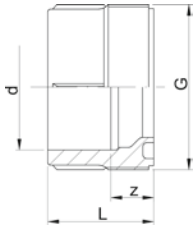
d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	**161 375 402**	0.006	**161 375 417**	0.018
20	15	**161 375 403**	0.002	**161 375 418**	0.002
25	20	**161 375 404**	0.016	**161 375 419**	0.020

table continued on the next page

d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
32	25	**161 375 405**	0.003	**161 375 420**	0.018
40	32	**161 375 406**	0.028	**161 375 421**	0.005
50	40	**161 375 407**	0.037	**161 375 422**	0.012
63	50	**161 375 408**	0.055	**161 375 423**	0.069
63	65	**161 375 409**	0.086	**161 375 424**	0.018
90	80	**161 375 410**	0.092	**161 375 425**	0.121
110	100	**161 375 411**	0.166	**161 375 426**	0.198

Union bushes





PROGEF Standard Union bush PN10

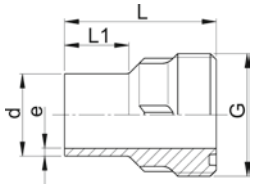
Model:

- Material: PP-H
- Fusion socket metric
- **For the dimensions d75-110 please see instructions for the installation**

d75-d110 new thread design since 2022

d (mm)	PN (bar)	Code	Weight (kg)	L (mm)	z (mm)	Size
16	10	**727 840 155**	0.006	24	11	3/4
20	10	**727 840 156**	0.011	26	12	1
25	10	**727 840 157**	0.012	28	12	1 1/4
32	10	**727 840 158**	0.021	30	12	1 1/2
40	10	**727 840 159**	0.033	34	14	2
50	10	**727 840 160**	0.039	39	16	2 1/4
63	10	**727 840 161**	0.076	47	20	2 3/4
75	10	**727 840 192**	0.080	51	18	S110x5
90	10	**727 840 193**	0.220	55	18	S130x5
110	10	**727 840 194**	0.303	54	12	S155x5



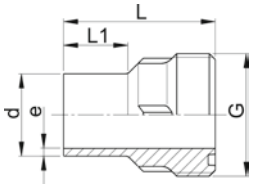


PROGEF Standard Union bush SDR11/PN10

d75-d110 new thread design since 2022

d (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	Size	e (mm)
20	10	IR	**727 848 506**	0.012	54	26	1	1.9
25	10	IR	**727 848 507**	0.020	57	26	1 1/4	2.3
32	10	IR	**727 848 508**	0.029	60	25	1 1/2	2.9
40	10	IR	**727 848 509**	0.047	63	25	2	3.7
50	10	IR	**727 848 510**	0.062	66	25	2 1/4	4.6
63	10	IR	**727 848 511**	0.107	69	25	2 3/4	5.8
75	10	IR	**727 848 212**	0.172	68	26	S110x5	6.8
90	10	IR	**727 848 213**	0.182	68	26	S110x5	8.2
110	10	IR	**727 848 214**	0.258	74	33	S130x5	10.0





PROGEF Standard Union bush
SDR17.6/PN6

Model:

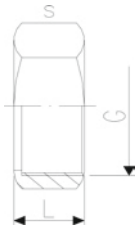
- Material: PP-H
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207

With butt fusion ends
Gasket: O-ring EPDM
For the dimensions d75-110 please see instructions for the installation

d (mm)	PN (bar)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	Size	e (mm)
75	6	IR	**727 648 412**	0.150	66	24	S107.5x3.6	4.3
90	6	IR	**727 648 413**	0.147	66	24	S107.2x3.6	5.1
110	6	IR	**727 648 414**	0.200	66	24	S127.2x3.6	6.3

Union nuts





Union nut malleable iron galvanized

Model:

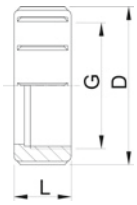
- Malleable iron galvanized

d (mm)	Thread Type	Size (inch)	Code	Weight (kg)	L (mm)	s (mm)
20	G	1	**724 690 006**	0.082	18	39
25	G	1 ¼	**724 690 007**	0.098	20	48
32	G	1 ½	**724 690 008**	0.134	22	55
40	G	2	**724 690 009**	0.221	24	67
50	G	2 ¼	**724 690 010**	0.245	25	74
63	G	2 ¾	**724 690 011**	0.375	27	90
75	G	3 ½	**724 690 012**	0.502	30	111
90	G	4	**724 690 013**	0.695	31	131

Spare parts unions and hand-operated valves

Union Nuts





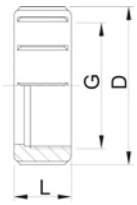
PROGEF Standard Union nut PP-H

Model:

- Material: PP glass-fibre reinforced
- d75-d110 new thread design since 2022

PN (bar)	Butt Fusion d (mm)	Size	Socket Fusion d (mm)	Code	Weight (kg)	L (mm)	D (mm)
10	16	3/4	16	**727 890 405**	0.007	21	35
10	20	1	20	**727 890 406**	0.023	21	47
10	25	1 1/4	25	**727 890 407**	0.035	23	56
10	32	1 1/2	32	**727 890 408**	0.044	24	63
10	40	2	40	**727 890 409**	0.044	27	77
10	50	2 1/4	50	**727 890 410**	0.062	30	84
10	63	2 3/4	63	**727 890 411**	0.119	39	111
10	110	S130x5	90	**727 890 113**	0.400	48	161
10		S155x5	110	**727 890 114**	0.499	52	191
10	75 - 90	S110x5	75	**727 890 112**	0.205	46	138





PROGEF Standard union nut

Model:

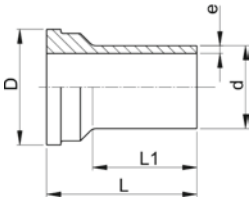
- **For the dimensions d75-110 please see instructions for the installation**
- PP glass-fibre reinforced
- 727 690 422 for d75727 690 422 for d90 (union nut fits for d75 and d90) 727 690 423 for d110

Code	Weight (kg)
727 890 422	0.205
727 890 423	0.730

Spare parts for hand-operated valves

Union ends





PROGEF Natural union end IR S5 SDR11/PN10

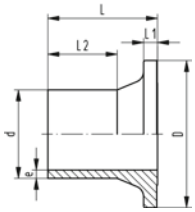
Model:

- Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207

d (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	D (mm)	e (mm)
20	BCF, IR	**728 608 506**	0.004	53	35	30	1.9
25	BCF, IR	**728 608 507**	0.013	56	36	39	2.6
32	BCF, IR	**728 608 508**	0.024	59	38	45	3.0
40	BCF, IR	**728 608 509**	0.042	63	39	57	3.7
50	BCF, IR	**728 608 510**	0.055	65	41	63	4.6
63	BCF, IR	**728 608 511**	0.092	69	43	78	5.8

Valve ends





PROGEF Natural valve end 546 SDR11/PN10

Model:

- Material: PP-R unpigmented
- Bead and Crevice Free weldable with the new BCF® Plus fusion machine
- Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-n (PP-R)
- Conventional butt-welding according to DVS 2207

d (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	D (mm)	e (mm)
20	BCF, IR	**168 480 260**	0.007	37	4	25	38	1.9
25	BCF, IR	**168 480 261**	0.011	39	5	25	44	2.3
32	BCF, IR	**168 480 262**	0.018	40	5	25	53	2.9
40	BCF, IR	**168 480 263**	0.029	43	5	25	65	3.7
50	BCF, IR	**168 480 264**	0.053	51	6	25	77	4.6
63	BCF, IR	**168 480 265**	0.093	60	7	28	99	5.8

Spare parts and accessories

Accessories for valves

Ball valves



Transparent lever clip for ball valve labelling

Option:

- Component for ball valve Type 546 Pro, 543 Pro, 523 Pro
- Material: SAN
- UV-, weather- and chemical resistant
- Allows valve marking in conjunction with perforated printing sheets
- Perforated printing sheets are not included (depending on dimension see 198 807 231 - 198807 236)

Inch (inch)	d-d (mm)	DN-DN (mm)	Code	Quantity
⅜ - ½	16 - 20	10 - 15	**198 807 221**	10 pc's
¾ - 1	25 - 32	20 - 25	**198 807 222**	10 pc's
1 ¼ - 1 ½	40 - 50	32 - 40	**198 807 223**	5 pc's
2	63	50	**198 807 224**	5 pc's
2 ½ - 3	75 - 90	65 - 80	**198 807 225**	5 pc's
4	110	100	**198 807 226**	5 pc's

Printing sheets for ball valve labelling

Option:

- Component for ball valve Type 546 Pro, 543 Pro, 523 Pro
- Material: DIN A4 Polymer-sheet
- UV-, weather- and chemical resistant
- Allows valve marking in conjunction with transparent lever clip
- Can be labelled with laser printers or by hand
- Transparent lever clip is not included (depending on dimension see 198 807 221 - 198 807 226)

Inch (inch)	d-d (mm)	DN-DN (mm)	Code	Quantity
⅜ - ½	16 - 20	10 - 15	**198 807 231**	25 Sheets with each 48 Labels
¾ - 1	25 - 32	20 - 25	**198 807 232**	25 Sheets with each 24 Labels
1 ¼ - 1 ½	40 - 50	32 - 40	**198 807 233**	25 Sheets with each 18 Labels
2	63	50	**198 807 234**	25 Sheets with each 11 Labels
2 ½ - 3	75 - 90	65 - 80	**198 807 235**	25 Sheets with each 6 Labels
4	110	100	**198 807 236**	25 Sheets with each 4 Labels
⅜ - ½	16 - 20	10 - 15	**198 807 241**	100 Sheets with each 48 Labels
¾ - 1	25 - 32	20 - 25	**198 807 242**	100 Sheets with each 24 Labels
1 ¼ - 1 ½	40 - 50	32 - 40	**198 807 243**	100 Sheets with each 18 Labels
2	63	50	**198 807 244**	100 Sheets with each 11 Labels
2 ½ - 3	75 - 90	65 - 80	**198 807 245**	100 Sheets with each 6 Labels
4	110	100	**198 807 246**	100 Sheets with each 4 Labels

Ball valves and check valves



Adapter ring for valves
For ball valve type 546/542, check valve type 561/562, ventilating & bleed valve type 591/595

- Suitable for ball valve type 546/543/523/547 and check valves type 561/591
- Adapter ring enables standard union ends (e.g. metal inserts made of stainless steel, brass or malleable cast iron with R or Rp thread) for use with Ball Valves and Check Valves
- Material: PP-GF (30% glass-fibre reinforced)

d (mm)	DN (mm)	Code	Weight (kg)
20	15	**167 481 182**	0.003
25	20	**167 481 183**	0.003
32	25	**167 481 184**	0.004
40	32	**167 481 185**	0.008
50	40	**167 481 186**	0.014
63	50	**167 481 187**	0.026

Diaphragm valves new generation



Electrical feedback module I40/I41
With limit switches Ag Ni or AU

Model:

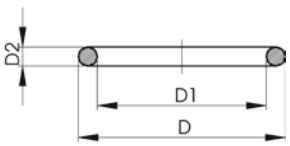
- No height increase
- Easy, fast and safe installation
- Accessory to hand operated diaphragm valve 514 - 519
- Self adjusting mechanism
- Including plug 3P+E / protection: IP65

Size	d-d (mm)	DN-DN (mm)	Ag Ni Code	Weight (kg)	AU Code	Weight (kg)
1	10 - 25	10 - 20	**198 151 335**	0.095	**198 151 336**	0.120
2	32 - 40	25 - 32	**198 151 337**	0.101	**198 151 338**	0.101
3	50 - 63	40 - 50	**198 151 339**	0.154	**198 151 340**	0.120

Spare parts

Spare parts Industry



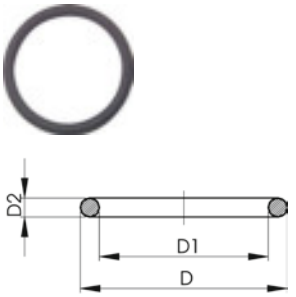


O-Ring Gasket

Model:

- Suitable for union PP-N 28 51 85
- Hardness approx. 65° Shore

d (mm)	Size (inch)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)
20	½	15	**748 410 140**	0.023	**749 410 140**	0.020	20.32	15.08	2.62
32	1	25	**748 410 025**	0.010	**749 410 025**	0.002	32.05	24.99	3.53
40	1 ¼	32	**748 410 152**	0.005	**749 410 152**	0.003	41.78	31.12	5.34
63	2	50	**748 410 171**	0.005	**749 410 171**	0.007	60.84	50.16	5.34



O-Ring Union EPDM/FKM

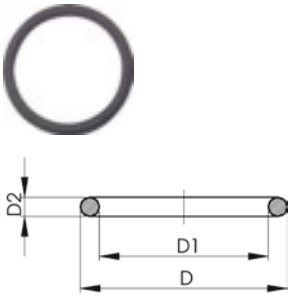
Model:

- For ecoFIT, PROGEF Std/Plus, SYGEF Std unions and adapter unions for butt fusion
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°C
- FKM minimum temperature -15°C

Note:

For the O-Rings of new unions as of 10/2022, see respective union datasheet

d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	D (mm)	D1 (mm)	D2 (mm)
75 / 90	65 / 80	**748 410 383**	0.006	**749 410 383**	85.31	74.63	5.34
110	110	**748 410 384**	0.016	**749 410 384**	128.68	114.70	6.99



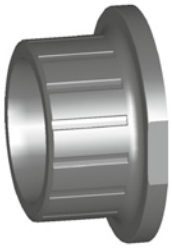
O-Ring gasket EPDM/FKM

Model:

- For flange adaptors, unions and adaptor unions
- For ecoFIT, PROGEF Std/Plus, SYGEF Std
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°C
- FKM minimum temperature -15°C

** For ecoFIT unions 753 518 612 to ...614, 753 528 612 to ...614, 753 518 412 to ...414 and 753 528 412 to ...414

	Suitable for	EPDM Code	FKM Code	D (mm)	D1 (mm)	D2 (mm)
	d10-20 / DN8	**748 410 004**	**749 410 004**	17.62	12.37	2.62
	d16 / DN10	**748 410 005**	**749 410 005**	20.78	15.54	2.62
	d16 / DN10	**748 410 000**	**749 410 000**	25.70	18.64	3.53
	d20 / DN15	**748 410 006**	**749 410 006**	27.28	20.22	3.53
	d25 / DN20	**748 410 007**	**749 410 007**	35.23	28.17	3.53
	d25 / DN15	**748 410 001**	**749 410 001**	30.46	23.40	3.53
	d32 / DN25	**748 410 008**	**749 410 008**	39.99	32.93	3.53
	d40 / DN32	**748 410 002**	**749 410 002**	43.16	36.10	3.53
	d40 / DN32	**748 410 009**	**749 410 009**	51.33	40.65	5.34
	d40 / DN32	**748 410 003**	**749 410 003**	54.50	43.82	5.34
	d50 / DN40	**748 410 010**	**749 410 010**	57.68	46.99	5.34
	d60 / DN50	**748 410 011**	**749 410 011**	70.37	59.69	5.34
	d63 / DN50	**748 410 012**	**749 410 012**	64.02	53.34	5.34
	d75 / DN65	**748 410 024**	**749 410 024**	76.72	66.04	5.33
	d75 / DN65	**748 410 013**	**749 410 013**	79.90	69.22	5.34
**	d75-90 / DN65-80	**748 410 014**	**749 410 014**	92.60	81.92	5.34
*	d90 / DN80	**748 410 015**	**749 410 015**	111.68	101.00	5.34
	d75-90 /DN 65-80	**748 410 383**	**749 410 383**	85.31	74.63	5.34
**	d90-110 / DN80-100	**748 410 248**	**749 410 248**	105.30	94.62	5.34
	d110 / DN100	**748 410 384**	**749 410 384**	128.68	114.70	6.99
**	d110 / DN100	**748 410 016**	**749 410 016**	134.00	120.20	6.99
	d125 / DN100	**748 410 017**	**749 410 017**	149.90	135.90	6.99
	d140 / DN125	**748 410 018**	**749 410 018**	165.80	151.80	6.99
	d160 / DN150	**748 410 019**	**749 410 019**	184.15	170.17	6.99
	d200 / DN200	**748 410 163**	**749 410 163**	235.60	221.60	6.99
	d250 / DN250	**748 410 173**	**749 410 173**	305.50	291.50	6.99
	d280 / DN250	**748 410 182**	**749 410 182**	280.10	266.10	6.99
	d315 / DN300	**748 410 174**	**749 410 174**	356.30	342.30	6.99



Solvent cement spigots/sockets
For ball valve type 546/542, check valve type 561/562, ventilating & bleed valve type 591/595

d (mm)	Size (inch)	DN (mm)
16	⅜	10
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50
75	2 ½	65
90	3	80
110	4	100

d (mm)	PVC-U metric (G01) Code	PVC-U BS (G04) Code	PVC-U ASTM (G03) Code	PVC-C metric (G11) Code	PVC-C ASTM (G13) Code	ABS metric (G20) Code
16	**161 490 666**	**161 490 734**	**161 490 712**	**163 481 275**	**163 481 311**	**169 480 775**
20	**161 490 667**	**161 490 735**	**161 490 713**	**163 481 276**	**163 481 312**	**169 480 776**
25	**161 490 668**	**161 490 736**	**161 490 714**	**163 481 277**	**163 481 313**	**169 480 777**
32	**161 490 669**	**161 490 737**	**161 490 715**	**163 481 278**	**163 481 314**	**169 480 778**
40	**161 490 670**	**161 490 738**	**161 490 716**	**163 481 279**	**163 481 315**	**169 480 779**
50	**161 490 671**	**161 490 739**	**161 490 717**	**163 481 280**	**163 481 316**	**169 480 780**
63	**161 490 672**	**161 490 740**	**161 490 718**	**163 481 281**	**163 481 317**	**169 480 781**
75	**161 490 673**	**161 490 673**	**161 490 719**	**163 481 282**	**163 481 318**	**169 480 782**
90	**161 490 674**	**161 490 742**	**161 490 720**	**163 481 283**	**163 481 319**	**169 480 783**
110	**161 490 675**	**161 490 743**	**161 490 721**	**163 481 284**	**163 481 320**	**169 480 784**

d (mm)	ABS BS (G21) Code
16	**169 480 800**
20	**169 480 801**
25	**169 480 802**
32	**169 480 803**
40	**169 480 804**
50	**169 480 805**
63	**169 480 806**
75	**169 480 782**
90	**169 480 808**
110	**169 480 809**

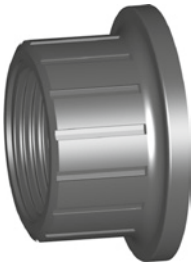


Solvent cement spigots
For ball valve type 546/542, check valve type 561/562, ventilating & bleed valve type 591/595

d (mm)	DN (mm)	PVC-U metric (G05) Code	PVC-C metric (G14) Code
16	10	**161 490 701**	**163 481 300**
20	15	**161 490 702**	**163 481 301**
25	20	**161 490 703**	**163 481 302**
32	25	**161 490 704**	**163 481 303**
40	32	**161 490 705**	**163 481 304**
50	40	**161 490 706**	**163 481 305**

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d (mm)	DN (mm)	PVC-U metric (G05) Code	PVC-C metric (G14) Code
63	50	161 490 707	163 481 306
75	65	161 490 708	163 481 307
90	80	161 490 709	163 481 308
110	100	161 490 710	163 481 309

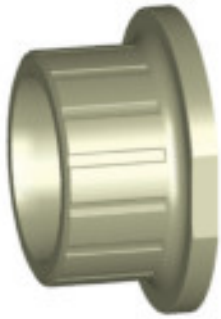


Threaded sockets
For ball valve type 546/542, check valve type 561/562, ventilating & bleed valve type 591/595

Size (inch)	DN (mm)
⅜	10
½	15
¾	20
1	25
1 ¼	32
1 ½	40
2	50
2 ½	65
3	80
4	100

Size (inch)	PVC-U Rp (G06) Code	PVC-U Rp reinforced (G07) Code	PVC-U NPT (G09) Code	PVC-C Rp (G15) Code	PVC-C Rp reinforced (G16) Code	PVC-C NPT (G17) Code
⅜	161 490 690	161 490 825	161 490 723	163 481 286	163 481 400	163 481 322
½	161 490 691	161 490 826	161 490 724	163 481 287	163 481 401	163 481 323
¾	161 490 692	161 490 827	161 490 725	163 481 288	163 481 402	163 481 324
1	161 490 693	161 490 828	161 490 726	163 481 289	163 481 403	163 481 325
1 ¼	161 490 694	161 490 829	161 490 727	163 481 290	163 481 404	163 481 326
1 ½	161 490 695	161 490 830	161 490 728	163 481 291	163 481 405	163 481 327
2	161 490 696	161 490 831	161 490 729	163 481 292	163 481 406	163 481 328
2 ½	161 490 697		161 490 730	163 481 293		163 481 329
3	161 490 698		161 490 731	163 481 294		163 481 330
4	161 490 699		161 490 732	163 481 295		163 481 331

Size (inch)	ABS Rp (G22) Code	ABS Rp reinforced (G23) Code	PP-H Rp reinforced (G33) Code	PP-H NPT reinforced (G34) Code	PVDF NPT (G53) Code
⅜	169 480 786	169 480 925	167 482 911	167 482 966	175 483 058
½	169 480 787	169 480 926	167 482 912	167 482 967	175 483 059
¾	169 480 788	169 480 927	167 482 913	167 482 968	175 483 060
1	169 480 789	169 480 928	167 482 914	167 482 969	175 483 061
1 ¼	169 480 790	169 480 929	167 482 915	167 482 970	175 483 062
1 ½	169 480 791	169 480 930	167 482 916	167 482 971	175 483 063
2	169 480 792	169 480 931	167 482 917	167 482 972	175 483 064
2 ½					
3					
4					



Fusion socket
For ball valve type 546/542, check valve type 561/562, ventilating & bleed valve type 591/595

d (mm)	DN (mm)	PN (bar)	PP-H metric (G30) Code	PVDF metric (G50) Code	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
16	10	10	**167 482 900**	**175 483 025**	38	23	19	4	5
20	15	10	**167 482 901**	**175 483 026**	38	27	20	4	5
25	20	10	**167 482 902**	**175 483 027**	44	33	22	5	6
32	25	10	**167 482 903**	**175 483 028**	53	41	24	5	6
40	32	10	**167 482 904**	**175 483 029**	65	51	26	5	7
50	40	10	**167 482 905**	**175 483 030**	77	62	29	6	8
63	50	10	**167 482 906**	**175 483 031**	99	77	34	7	6
75	65	10	**167 482 907**	**175 483 032**	125	92	49	9	20
90	80	10	**167 482 908**	**175 483 033**	150	110	57	10	24
110	100	10	**167 482 909**	**175 483 034**	180	134	69	11	30



Socket fusion spigot IR-Plus®
For ball valve type 546/542, check valve type 561/562, ventilating & bleed valve type 591/595

d (mm)	DN (mm)	PP-H metric (G32) Code	PVDF metric (G51) Code
16	10	**167 482 922**	**175 483 036**
20	15	**167 482 923**	**175 483 037**
25	20	**167 482 924**	**175 483 038**
32	25	**167 482 925**	**175 483 039**
40	32	**167 482 926**	**175 483 040**
50	40	**167 482 927**	**175 483 041**
63	50	**167 482 928**	**175 483 042**
75	65	**167 482 929**	
90	80	**167 482 930**	
110	100	**167 482 931**	



Butt fusion spigot IR-Plus®
For ball valve type 546/542, check valve type 561/562, ventilating & bleed valve type 591/595

d (mm)	DN (mm)	PP-H metric SDR11 (G35) Code	PP-H metric long SDR11 (G37) Code	PP-N metric SDR11 Code	PVDF metric (G52) Code
20	15	**167 482 945**	**167 482 956**	**168 480 260**	**175 483 048**
25	20	**167 482 946**	**167 482 957**	**168 480 261**	**175 483 049**
32	25	**167 482 947**	**167 482 958**	**168 480 262**	**175 483 050**
40	32	**167 482 948**	**167 482 959**	**168 480 263**	**175 483 051**
50	40	**167 482 949**	**167 482 960**	**168 480 264**	**175 483 052**
63	50	**167 482 950**	**167 482 961**	**168 480 265**	**175 483 053**
75	65	**167 482 951**			**175 483 054**
90	80	**167 482 952**			**175 483 055**
110	100	**167 482 953**			**175 483 056**



Butt fusion spigots PE100 IR-Plus®
For ball valve type 546/542, check valve type 561/562, ventilating & bleed valve type 591/595

d (mm)	DN (mm)	metric SDR11 (G41) Code	metric long SDR11 (G43) Code
20	15	**193 480 102**	**193 480 152**
25	20	**193 480 103**	**193 480 153**
32	25	**193 480 104**	**193 480 154**
40	32	**193 480 105**	**193 480 155**

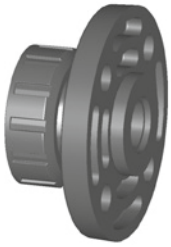
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d (mm)	DN (mm)	metric SDR11 (G41) Code	metric long SDR11 (G43) Code
50	40	193 480 106	193 480 156
63	50	193 480 107	193 480 157
75	65		193 480 158
90	80		193 480 159
110	100		193 480 160



Fixed flange
For ball valve type 546/542, check valve type 561/562, ventilating & bleed valve type 591/595

d (mm)	DN (mm)	PVC-U metric (G60) Code	PP-H metric (G63) Code	PVDF metric (G64) Code
20	15	161 486 360	167 484 160	175 483 285
25	20	161 486 361	167 484 161	175 483 286
32	25	161 486 362	167 484 162	175 483 287
40	32	161 486 363	167 484 163	175 483 288
50	40	161 486 364	167 484 164	175 483 289
63	50	161 486 365	167 484 165	175 483 290



Backing flange
For ball valve type 546/542, check valve type 561/562, ventilating & bleed valve type 591/595

d (mm)	Size (inch)	DN (mm)
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50
75	2 ½	65
90	3	80
110	4	100

d (mm)	PVC-U metric (G70) Code	PVC-U ANSI (G71) Code	PVC-U PP-St metric (G72) Code	PVC-U PP-St ANSI (G73) Code	PVC-C PP-St metric (G72) Code	PVC-C PP-St ANSI (G73) Code
20	161 486 265	161 486 275	161 486 285	161 486 425	163 481 412	163 481 425
25	161 486 266	161 486 276	161 486 286	161 486 426	163 481 413	163 481 426
32	161 486 267	161 486 277	161 486 287	161 486 427	163 481 414	163 481 427
40	161 486 268	161 486 278	161 486 288	161 486 428	163 481 415	163 481 428
50	161 486 269	161 486 279	161 486 289	161 486 429	163 481 416	163 481 429
63	161 486 270	161 486 280	161 486 290	161 486 430	163 481 417	163 481 430
75	161 486 271	161 486 281	161 486 291	161 486 431	163 481 418	163 481 431
90	161 486 272	161 486 282	161 486 292	161 486 432	163 481 419	163 481 432
110	161 486 273	161 486 283	161 486 293	161 486 433	163 481 420	163 481 433

d (mm)	PP-H PP-St ANSI (G73) Code
20	167 484 065
25	167 484 066
32	167 484 067
40	167 484 068
50	167 484 069

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d (mm)	PP-H PP-St ANSI (G73) Code
63	167 484 070
75	167 484 071
90	167 484 072
110	167 484 073



Union nut
For ball valve type 546/542, check valve type 561/562, ventilating & bleed valve type 591/595

d (mm)	DN (mm)	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code
16	10	161 490 538	163 481 226	169 480 713	167 482 712	175 482 937
20	15	161 490 538	163 481 226	169 480 713	167 482 712	175 482 937
25	20	161 490 539	163 481 227	169 480 714	167 482 713	175 482 938
32	25	161 490 540	163 481 228	169 480 715	167 482 714	175 482 939
40	32	161 490 541	163 481 229	169 480 716	167 482 715	175 482 940
50	40	161 490 542	163 481 230	169 480 717	167 482 716	175 482 941
63	50	161 490 543	163 481 231	169 480 718	167 482 717	175 482 942
75	65	161 490 544	163 481 232	169 480 719	167 482 718	175 482 943
90	80	161 490 545	163 481 233	169 480 720	167 482 719	175 482 944
110	100	161 490 546	163 481 234	169 480 721	167 482 720	175 482 945

Spare parts wafer check valve type 369





Seal set (1)

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
40	1 ¼	32		161 484 887
50	1 ½	40	161 484 876	161 484 888
63	2	50	161 484 877	161 484 889
75	2 ½	65	161 484 878	161 484 890
90	3	80	161 484 879	161 484 891
110	4	100	161 484 880	161 484 892
140	5	125	161 484 881	161 484 893
160	6	150	161 484 882	161 484 894
225	8	200	161 484 883	161 484 895
280	10	250	161 484 884	161 484 896
315	12	300	161 484 885	161 484 897



Disc set (2)

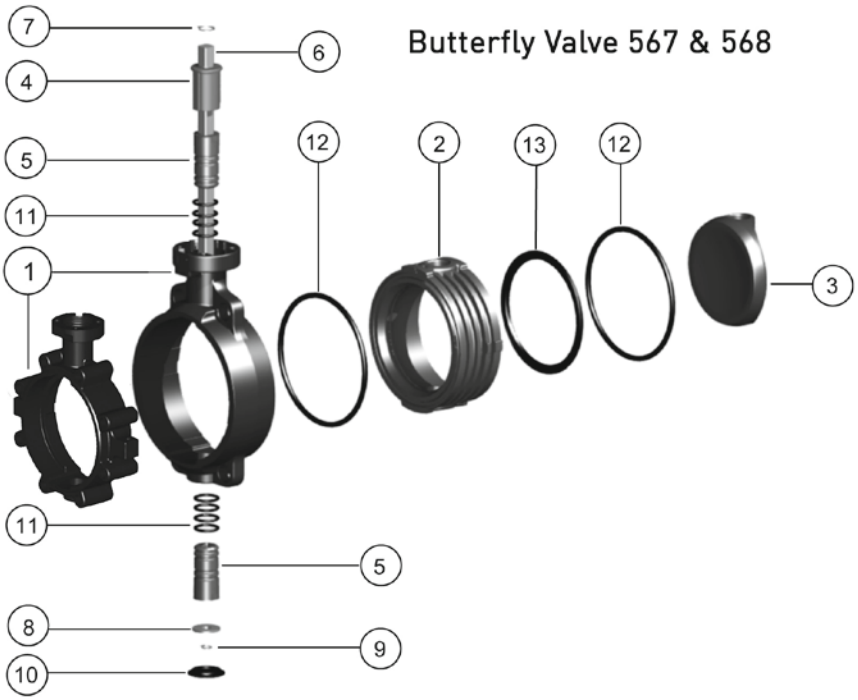
d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	PP-H EPDM Code	PP-H FKM Code	PVDF FKM Code
40	1 ¼	32	**161 369 122**	**161 369 142**	**167 369 122**	**167 369 142**	**175 369 142**
50	1 ½	40	**161 369 123**	**161 369 143**	**167 369 123**	**167 369 143**	**175 369 143**
63	2	50	**161 369 124**	**161 369 144**	**167 369 124**	**167 369 144**	**175 369 144**
75	2 ½	65	**161 369 125**	**161 369 145**	**167 369 125**	**167 369 145**	**175 369 145**
90	3	80	**161 369 126**	**161 369 146**	**167 369 126**	**167 369 146**	**175 369 146**
110	4	100	**161 369 127**	**161 369 147**	**167 369 127**	**167 369 147**	**175 369 147**
140	5	125	**161 369 128**	**161 369 148**	**167 369 128**	**167 369 148**	**175 369 148**
160	6	150	**161 369 129**	**161 369 149**	**167 369 129**	**167 369 149**	**175 369 149**
225	8	200	**161 369 130**	**161 369 150**	**167 369 130**	**167 369 150**	**175 369 150**
280	10	250	**161 369 131**	**161 369 151**	**167 369 131**	**167 369 151**	**175 369 151**
315	12	300	**161 369 132**	**161 369 152**	**167 369 132**	**167 369 152**	**175 369 152**



Spring (3)

d (mm)	Size (inch)	DN (mm)	V4A Code	Hastelloy C Code
40	1 ¼	32	**161 484 900**	**161 484 912**
50	1 ½	40	**161 484 901**	**161 484 913**
63	2	50	**161 484 902**	**161 484 914**
75	2 ½	65	**161 484 903**	**161 484 915**
90	3	80	**161 484 904**	**161 484 916**
110	4	100	**161 484 905**	**161 484 917**
140	5	125	**161 484 905**	**161 484 917**
160	6	150	**161 484 907**	**161 484 919**
225	8	200	**161 484 908**	**161 484 920**
280	10	250	**161 484 909**	**161 484 921**
315	12	300	**161 484 910**	**161 484 922**

Spare parts butterfly valve type 567/578





Inner body
For butterfly valve type 567/578

Model:

- Inner body consisting of: inner body (2) and profile seal (13)

d (mm)	Size (inch)	DN (mm)
63	2	50
75	2 ½	65
90	3	80
110	4	100
140	5	125
160	6	150
225	8	200
280	10	250
315	12	300

d (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code	PP-H EPDM Code
63	161 486 861	161 486 873	163 481 591	163 481 603	169 481 067	167 484 271
75	161 486 862	161 486 874	163 481 592	163 481 604	169 481 068	167 484 272
90	161 486 863	161 486 875	163 481 593	163 481 605	169 481 069	167 484 273
110	161 486 864	161 486 876	163 481 594	163 481 606	169 481 070	167 484 274
140	161 486 865	161 486 877	163 481 595	163 481 607	169 481 071	167 484 275
160	161 486 866	161 486 878	163 481 596	163 481 608	169 481 072	167 484 276
225	161 486 867	161 486 879	163 481 597	163 481 609	169 481 073	167 484 277
280	161 486 868	161 486 880	163 481 598	163 481 610		167 484 278
315	161 486 869	161 486 881	163 481 599	163 481 611		167 484 279

d (mm)	PP-H FKM Code	PVDF FKM Code	PVDF PTFE Code
63	167 484 286	175 483 413	175 483 752
75	167 484 287	175 483 414	175 483 753
90	167 484 288	175 483 415	175 483 754
110	167 484 289	175 483 416	175 483 755
140	167 484 290	175 483 417	175 483 756
160	167 484 291	175 483 418	175 483 757
225	167 484 292	175 483 419	175 483 758
280	167 484 293	175 483 420	175 483 759
315	167 484 294	175 483 421	175 483 760



Disc
For butterfly valve type 567/578

d (mm)	Size (inch)	DN (mm)	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code
63	2	50	161 490 889	163 481 451	169 480 951	167 483 226	175 483 251
75	2 ½	65	161 490 890	163 481 452	169 480 952	167 483 227	175 483 252
90	3	80	161 490 891	163 481 453	169 480 953	167 483 228	175 483 253
110	4	100	161 490 892	163 481 454	169 480 954	167 483 229	175 483 254
140	5	125	161 490 893	163 481 455	169 480 955	167 483 230	175 483 255
160	6	150	161 490 894	163 481 456	169 480 956	167 483 231	175 483 256
225	8	200	161 490 895	163 481 457	169 480 957	167 483 232	175 483 257
280	10	250	161 490 896	163 481 458	169 480 958	167 483 233	175 483 258
315	12	300	161 490 897	163 481 459	169 480 959	167 483 234	175 483 259
355	14	350				167 483 235	
400	16	400				167 483 236	
450	18	450				167 483 237	
500	20	500				167 483 238	
630	24	600				167 483 239	





Bearing bush
For butterfly valve type 567/578

Model:

- Included in delivery 2 pcs.
- With o-ring
- Bearing bushes in PP-H are used in PP-H and ABS butterfly valves

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code
63, 75, 90	2, 2½, 3	50, 65, 80	**161 486 886**	**161 486 892**	**163 481 576**	**163 481 582**
110, 140	4, 5	100, 125	**161 486 887**	**161 486 893**	**163 481 577**	**163 481 583**
160, 225	6, 8	200	**161 486 888**	**161 486 894**	**163 481 578**	**163 481 584**
280, 315	10, 12	250, 300	**161 486 889**	**161 486 895**	**163 481 579**	**163 481 585**
355	14	350				
400	16	400				
450	18	450				
500	20	500				
630	24	600				

d (mm)	Size (inch)	DN (mm)	PP-H EPDM Code	PP-H FKM Code	PVDF FKM Code
63, 75, 90	2, 2½, 3	50, 65, 80	**167 484 259**	**167 484 265**	**175 483 426**
110, 140	4, 5	100, 125	**167 484 260**	**167 484 266**	**175 483 427**
160, 225	6, 8	200	**167 484 261**	**167 484 267**	**175 483 428**
280, 315	10, 12	250, 300	**167 484 262**	**167 484 268**	**175 483 429**
355	14	350	**167 484 263**	**167 484 269**	
400	16	400	**167 484 264**	**167 484 270**	
450	18	450	**167 484 280**	**167 484 283**	
500	20	500	**167 484 281**	**167 484 284**	
630	24	600	**167 484 282**	**167 484 285**	



Shaft set
For butterfly valve type 567/578

Model:

- Shaft set consisting of: shaft chrom steel 1.4404 (SUS316L) (6), retention ring (7, 9) and washer (8)

d (mm)	Size (inch)	DN (mm)	Code
63	2	50	**161 486 899**
75	2 ½	65	**161 486 900**
90	3	80	**161 486 901**
110	4	100	**161 486 902**
140	5	125	**161 486 903**
160	6	150	**161 486 904**
225	8	200	**161 486 905**
280	10	250	**161 486 906**
315	12	300	**161 486 907**
355	14	350	**161 486 908**
400	16	400	**161 486 909**
450	18	450	**161 486 926**
500	20	500	**161 486 927**
630	24	600	**161 486 928**



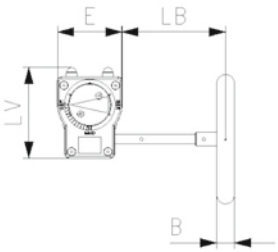
Hand lever
For Butterfly Valve Type 567/578

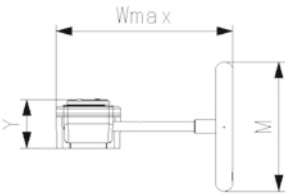
d (mm)	Size (inch)	DN (mm)	with index plate Code	with fine adjustment Code
63	2	50	**161 486 690**	**161 486 325**
75	2 ½	65	**161 486 690**	**161 486 325**
90	3	80	**161 486 690**	**161 486 325**
110	4	100	**161 486 691**	**161 486 326**
140	5	125	**161 486 691**	**161 486 326**
160	6	150	**161 486 694**	**161 486 327**
225	8	200	**161 486 695**	**161 486 328**
280	10	250	**161 486 697**	
315	12	300	**161 486 697**	



Reduction gear with handwheel
For butterfly valve type 565/567/578

- For valve actuation via a reduction gear with hand wheel. Suitable for all GF butterfly valves.
- Intermediate elements are required.
- This version is not recommended to use in outside or corrosive environment





DN (mm)	Code	Wmax (mm)	LV (mm)	Y (mm)	M (mm)	B (mm)	E (mm)	LB (mm)
50 - 200	**161 483 471**	221.0	112.3	61.2	160.0	23.0	80.0	129.5
250 - 300	**161 483 472**	246.3	130.0	68.4	200.0	24.6	100.0	134.0

Snap ring DN350-600
For butterfly valve type 567

- For fixation of profile seal in body

d (mm)	Size (inch)	DN (mm)	PP-H Code
355	14	350	**167 484 295**
400	16	400	**167 484 296**
450	18	450	**167 484 297**
500	20	500	**167 484 298**
630	24	600	**167 484 299**

Profile seal (13) DN350-600
For butterfly valve type 567

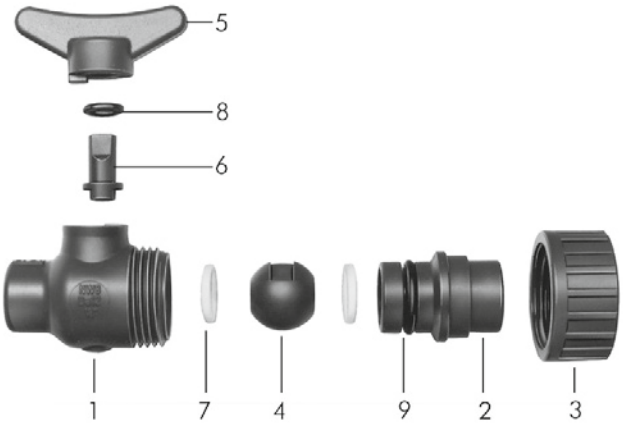
d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
355	14	350	**748 440 018**	**749 440 028**
400	16	400	**748 440 019**	**749 440 029**
450	18	450	**748 440 020**	**749 440 030**
500	20	500	**748 440 021**	**749 440 031**
630	24	600	**748 440 022**	**749 440 032**



Intermediate element for Butterfly Valve Type 567 and 578 (reduction gear)

d (mm)	DN (mm)	Code
63-90	50-80	**198 000 621**
110-140	100-125	**198 000 622**
160-225	150-200	**198 000 600**
280-315	250-300	**198 000 732**

Spare parts laboratory ball valve type 322





Ball set

Model:

- Ball seals standard in PTFE
- Ball set consisting of: ball (4), stem (6), ball- and stem seal (7-8)

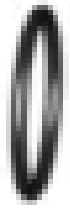
d (mm)	Inch (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code
10	⅛	6	**161 482 978**	**161 482 980**
12	¼	8	**161 482 978**	**161 482 980**



Lever

d (mm)	Inch (inch)	DN (mm)	PVC-U Code
10	⅛	6	**161 322 205**
12	¼	8	**161 322 205**





Seal set

Model:

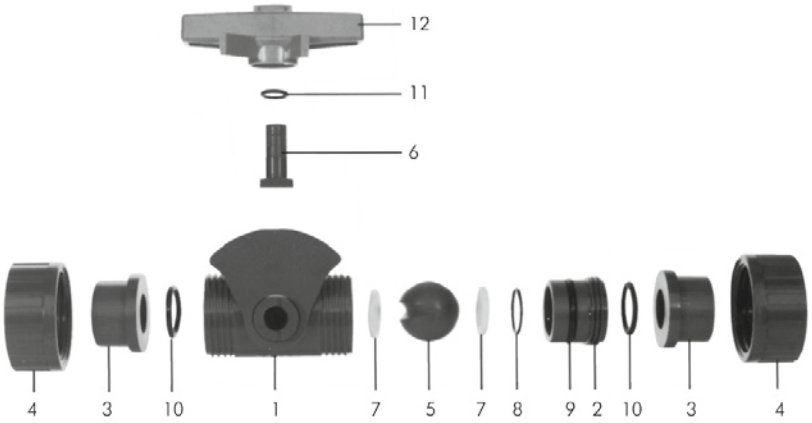
- Seal set consisting of: stem- and body seal (8-9)

d (mm)	Inch (inch)	DN (mm)	EPDM Code
10	⅛	6	**161 482 982**
12	¼	8	**161 482 982**

Valve end with socket metric

d (mm)	Inch (inch)	DN (mm)	PVC-U Code
10	⅛	6	**161 322 152**
12	¼	8	**161 322 202**

Spare parts metering ball valve type 323





Threaded bush Rc/NPT

Size (inch)	DN (mm)	PVC-U NPT Code	PVDF NPT Code
⅜	10	**161 482 389**	**175 480 727**
½	15	**161 482 390**	**175 480 728**



Threaded bush Rp

DN (mm)	Rp (inch)	PVC-U Code	PVC-C Code	ABS Code	PP-H Code
10	⅜	**161 480 550**	**163 480 832**	**169 480 120**	**167 480 166**
15	½	**161 480 551**	**163 480 833**	**169 480 121**	**167 480 167**

Spare parts ball valve type 355



Lever PP

Size (inch)	DN (mm)	blue Code
½	15	**167 481 090**
¾	20	**167 481 091**
1	25	**167 481 091**
1 ¼	32	**167 481 092**
1 ½	40	**167 481 092**
2	50	**167 481 093**

Spare parts ball valve type 354



Union nut

d (mm)	Size (inch)	DN (mm)	PVC-U Code
20	½	15	**721 690 006**
25	¾	20	**721 690 007**
32	1	25	**721 690 008**
40	1 ¼	32	**721 690 009**
50	1 ½	40	**721 690 010**
63	2	50	**721 690 011**



Face seal

d (mm)	Size (inch)	DN (mm)	EPDM Code
20	½	15	**748 410 042**
25	¾	20	**748 410 116**
32	1	25	**748 410 103**
40	1 ¼	32	**748 410 027**

Spare parts ball valve type 355

Central part

d (mm)	Size (inch)	DN (mm)	EPDM Code
20	½	15	**161 483 837**
25	¾	20	**161 483 838**
32	1	25	**161 483 839**
40	1 ¼	32	**161 483 840**
50	1 ½	40	**161 483 841**
63	2	50	**161 483 842**

Spare parts metering ball valve type 523



Central part
For ball valve type 523

Model:

- Every connecting pieces and union nuts are listed on product range industry valves
- Ball seals standard in PTFE
- Central part consisting of: body, union bush, ball, stem, ball-, backing seal, body seal, face- and stem seal, index plate, latch, position indicator, standard lever and threaded inserts stainless steel

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	PP-H EPDM Code	PP-H FKM Code
16	⅜	10	**161 485 351**	**161 485 361**	**167 485 371**	**167 485 381**
20	½	15	**161 485 353**	**161 485 363**	**167 485 373**	**167 485 383**

Spare parts shipbuilding ball valve type 547



Service housing kit
For ball valve type 547

Model:

- With integrated check valve and filter

D (mm)	Size (inch)	DN (mm)	Code
16	⅜	10	**167 547 905**



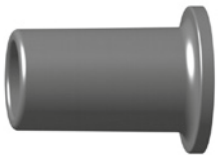
Union end fusion socket PB
For ball valve type 547

d (mm)	Size (inch)	DN (mm)	Code
16	⅜	10	**167 547 441**
20	½	15	**167 547 442**



Union end iFIT
For ball valve type 547

D (mm)	Size (inch)	DN (mm)	Code
20	½	15	**167 547 112**



Service housing end connector kit with fusion socket PB
For ball valve type 547

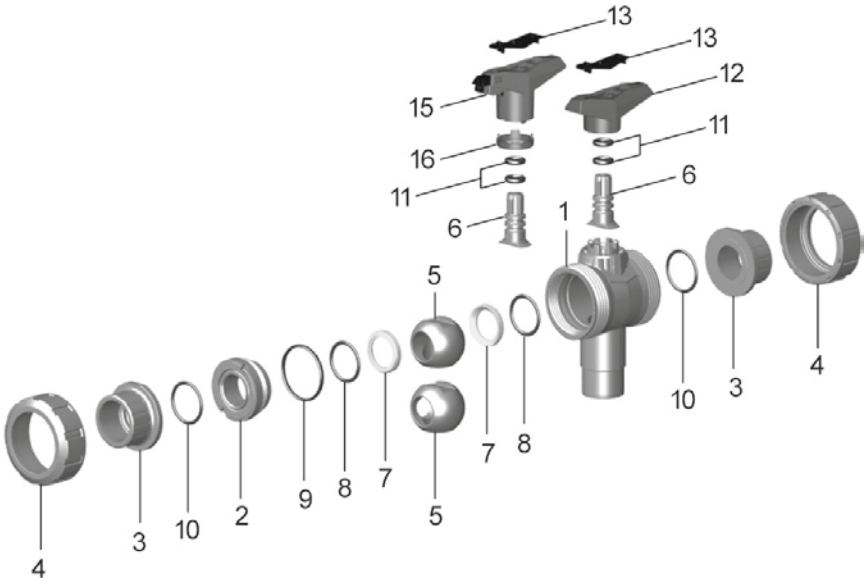
d (mm)	Size (inch)	DN (mm)	Code
16	⅜	10	**167 547 931**
20	½	15	**167 547 932**



Service housing end connector kit with iFIT connector
For ball valve type 547

d (mm)	Size (inch)	DN (mm)	Code
20	½	15	**167 547 902**

Spare parts ball valve type 543 vertical





Central part diverter ball
For ball valve type 543 Pro vertical

Model:

- Ball seals standard in PTFE
- Central part consisting of: body, union bush, ball, stem, standard lever, stainless steel threaded inserts and seal for: ball, backing, body, face and stem

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	ABS EPDM Code
16	⅜	10	**161 488 061**	**161 488 071**	**169 481 231**
20	½	15	**161 488 062**	**161 488 072**	**169 481 232**
25	¾	20	**161 488 063**	**161 488 073**	**169 481 233**
32	1	25	**161 488 064**	**161 488 074**	**169 481 234**
40	1 ¼	32	**161 488 065**	**161 488 075**	**169 481 235**
50	1 ½	40	**161 488 066**	**161 488 076**	**169 481 236**
63	2	50	**161 488 067**	**161 488 077**	**169 481 237**



Central part L-port
For ball valve type 543 Pro vertical

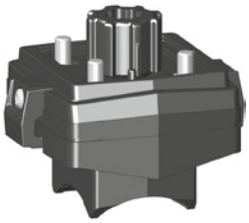
Model:

- Ball seals standard in PTFE
- Central part consisting of: body, union bush, ball, stem, standard lever, stainless steel threaded inserts and seal for: ball, backing, body, face and stem
- Every connecting pieces and union nuts are listed on product range industry valves

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	ABS EPDM Code
16	⅜	10	**161 488 041**	**161 488 051**	**169 481 221**
20	⅜	15	**161 488 042**	**161 488 052**	**169 481 222**
25	¾	20	**161 488 043**	**161 488 053**	**169 481 223**

table continued on the next page

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	ABS EPDM Code
32	1	25	**161 488 044**	**161 488 054**	**169 481 224**
40	1 ¼	32	**161 488 045**	**161 488 055**	**169 481 225**
50	1 ½	40	**161 488 046**	**161 488 056**	**169 481 226**
63	2	50	**161 488 047**	**161 488 057**	**169 481 227**



Assembly kit

Model:

- Intermediate element for ball valve type 543 vertical and electric or pneumatic actuators EA21; PA11/21
- Including screws

d (mm)	Inch (inch)	DN (mm)	Code
16 - 20	⅜ - ½	10 - 15	**167 484 945**
25 - 32	¾ - 1	20 - 25	**167 484 946**
40 - 50	1 ¼ - 1 ½	32 - 40	**167 484 947**
63	2	50	**167 484 948**



Face seal

Model:

- Face seal no. 10

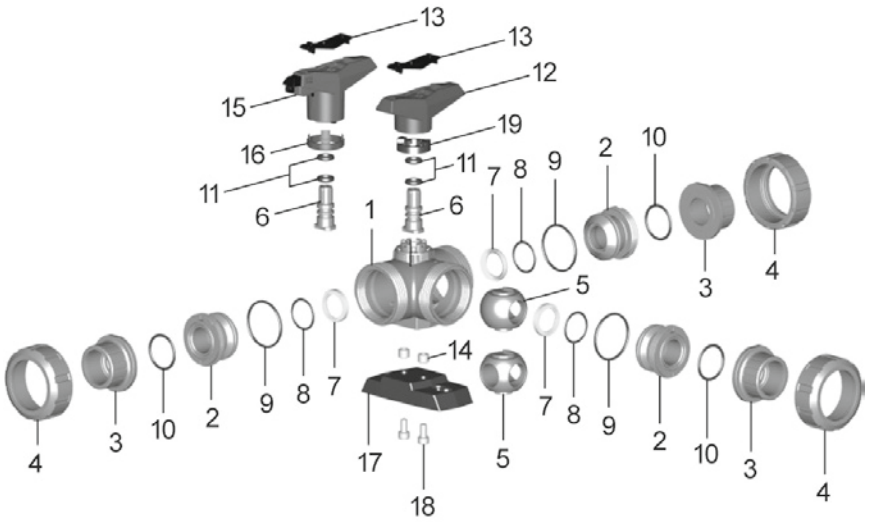
d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	⅜	10	**748 410 059**	**749 410 059**
20	½	15	**748 410 059**	**749 410 059**
25	¾	20	**748 410 106**	**749 410 106**
32	1	25	**748 410 151**	**749 410 151**
40	1 ¼	32	**748 410 062**	**749 410 062**
50	1 ½	40	**748 410 003**	**749 410 003**
63	2	50	**748 410 231**	**749 410 231**



Lever

d (mm)	Size (inch)	DN (mm)	Standard lever L-port red Code	Standard lever diverter ball red Code	Multifunctional-lever L-port red Code	Multifunctional-lever diverter ball red Code
16	⅜	10	**167 484 688**	**167 484 788**	**167 484 642**	**167 484 742**
20	½	15	**167 484 688**	**167 484 788**	**167 484 642**	**167 484 742**
25	¾	20	**167 484 689**	**167 484 789**	**167 484 643**	**167 484 743**
32	1	25	**167 484 690**	**167 484 790**	**167 484 644**	**167 484 744**
40	1 ¼	32	**167 484 691**	**167 484 791**	**167 484 645**	**167 484 745**
50	1 ½	40	**167 484 692**	**167 484 792**	**167 484 646**	**167 484 746**
63	2	50	**167 484 693**	**167 484 793**	**167 484 647**	**167 484 747**

Spare parts ball valve type 543 horizontal





Central part L-port
For ball valve type 543 Pro horizontal

Model:

- Ball seals standard in PTFE
- Central part consisting of: body, union bush, ball, stem, standard lever, stainless steel threaded inserts and seal for: ball, backing, body, face and stem
- Every connecting pieces and union nuts are listed on product range industry valves

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code
16	⅜	10	161 488 002	161 488 012	163 481 902	163 481 912	169 481 202
20	½	15	161 488 002	161 488 012	163 481 902	163 481 912	169 481 202
25	¾	20	161 488 003	161 488 013	163 481 903	163 481 913	169 481 203
32	1	25	161 488 004	161 488 014	163 481 904	163 481 914	169 481 204
40	1 ¼	32	161 488 005	161 488 015	163 481 905	163 481 915	169 481 205
50	1 ½	40	161 488 006	161 488 016	163 481 906	163 481 916	169 481 206
63	2	50	161 488 007	161 488 017	163 481 907	163 481 917	169 481 207

d (mm)	Size (inch)	DN (mm)	PP-H EPDM Code	PP-H FKM Code	PVDF FKM Code
16	⅜	10	167 484 802	167 484 812	175 483 602
20	½	15	167 484 802	167 484 812	175 483 602
25	¾	20	167 484 803	167 484 813	175 483 603
32	1	25	167 484 804	167 484 814	175 483 604
40	1 ¼	32	167 484 805	167 484 815	175 483 605
50	1 ½	40	167 484 806	167 484 816	175 483 606
63	2	50	167 484 807	167 484 817	175 483 607



Central part T-port
For ball valve type 543 Pro horizontal

Model:

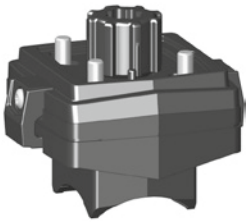
- Ball seals standard in PTFE
- Central part consisting of: body, union bush, ball, stem, standard lever, stainless steel threaded inserts and seal for: ball, backing, body, face and stem

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code
16	⅜	10	161 488 022	161 488 032	163 481 922	163 481 932	169 481 212
20	½	15	161 488 022	161 488 032	163 481 922	163 481 932	169 481 212
25	¾	20	161 488 023	161 488 033	163 481 923	163 481 933	169 481 213

table continued on the next page

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code
32	1	25	**161 488 024**	**161 488 034**	**163 481 924**	**163 481 934**	**169 481 214**
40	1 ¼	32	**161 488 025**	**161 488 035**	**163 481 925**	**163 481 935**	**169 481 215**
50	1 ½	40	**161 488 026**	**161 488 036**	**163 481 926**	**163 481 936**	**169 481 216**
63	2	50	**161 488 027**	**161 488 037**	**163 481 927**	**163 481 937**	**169 481 217**

d (mm)	Size (inch)	DN (mm)	PP-H EPDM Code	PP-H FKM Code	PVDF FKM Code
16	⅜	10	**167 484 822**	**167 484 832**	**175 483 612**
20	½	15	**167 484 822**	**167 484 832**	**175 483 612**
25	¾	20	**167 484 823**	**167 484 833**	**175 483 613**
32	1	25	**167 484 824**	**167 484 834**	**175 483 614**
40	1 ¼	32	**167 484 825**	**167 484 835**	**175 483 615**
50	1 ½	40	**167 484 826**	**167 484 836**	**175 483 616**
63	2	50	**167 484 827**	**167 484 837**	**175 483 617**

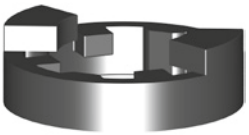


Assembly kit

Model:

- Intermediate element for ball valve type 543 horizontal and electric or pneumatic actuators EA21; PA11/21
- Including screws and position indicator for actuators

d (mm)	Inch (inch)	DN (mm)	Code
16 - 20	⅜ - ½	10 - 15	**167 484 941**
25 - 32	¾ - 1	20 - 25	**167 484 942**
40 - 50	1 ¼ - 1 ½	32 - 40	**167 484 943**
63	2	50	**167 484 944**



Turn limiter 90°

d (mm)	Size (inch)	DN (mm)	Code
16	⅜	10	**167 482 479**
20	½	15	**167 482 479**
25	¾	20	**167 482 480**
32	1	25	**167 482 480**
40	1 ¼	32	**167 482 481**
50	1 ½	40	**167 482 481**
63	2	50	**167 482 482**



Face seal

Model:

- Face seal no. 10

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	⅜	10	**748 410 059**	**749 410 059**
20	½	15	**748 410 059**	**749 410 059**
25	¾	20	**748 410 106**	**749 410 106**
32	1	25	**748 410 151**	**749 410 151**
40	1 ¼	32	**748 410 062**	**749 410 062**
63	2	50	**748 410 231**	**749 410 231**
75	2 ½	65	**748 410 119**	**749 410 119**
90	3	80	**748 410 023**	**749 410 023**
110	4	100	**748 410 254**	**749 410 254**



Lever

d (mm)	Size (inch)	DN (mm)
16	⅜	10
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50

d (mm)	Standard lever L-port red Code	Standard lever L-port black Code	Standard lever T-port red Code	Standard lever T-port black Code	Multifunctional-lever L-port red Code
16	**167 484 488**	**167 484 376**	**167 484 588**	**167 484 576**	**167 484 442**
20	**167 484 488**	**167 484 376**	**167 484 588**	**167 484 576**	**167 484 442**
25	**167 484 489**	**167 484 377**	**167 484 589**	**167 484 577**	**167 484 443**
32	**167 484 490**	**167 484 378**	**167 484 590**	**167 484 578**	**167 484 444**
40	**167 484 491**	**167 484 379**	**167 484 591**	**167 484 579**	**167 484 445**
50	**167 484 492**	**167 484 380**	**167 484 592**	**167 484 580**	**167 484 446**
63	**167 484 493**	**167 484 381**	**167 484 593**	**167 484 581**	**167 484 447**

d (mm)	Multifunctional-lever T-port red Code
16	**167 484 542**
20	**167 484 542**
25	**167 484 543**
32	**167 484 544**
40	**167 484 545**
50	**167 484 546**
63	**167 484 547**



Ball set L-port

Model:

- Ball set consisting of: lever (12), ball (5), stem (6), ball-, backing-, body- and stem seal (7-9,11)
- Ball seals standard in PTFE

d (mm)	Size (inch)	DN (mm)
16	⅜	10
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50

d (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code	PP-H EPDM Code
16	**161 488 162**	**161 488 172**	**163 481 982**	**163 481 992**	**169 481 282**	**167 484 882**
20	**161 488 162**	**161 488 172**	**163 481 982**	**163 481 992**	**169 481 282**	**167 484 882**
25	**161 488 163**	**161 488 173**	**163 481 983**	**163 481 993**	**169 481 283**	**167 484 883**
32	**161 488 164**	**161 488 174**	**163 481 984**	**163 481 994**	**169 481 284**	**167 484 884**
40	**161 488 165**	**161 488 175**	**163 481 985**	**163 481 995**	**169 481 285**	**167 484 885**
50	**161 488 166**	**161 488 176**	**163 481 986**	**163 481 996**	**169 481 286**	**167 484 886**
63	**161 488 167**	**161 488 177**	**163 481 987**	**163 481 997**	**169 481 287**	**167 484 887**

table continued on the next page

d (mm)	PP-H FKM Code	PVDF FKM Code
16	**167 484 892**	**175 483 642**
20	**167 484 892**	**175 483 642**
25	**167 484 893**	**175 483 643**
32	**167 484 894**	**175 483 644**
40	**167 484 895**	**175 483 645**
50	**167 484 896**	**175 483 646**
63	**167 484 897**	**175 483 647**

Spare parts ball valve type 370



Lever

d-d (mm)	Inch (inch)	DN-DN (mm)	PVC-U orange Code	PVC-U black Code
- - 75	2 ½	- - 65	**161 480 763**	**161 481 260**
- - 90	3	- - 80	**161 480 764**	**161 481 261**
110 - 160	4 - 6	100 - 150	**161 480 420**	**161 481 262**



Seal set

Model:

- Seal set consisting of: backing-, body- and stem seal (3-5)

d-d (mm)	Inch (inch)	DN-DN (mm)	EPDM Code	FKM Code
- - 75	2 ½	- - 65		**161 482 974**
- - 90	3	- - 80	**161 482 969**	**161 482 975**
110 - 160	4 - 6	100 - 150	**161 482 970**	**161 482 976**



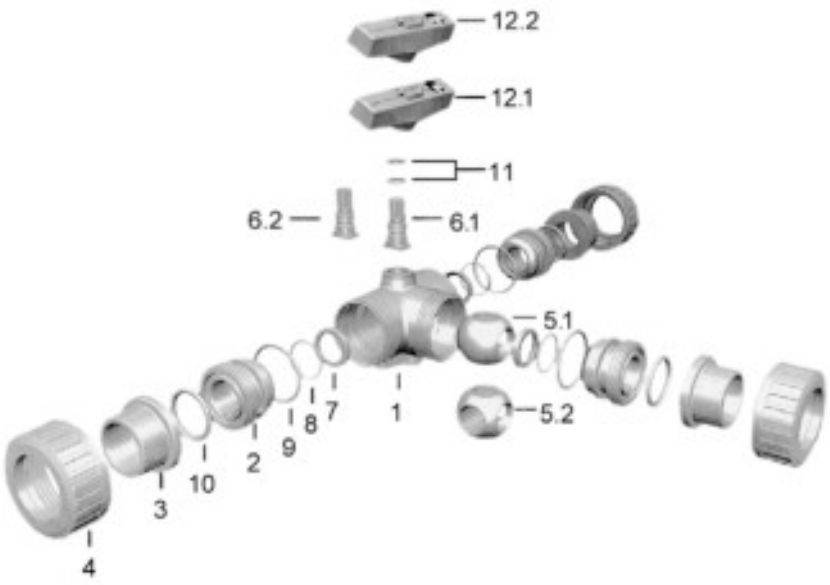
Face seal

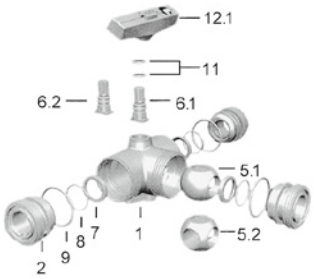
Model:

- Face seal no. 9

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
75	2 ½	65	**748 410 119**	**749 410 119**
90	3	80	**748 410 112**	**749 410 112**
110	4	100	**748 410 099**	**749 410 099**

Spare parts ball valve type 343 horizontal





Central part T-port

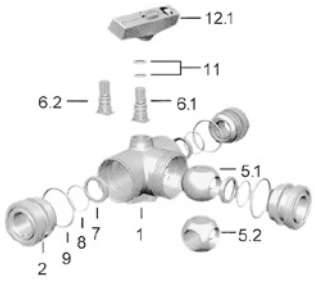
Model:

- Central part consisting of: lever (12.1), body (1), union bush (2), ball (5.2), stem (6.2), ball-, backing-, body- and stem seal (7-9,11)
- Ball seals standard in PTFE

d (mm)	Size (inch)	DN (mm)
16	⅜	10
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50

d (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code	PP-H EPDM Code
16	**161 490 461**	**161 490 472**	**163 480 935**	**163 480 946**	**169 480 490**	**167 482 159**
20	**161 490 461**	**161 490 472**	**163 480 935**	**163 480 946**	**169 480 490**	**167 482 159**
25	**161 490 462**	**161 490 473**	**163 480 936**	**163 480 947**	**169 480 491**	**167 482 160**
32	**161 490 463**	**161 490 474**	**163 480 937**	**163 480 948**	**169 480 492**	**167 482 161**
40	**161 490 464**	**161 490 475**	**163 480 938**	**163 480 949**	**169 480 493**	**167 482 162**
50	**161 490 465**	**161 490 476**	**163 480 939**	**163 480 950**	**169 480 494**	**167 482 163**
63	**161 490 466**	**161 490 477**	**163 480 940**	**163 480 951**	**169 480 495**	**167 482 164**

d (mm)	PP-H FKM Code	PVDF FKM Code
16	**167 482 170**	**175 482 620**
20	**167 482 170**	**175 482 620**
25	**167 482 171**	**175 482 621**
32	**167 482 172**	**175 482 622**
40	**167 482 173**	**175 482 623**
50	**167 482 174**	**175 482 624**
63	**167 482 175**	**175 482 625**



Central part L-port

Model:

- Ball seals standard in PTFE
- Central part consisting of: lever (12.1), body (1), union bush (2), ball (5.1), stem (6.1), ball-, backing-, body- and stem seal (7-9,11)

d (mm)	Size (inch)	DN (mm)
16	⅜	10
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50

d (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code	PP-H EPDM Code
16	**161 490 439**	**161 490 450**	**163 480 913**	**163 480 924**	**169 480 468**	**167 482 137**
20	**161 490 439**	**161 490 450**	**163 480 913**	**163 480 924**	**169 480 468**	**167 482 137**
25	**161 490 440**	**161 490 451**	**163 480 914**	**163 480 925**	**169 480 469**	**167 482 138**
32	**161 490 441**	**161 490 452**	**163 480 915**	**163 480 926**	**169 480 470**	**167 482 139**
40	**161 490 442**	**161 490 453**	**163 480 916**	**163 480 927**	**169 480 471**	**167 482 140**
50	**161 490 443**	**161 490 454**	**163 480 917**	**163 480 928**	**169 480 472**	**167 482 141**
63	**161 490 444**	**161 490 455**	**163 480 918**	**163 480 929**	**169 480 473**	**167 482 142**

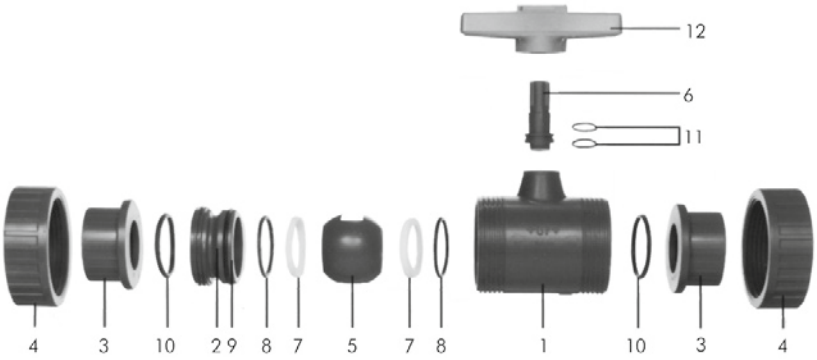
d (mm)	PP-H FKM Code	PVDF FKM Code
16	**167 482 148**	**175 482 593**
20	**167 482 148**	**175 482 593**
25	**167 482 149**	**175 482 594**
32	**167 482 150**	**175 482 595**
40	**167 482 151**	**175 482 596**
50	**167 482 152**	**175 482 597**
63	**167 482 153**	**175 482 598**

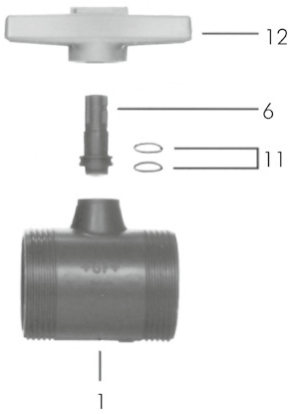


Lever

d (mm)	Size (inch)	DN (mm)	L-port Code	T-port Code
16	⅜	10	**161 482 151**	**161 486 175**
20	½	15	**161 482 151**	**161 486 175**
25	¾	20	**161 482 152**	**161 486 176**
32	1	25	**161 482 153**	**161 486 177**
40	1 ¼	32	**161 482 154**	**161 486 178**
50	1 ½	40	**161 482 155**	**161 486 179**
63	2	50	**161 482 156**	**161 486 180**

Spare parts ball valve type 346





Central part

Model:

- Ball seals standard in PTFE
- Central part consisting of: lever red (12), body (1), union bush (2), ball (5), stem (6), ball-, backing-, body- and stem seal (7-9,11)

d (mm)	Size (inch)	DN (mm)
16	⅜	10
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50

d (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code	PP-H EPDM Code
16	**161 483 930**	**161 483 940**	**163 480 620**	**163 480 630**	**169 480 301**	**167 480 806**
20	**161 483 931**	**161 483 941**	**163 480 621**	**163 480 631**	**169 480 301**	**167 480 807**
25	**161 483 932**	**161 483 942**	**163 480 622**	**163 480 632**	**169 480 302**	**167 480 808**
32	**161 483 933**	**161 483 943**	**163 480 623**	**163 480 633**	**169 480 303**	**167 480 809**
40	**161 483 934**	**161 483 944**	**163 480 624**	**163 480 634**	**169 480 304**	**167 480 810**
50	**161 483 935**	**161 483 945**	**163 480 625**	**163 480 635**	**169 480 305**	**167 480 811**
63	**161 483 936**	**161 483 946**	**163 480 626**	**163 480 636**	**169 480 306**	**167 480 812**

d (mm)	PP-H FKM Code	PVDF FKM Code
16	**167 480 813**	**175 480 825**
20	**167 480 814**	**175 480 826**
25	**167 480 815**	**175 480 827**
32	**167 480 816**	**175 480 828**
40	**167 480 817**	**175 480 829**
50	**167 480 818**	**175 480 830**
63	**167 480 819**	**175 480 831**



Lever

d (mm)	Size (inch)	DN (mm)	PVC-U orange Code	ASA black Code
16	⅜	10	**161 480 725**	**160 480 115**
20	½	15	**161 480 725**	**160 480 115**
25	¾	20	**161 480 726**	**160 480 116**

table continued on the next page

d (mm)	Size (inch)	DN (mm)	PVC-U orange Code	ASA black Code
32	1	25	**161 480 727**	**160 480 117**
40	1 ¼	32	**161 480 728**	**160 480 118**
50	1 ½	40	**161 480 729**	**160 480 119**
63	2	50	**161 480 730**	**160 480 120**



Face seal

Model:

- Face seal no. 10

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	⅜	10	**748 410 042**	**749 410 042**
20	½	15	**748 410 042**	**749 410 042**
25	¾	20	**748 410 116**	**749 410 116**
32	1	25	**748 410 103**	**749 410 103**
40	1 ¼	32	**748 410 027**	**749 410 027**

Spare parts ball valve type 546





Central part
For ball valve type 546 Pro

Model:

- Every connecting pieces and union nuts are listed on product range industry valves
- Ball seals standard in PTFE
- Central part consisting of: body (1), union bush (2), ball (5), stem (6), ball-, backing-, body-, face- and stem seal (7-11), standard lever (12) and threaded inserts stainless steel (14)

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code
16	⅜	10	**161 486 151**	**161 486 163**	**163 481 251**	**163 481 263**	**169 480 751**
20	½	15	**161 486 151**	**161 486 163**	**163 481 251**	**163 481 263**	**169 480 751**
25	¾	20	**161 486 152**	**161 486 164**	**163 481 252**	**163 481 264**	**169 480 752**
32	1	25	**161 486 153**	**161 486 165**	**163 481 253**	**163 481 265**	**169 480 753**
40	1 ¼	32	**161 486 154**	**161 486 166**	**163 481 254**	**163 481 266**	**169 480 754**
50	1 ½	40	**161 486 155**	**161 486 167**	**163 481 255**	**163 481 267**	**169 480 755**

table continued on the next page

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code
63	2	50	161 486 156	161 486 168	163 481 256	163 481 268	169 480 756
75	2 ½	65	161 486 157	161 486 169	163 481 257	163 481 269	169 480 757
90	3	80	161 486 158	161 486 170	163 481 258	163 481 270	169 480 758
110	4	100	161 486 159	161 486 171	163 481 259	163 481 271	169 480 759

d (mm)	Size (inch)	DN (mm)	PP-H EPDM Code	PP-H FKM Code	PVDF FKM Code
16	⅜	10	167 482 876	167 482 888	175 482 963
20	½	15	167 482 876	167 482 888	175 482 963
25	¾	20	167 482 877	167 482 889	175 482 964
32	1	25	167 482 878	167 482 890	175 482 965
40	1 ¼	32	167 482 879	167 482 891	175 482 966
50	1 ½	40	167 482 880	167 482 892	175 482 967
63	2	50	167 482 881	167 482 893	175 482 968
75	2 ½	65	167 482 882	167 482 894	175 482 969
90	3	80	167 482 883	167 482 895	175 482 970
110	4	100	167 482 884	167 482 896	175 482 971









Lever
For ball valve type 546, check valve type 561/562, ventilating & bleed valve 591/595

d (mm)	Size (inch)	DN (mm)	Standard lever red Code	Standard lever black Code	Multifunctional lever Code
16	⅜	10	167 484 088	167 484 076	167 484 100
20	½	15	167 484 088	167 484 076	167 484 100
25	¾	20	167 484 089	167 484 077	167 484 101
32	1	25	167 484 090	167 484 078	167 484 102
40	1 ¼	32	167 484 091	167 484 079	167 484 103
50	1 ½	40	167 484 092	167 484 080	167 484 104
63	2	50	167 484 093	167 484 081	167 484 105
75	2 ½	65	167 484 094	167 484 082	161 486 689
90	3	80	167 484 095	167 484 083	161 486 690
110	4	100	167 484 096	167 484 084	161 486 691



Face seal

Model:
- Face seal no. 10

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	⅜	10	748 410 059	749 410 059
20	½	15	748 410 059	749 410 059
25	¾	20	748 410 106	749 410 106
32	1	25	748 410 151	749 410 151
40	1 ¼	32	748 410 062	749 410 062
63	2	50	748 410 231	749 410 231
75	2 ½	65	748 410 119	749 410 119
90	3	80	748 410 023	749 410 023
110	4	100	748 410 254	749 410 254



Seal set
For ball valve type 546 and linear ball valve

Model:

- Seal set consisting of: backing-, body-, face- and stem seal (8-11)

d (mm)	Size (inch)	DN (mm)	DN (mm)	EPDM Code	FKM Code	KALREZ Code
16 - 20	½	15	10 - 15	**161 486 400**	**161 486 410**	**161 488 280**
25	¾	20	20	**161 486 401**	**161 486 411**	**161 488 281**
32	1	25	25	**161 486 402**	**161 486 412**	**161 488 282**
40	1 ¼	32	32	**161 486 403**	**161 486 413**	**161 488 283**
50	1 ½	40	40	**161 486 404**	**161 486 414**	**161 488 284**
63	2	50	50	**161 486 405**	**161 486 415**	**161 488 285**
75	2 ½	65	65	**161 486 406**	**161 486 416**	
90	3	80	80	**161 486 407**	**161 486 417**	
110	4	100	100	**161 486 408**	**161 486 418**	



Ball set
For ball valve type 546 Pro

Model:

- Ball seals standard in PTFE
- Ball set consisting of: ball (5), stem (6), ball-, backing-, body- and stem seal (7-9,11)

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code
16	⅜	10	**161 486 375**	**161 486 385**	**163 481 375**	**163 481 385**	**169 480 900**
20	½	15	**161 486 375**	**161 486 385**	**163 481 375**	**163 481 385**	**169 480 900**
25	¾	20	**161 486 376**	**161 486 386**	**163 481 376**	**163 481 386**	**169 480 901**
32	1	25	**161 486 377**	**161 486 387**	**163 481 377**	**163 481 387**	**169 480 902**
40	1 ¼	32	**161 486 378**	**161 486 388**	**163 481 378**	**163 481 388**	**169 480 903**
50	1 ½	40	**161 486 379**	**161 486 389**	**163 481 379**	**163 481 389**	**169 480 904**
63	2	50	**161 486 380**	**161 486 390**	**163 481 380**	**163 481 390**	**169 480 905**
75	2 ½	65	**161 486 381**	**161 486 391**	**163 481 381**	**163 481 391**	**169 480 906**
90	3	80	**161 486 382**	**161 486 392**	**163 481 382**	**163 481 392**	**169 480 907**
110	4	100	**161 486 383**	**161 486 393**	**163 481 383**	**163 481 393**	**169 480 908**

d (mm)	Size (inch)	DN (mm)	PP-H EPDM Code	PP-H FKM Code	PVDF FKM Code
16	⅜	10	**167 484 125**	**167 484 135**	**175 483 275**
20	½	15	**167 484 125**	**167 484 135**	**175 483 275**
25	¾	20	**167 484 126**	**167 484 136**	**175 483 276**
32	1	25	**167 484 127**	**167 484 137**	**175 483 277**
40	1 ¼	32	**167 484 128**	**167 484 138**	**175 483 278**
50	1 ½	40	**167 484 129**	**167 484 139**	**175 483 279**
63	2	50	**167 484 130**	**167 484 140**	**175 483 280**
75	2 ½	65	**167 484 131**	**167 484 141**	**175 483 281**
90	3	80	**167 484 132**	**167 484 142**	**175 483 282**
110	4	100	**167 484 133**	**167 484 143**	**175 483 283**

Spare parts for valve body type 519



Valve body with butt fusion spigots
For diaphragm valve type 519

d (mm)	Size (inch)	PP-H Code	PP-Natur Code	PVDF HP Code	Weight (kg)
20 - 20	½	**167 485 911**	**168 480 601**	**180 001 101**	0.171
25 - 20	¾	**167 485 912**	**168 480 602**	**180 001 102**	0.236
25 - 25	¾	**167 485 913**	**168 480 603**	**180 001 103**	0.239
32 - 20	1	**167 485 914**	**168 480 604**	**180 001 104**	0.289
32 - 25	1	**167 485 915**	**168 480 605**	**180 001 105**	0.293
32 - 32	1	**167 485 916**	**168 480 606**	**180 001 106**	0.334
40 - 20	1 ¼	**167 485 917**	**168 480 607**	**180 001 107**	0.388
40 - 25	1 ¼			**180 001 108**	0.392
40 - 32	1 ¼			**180 001 109**	0.410
40 - 40	1 ¼			**180 001 110**	0.439
50 - 20	1 ½	**167 485 922**	**168 480 611**	**180 001 111**	0.408
50 - 25	1 ½	**167 485 923**	**168 480 612**	**180 001 112**	0.478
50 - 32	1 ½	**167 485 924**	**168 480 613**	**180 001 113**	0.483
50 - 40	1 ½			**180 001 114**	1.101
50 - 50	1 ½			**180 001 115**	1.111
63 - 20	2	**167 485 927**	**168 480 616**	**180 001 116**	0.485
63 - 25	2	**167 485 928**	**168 480 617**	**180 001 117**	0.563
63 - 32	2	**167 485 929**	**168 480 618**	**180 001 118**	0.569
63 - 40	2			**180 001 119**	1.278
63 - 50	2			**180 001 120**	1.343
63 - 63	2			**180 001 121**	1.356
90 - 25	3			**180 001 126**	0.855
90 - 32	3			**180 001 127**	0.871
90 - 50	3			**180 001 128**	1.796
90 - 63	3			**180 001 129**	1.824
110 - 20	4			**180 001 130**	1.118
110 - 25	4			**180 001 131**	1.124
110 - 32	4			**180 001 132**	1.141
110 - 50	4			**180 001 133**	2.212
110 - 63	4			**180 001 134**	2.242

Spare parts for valve body type 515

Valve body with spigot ends
For diaphragm valve type 515



d (mm)	DN (mm)	Size (inch)	PVC-U solvent cement spigot Code	Weight (kg)
20	15	½	**161 492 072**	0.115
25	20	¾	**161 492 073**	0.183
32	25	1	**161 492 074**	0.246
40	32	1 ¼	**161 492 075**	0.379
50	40	1 ½	**161 492 076**	0.602
63	50	2	**161 492 077**	1.055



d (mm)	PVC-C solvent cement spigot Code	ABS solvent cement spigot Code	PP-H socket fusion spigot Code	PP-H butt fusion spigot IR Code	PP-N butt fusion spigot IR Code	PVDF socket fusion spigot Code
20	**163 482 062**	**169 481 862**	**167 483 342**	**167 483 882**	**168 480 462**	**175 483 692**
25	**163 482 063**	**169 481 863**	**167 483 343**	**167 483 883**	**168 480 463**	**175 483 693**
32	**163 482 064**	**169 481 864**	**167 483 344**	**167 483 884**	**168 480 464**	**175 483 694**
40	**163 482 065**	**169 481 865**	**167 483 345**	**167 483 885**	**168 480 465**	**175 483 695**
50	**163 482 066**	**169 481 866**	**167 483 346**	**167 483 886**	**168 480 466**	**175 483 696**
63	**163 482 067**	**169 481 867**	**167 483 347**	**167 483 887**	**168 480 467**	**175 483 697**



d (mm)	PVDF butt fusion spigot IR Code	PVDF HP butt fusion spigot IR Code
20	**175 483 742**	**180 001 012**
25	**175 483 743**	**180 001 013**
32	**175 483 744**	**180 001 014**
40	**175 483 745**	**180 001 015**
50	**175 483 746**	**180 001 016**
63	**175 483 747**	**180 001 017**



Mounting Tool type 604/605

Model:

- Hook wrench for easy opening & maintenance

Code	Weight (kg)
700 278 354	0.41

Spare parts for automatic valves

Diastar Six/Ten/Sixteen





Pneumatic Actuators
For pneumatic actuated diaphragm valve type DIASTAR Six/Ten/Ten Plus/Sixteen

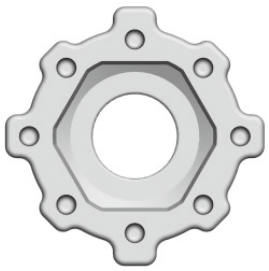
d (mm)	Size (inch)	DN (mm)
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50

d (mm)	DIASTAR Six FC Code	DIASTAR Ten FC Code	Diastar Ten + FC Code	Diastar Sixteen FC Code	Diastar Ten FO Code	Diastar Ten DA Code
20	**198 151 762**	**198 151 772**	**198 153 062**	**198 151 782**	**198 151 792**	**198 151 802**
25	**198 151 763**	**198 151 773**	**198 153 063**	**198 151 783**	**198 151 793**	**198 151 803**
32	**198 151 764**	**198 151 774**	**198 153 064**	**198 151 784**	**198 151 794**	**198 151 804**
40	**198 151 765**	**198 151 775**	**198 153 065**	**198 151 785**	**198 151 795**	**198 151 805**
50	**198 151 766**	**198 151 776**	**198 153 066**	**198 151 786**	**198 151 796**	**198 151 806**
63	**198 151 767**	**198 151 777**	**198 153 067**	**198 151 787**	**198 151 797**	**198 151 807**



Indicator cap
For pneumatic actuated diaphragm valve/ DIASTAR

Size (mm)	Code
1-2	**198 806 773**
3-5	**198 806 774**



Compressor set
For DIASTAR Ten FO/DA

Model:

- Incl. diaphragm holder

d (mm)	Inch (inch)	DN (mm)	Code
20	1/2	15	**198 000 872**
25	3/4	20	**198 000 873**
32	1	25	**198 000 874**
40	1 1/4	32	**198 000 875**
50	1 1/2	40	**198 000 876**
63	2	50	**198 000 877**



Seal set
For pneumatic actuated diaphragm valves type DIASTAR Six/Ten/Ten Plus/Sixteen

Model:

- Spindle seal and piston seal

DN (mm)	Diastar Ten Code
15	**198 000 881**
20/25	**198 000 882**
32	**198 000 883**
40/50	**198 000 884**

Spare parts for hand-operated valves Type 514/515/517/519





Bonnet complete
For diaphragm valve type 514/515/517/519

Model:

- Incl. compressor
- Diaphragm is not included

d (mm)	Size (inch)	DN (mm)	Standard configuration PN10 Code	For pressure tight housing PN10 Code	Standard configuration PN16 Code	For pressure tight housing PN16 Code
20	½	15	**198 151 742**	**198 151 752**	**198 151 842**	**198 151 852**
25	¾	20	**198 151 743**	**198 151 753**	**198 151 843**	**198 151 853**
32	1	25	**198 151 744**	**198 151 754**	**198 151 844**	**198 151 854**
40	1 ¼	32	**198 151 745**	**198 151 755**	**198 151 845**	**198 151 855**
50	1 ½	40	**198 151 746**	**198 151 756**	**198 151 846**	**198 151 856**
63	2	50	**198 151 747**	**198 151 757**	**198 151 847**	**198 151 857**



Spindle assembly
For diaphragm valve type 514/515/517/519

Model:

- Incl. compressor
- Position indicator is not included

DN-DN (mm)	Code
15 - 20	**198 204 327**
25 - 32	**198 204 328**
40 - 50	**198 204 329**



Position indicator
For diaphragm valve type 514/515/517/519

d (mm)	Size (inch)	DN (mm)	Code
20	½	15	**167 484 992**
25	¾	20	**167 484 993**
32	1	25	**167 484 994**
40	1 ¼	32	**167 484 995**
50	1 ½	40	**167 484 996**
63	2	50	**167 484 997**



Hand wheel
For diaphragm valve type 514/515/517/519

Model:

- Without position indicator

DN (mm)	Code
15 - 20	**198 204 162**
25 - 32	**198 204 164**
40 - 50	**198 104 166**



Seal set
For diaphragm valve type 514/515/517/519

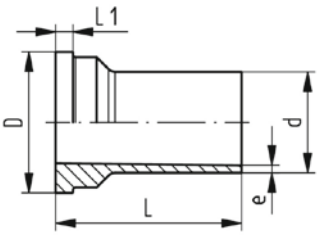
Model:

- For manual valve - pressure tight housing
- Incl. position indicator

d (mm)	Size (inch)	DN (mm)	EPDM Code
20	½	15	**198 000 892**
25	¾	20	**198 000 893**
32	1	25	**198 000 894**
40	1 ¼	32	**198 000 895**
50	1 ½	40	**198 000 896**
63	2	50	**198 000 897**

Spare parts for valve body type 514





SYGEF Standard Union end
SDR21/PN16

Model:

- Material: PVDF

d (mm)	DN (mm)	SDR	FM	PVDF Code	D (mm)	L (mm)	L1 (mm)	e (mm)
20	15	21	BCF, IR	**735 608 606**	30	53	5	1.9
25	20	21	BCF, IR	**735 608 607**	39	56	5	1.9
32	25	21	BCF, IR	**735 608 608**	45	59	6	2.4
40	32	21	BCF, IR	**735 608 609**	57	62	6	2.4
50	40	21	BCF, IR	**735 608 610**	63	65	7	3.0
63	50	21	BCF, IR	**735 608 611**	78	68	8	3.0
75	65	21	BCF, IR	**735 608 612**	101	66	9	3.6
90	80	21	BCF, IR	**735 608 613**	101	65	9	4.3
110	100	21	BCF, IR	**735 608 614**	121	65	10	5.3



Union end PVC-U Rc
for diaphragm valves type 514/DIASTAR, pressure regulating valves type 582/586 and variable area flow meters type 123/335/350 (6)

DN (mm)	d (mm)	Size (inch)	PVC-U Rc Code
15	20	½	**721 605 606**
20	25	¾	**721 605 607**
25	32	1	**721 605 608**
32	40	1 ¼	**721 605 609**
40	50	1 ½	**721 605 610**
50	63	2	**721 605 611**



Valve body with true union
For diaphragm valve type 514

Model:

- Without connection parts

d (mm)	Size (inch)	DN (mm)	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code
20	½	15	161 492 062	163 482 052	169 481 322	167 483 522	175 483 682
25	¾	20	161 492 063	163 482 053	169 481 323	167 483 523	175 483 683
32	1	25	161 492 064	163 482 054	169 481 334	167 483 524	175 483 684
40	1 ¼	32	161 492 065	163 482 055	169 481 325	167 483 525	175 483 685
50	1 ½	40	161 492 066	163 482 056	169 481 326	167 483 526	175 483 686
63	2	50	161 492 067	163 482 057	169 481 327	167 483 527	175 483 687

d (mm)	Size (inch)	DN (mm)	PVDF HP Code
20	½	15	180 001 002
25	¾	20	180 001 003
32	1	25	180 001 004
40	1 ¼	32	180 001 005
50	1 ½	40	180 001 006
63	2	50	180 001 007

Special wrench for DV

d (mm)	DN (mm)	Code
20	15	198 154 012
25	20	198 154 013
32	25	198 154 014
40	32	198 154 015
50	40	198 154 016
63	50	198 154 017



Diaphragm
For diaphragm valve type 514/515/517

Model:

- For type 514, 515, 517, 519 and Diastar

d (mm)	Size (inch)	DN (mm)
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50

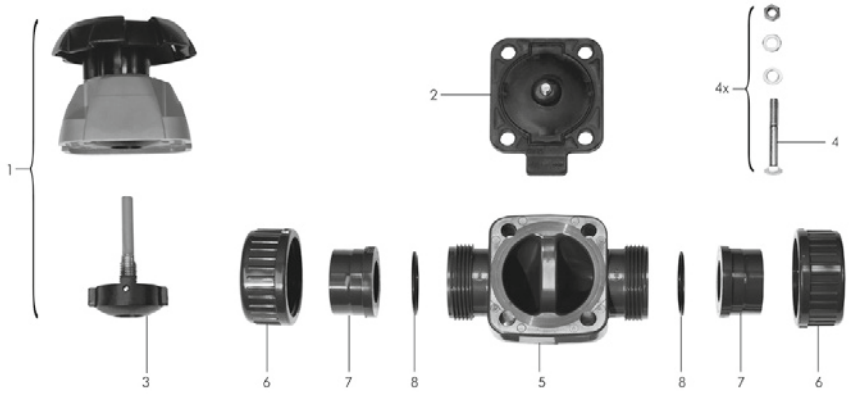
d (mm)	NBR Code	EPDM Code	FKM Code	PTFE/EPDM Code	PTFE/EPDM HP Code	PTFE/FKM Code
20	745 500 012	748 500 012	749 500 012	747 502 012	747 502 032	747 503 012
25	745 500 013	748 500 013	749 500 013	747 502 013	747 502 033	747 503 013
32	745 500 014	748 500 014	749 500 014	747 502 014	747 502 034	747 503 014
40	745 500 015	748 500 015	749 500 015	747 502 015	747 502 035	747 503 015
50	745 500 016	748 500 016	749 500 016	747 502 016	747 502 036	747 503 016
63	745 500 017	748 500 017	749 500 017	747 502 017	747 502 037	747 503 017



Flat gasket
For diaphragm valve type 517

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
25	¾	20	**748 400 007**	**749 400 007**
32	1	25	**748 400 008**	**749 400 008**
40	1 ¼	32	**748 400 009**	**749 400 009**
50	1 ½	40	**748 400 010**	**749 400 010**
63	2	50	**748 400 011**	**749 400 011**

Spare parts diaphragm valve type 314







Bonnet complete

Model:

- Without diaphragm (1, 3)

d (mm)	Size (inch)	DN (mm)	elastomer diaphragm Code	PTFE diaphragm Code
20	½	15	**161 484 625**	**161 484 632**
25	¾	20	**161 484 626**	**161 484 633**
32	1	25	**161 484 627**	**161 484 634**
40	1 ¼	32	**161 484 628**	**161 484 635**
50	1 ½	40	**161 484 629**	**161 484 636**
63	2	50	**161 484 630**	**161 484 637**



Union end seal for PVC-U valves

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
20	½	15	**748 410 038**	**749 410 038**
25	¾	20	**748 410 044**	**749 410 044**
32	1	25	**748 410 195**	**749 410 195**
40	1 ¼	32	**748 410 052**	**749 410 052**
50	1 ½	40	**748 410 134**	**749 410 134**
63	2	50	**748 410 135**	**749 410 135**



Fastening set (4)

Model:

- * with support plate

d (mm)	Size (inch)	DN (mm)	for PVC-U PVC-C ABS Code	for PP PVDF * Code
20	½	15	**161 484 704**	**198 000 650**
25	¾	20	**161 484 705**	**198 000 651**
32	1	25	**161 484 706**	**198 000 652**
40	1 ¼	32	**161 484 707**	**198 000 653**
50	1 ½	40	**161 484 708**	**198 000 654**
63	2	50	**161 484 709**	**198 000 655**

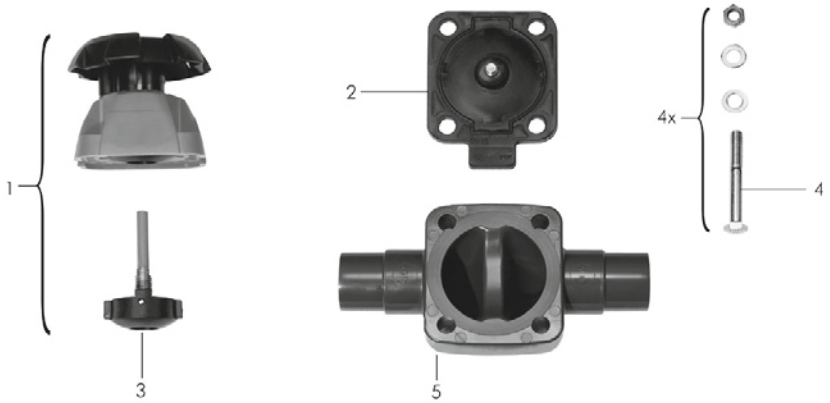


Diaphragm (2)

d (mm)	Size (inch)	DN (mm)
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50

d (mm)	NBR Code	EPDM Code	FKM Code	PTFE/EPDM Code	CSM Code	PTFE/EPDM SYGEF PLUS HP Code
20	**161 311 710**	**161 481 022**	**161 481 092**	**161 311 698**	**161 311 728**	**161 484 452**
25	**161 311 711**	**161 481 023**	**161 481 093**	**161 311 699**	**161 311 729**	**161 484 453**
32	**161 311 712**	**161 481 024**	**161 481 094**	**161 311 700**	**161 311 730**	**161 484 454**
40	**161 311 713**	**161 481 025**	**161 481 095**	**161 311 701**	**161 311 731**	**161 484 455**
50	**161 311 714**	**161 481 026**	**161 481 096**	**161 311 702**	**161 311 732**	**161 484 456**
63	**161 311 715**	**161 481 027**	**161 481 097**	**161 311 703**	**161 311 733**	**161 484 457**

Spare parts diaphragm valve type 315





Bonnet complete

Model:

- Without diaphragm (1, 3)

d (mm)	Size (inch)	DN (mm)	elastomer diaphragm Code	PTFE diaphragm Code
20	½	15	161 484 625	161 484 632
25	¾	20	161 484 626	161 484 633
32	1	25	161 484 627	161 484 634
40	1 ¼	32	161 484 628	161 484 635
50	1 ½	40	161 484 629	161 484 636
63	2	50	161 484 630	161 484 637



Diaphragm (2)

d (mm)	Size (inch)	DN (mm)
20	½	15
25	⅜	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50

d (mm)	NBR Code	EPDM Code	FKM Code	PTFE/EPDM Code	CSM Code	PTFE/EPDM SYGEF PLUS HP Code
20	161 311 710	161 481 022	161 481 092	161 311 698	161 311 728	161 484 452
25	161 311 711	161 481 023	161 481 093	161 311 699	161 311 729	161 484 453
32	161 311 712	161 481 024	161 481 094	161 311 700	161 311 730	161 484 454
40	161 311 713	161 481 025	161 481 095	161 311 701	161 311 731	161 484 455
50	161 311 714	161 481 026	161 481 096	161 311 702	161 311 732	161 484 456
63	161 311 715	161 481 027	161 481 097	161 311 703	161 311 733	161 484 457



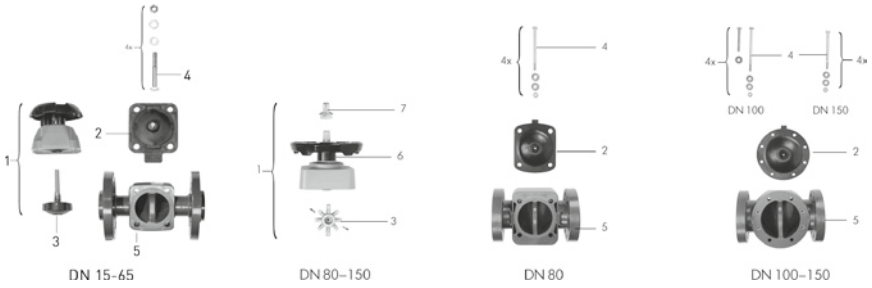
Fastening set (4)

Model:

- * with support plate

d (mm)	Size (inch)	DN (mm)	for PVC-U PVC-C ABS Code	for PP PVDF * Code
20	½	15	161 484 704	198 000 650
25	¾	20	161 484 705	198 000 651
32	1	25	161 484 706	198 000 652
40	1 ¼	32	161 484 707	198 000 653
50	1 ½	40	161 484 708	198 000 654
63	2	50	161 484 709	198 000 655

Spare parts diaphragm valve type 317







Bonnet complete
For diaphragm valve type 317

Model:

- Without diaphragm (1, 3)

d (mm)	Size (inch)	DN (mm)	elastomer diaphragm Code	PTFE diaphragm Code
20	½	15	**161 484 625**	**161 484 632**
25	¾	20	**161 484 626**	**161 484 633**
32	1	25	**161 484 627**	**161 484 634**
40	1 ¼	32	**161 484 628**	**161 484 635**
50	1 ½	40	**161 484 629**	**161 484 636**
63	2	50	**161 484 630**	**161 484 637**
75	2 ½	65	**161 484 631**	**161 484 638**
90	3	80	**161 482 514**	**161 482 516**
110	4	100	**161 482 515**	**161 482 517**
160	6	150	**161 482 901**	**161 482 906**



Diaphragm (2)
For diaphragm valve type 317

d (mm)	Size (inch)	DN (mm)
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50
75	2 ½	65
90	3	80
110	4	100
160	6	150

d (mm)	NBR Code	EPDM Code	FKM Code	PTFE/EPDM Code	PTFE/EPDM HP Code	CSM Code
20	**161 311 710**	**161 481 022**	**161 481 092**	**161 311 698**	**161 484 452**	**161 311 728**
25	**161 311 711**	**161 481 023**	**161 481 093**	**161 311 699**	**161 484 453**	**161 311 729**
32	**161 311 712**	**161 481 024**	**161 481 094**	**161 311 700**	**161 484 454**	**161 311 730**
40	**161 311 713**	**161 481 025**	**161 481 095**	**161 311 701**	**161 484 455**	**161 311 731**
50	**161 311 714**	**161 481 026**	**161 481 096**	**161 311 702**	**161 484 456**	**161 311 732**
63	**161 311 715**	**161 481 027**	**161 481 097**	**161 311 703**	**161 484 457**	**161 311 733**
75	**161 480 231**	**161 481 028**	**161 481 098**	**161 480 240**	**161 484 458**	**161 480 237**
90	**161 480 232**	**161 481 029**	**161 481 099**	**161 480 241**	**161 484 459**	**161 480 238**
110	**161 480 233**	**161 481 030**	**161 481 100**	**161 480 242**	**161 484 460**	**161 480 239**
160	**161 482 751**	**161 482 754**	**161 481 102**	**161 482 760**	**161 482 760**	**161 482 757**



Fastening set (4)
For diaphragm valve type 317

Model:

- * with support plate

d (mm)	Size (inch)	DN (mm)	for PVC-U PVC-C ABS Code	for PP PVDF * Code
20	½	15	**161 484 704**	**198 000 650**
25	¾	20	**161 484 705**	**198 000 651**
32	1	25	**161 484 706**	**198 000 652**
40	1 ¼	32	**161 484 707**	**198 000 653**
50	1 ½	40	**161 484 708**	**198 000 654**
63	2	50	**161 484 709**	**198 000 655**
75	2 ½	65	**161 483 032**	**161 483 032**
90	3	80	**161 483 033**	**161 483 033**
110	4	100	**161 483 034**	**161 483 034**
160	6	150	**161 483 037**	**161 483 037**



O-ring seal (6)
For diaphragm valve type 317

d (mm)	Size (inch)	DN (mm)	EPDM Code	NBR Code
90	3	80		**745 410 107**
110	4	100		**745 410 107**
160	6	150	**748 410 121**	

Indicator cap (7)
For diaphragm valve type 317

d (mm)	Size (inch)	DN (mm)	PVC-U SAN Code
90	3	80	**161 481 759**
110	4	100	**161 481 760**
160	6	150	**161 482 744**

Spare parts diaphragm valve type 319







Bonnet complete

Model:

- Without diaphragm (1, 3)

d (mm)	Size (inch)	elastomer diaphragm Code	PTFE diaphragm Code
20-20	½	161 484 625	161 484 632
25-20	¾	161 484 626	161 484 633
25-25	¾	161 484 626	161 484 633
32-20	1	161 484 627	161 484 634
32-25	1	161 484 627	161 484 634
32-32	1	161 484 627	161 484 634
40-20	1 ¼	161 484 627	161 484 634
40-25	1 ¼	161 484 627	175 481 860
40-32	1 ¼	161 484 627	175 481 860
40-40	1 ¼	161 484 628	175 481 861
50-20	1 ½	161 484 627	161 484 634
50-25	1 ½	161 484 627	161 484 634
50-32	1 ½	161 484 627	161 484 634
50-40	1 ½	161 484 629	175 481 862
50-50	1 ½	161 484 629	175 481 862
63-20	2	161 484 627	161 484 634
63-25	2	161 484 627	161 484 634
63-32	2	161 484 627	161 484 634
63-40	2	161 484 630	175 481 863
63-50	2	161 484 630	175 481 863
63-63	2	161 484 630	175 481 863
75-40	2 ½	161 484 628	175 481 861
75-50	2 ½	161 484 630	175 481 863
75-63	2 ½	161 484 630	175 481 863
90-20	3	161 484 627	161 484 634
90-25	3	161 484 627	161 484 634
90-32	3	161 484 627	161 484 634
90-50	3	161 484 630	161 484 636
90-63	3	161 484 630	161 484 636
110-20	4	161 484 627	161 484 634

table continued on the next page

d (mm)	Size (inch)	elastomer diaphragm Code	PTFE diaphragm Code
110-25	4	161 484 627	161 484 634
110-32	4	161 484 627	161 484 634
110-50	4	161 484 630	161 484 636
110-63	4	161 484 630	161 484 636

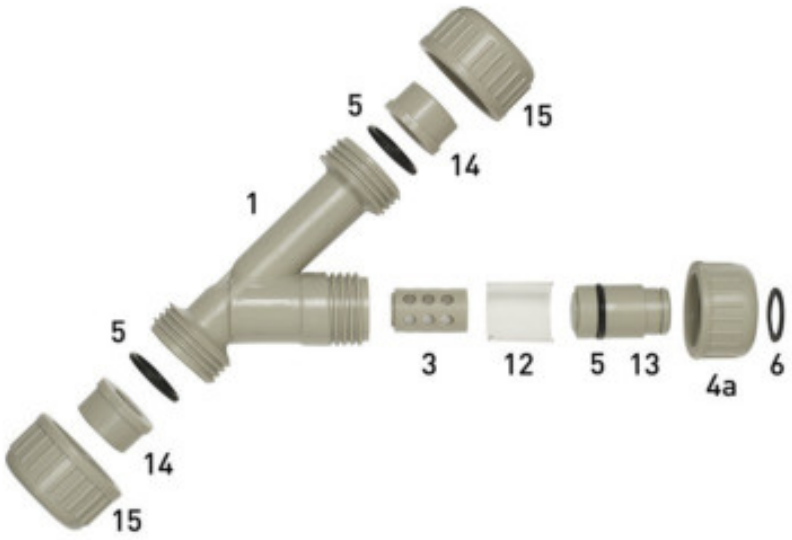


Diaphragm (2)

d (mm)	NBR Code	EPDM Code	FKM Code	PTFE/EPDM Code	CSM Code	PTFE/EPDM SYGEF PLUS Code
20-20	161 311 710	161 481 022	161 481 092	161 311 698	161 311 728	161 484 452
25-20	161 311 711	161 481 023	161 481 093	161 311 699	161 311 729	161 484 453
25-25	161 311 711	161 481 023	161 481 093	161 311 699	161 311 729	161 484 453
32-20	161 311 712	161 481 024	161 481 094	161 311 700	161 311 730	161 484 454
32-25	161 311 712	161 481 024	161 481 094	161 311 700	161 311 730	161 484 454
32-32	161 311 712	161 481 024	161 481 094	161 311 700	161 311 730	161 484 454
40-20	161 311 712	161 481 024	161 481 094	161 311 700	161 311 730	161 484 454
40-25	161 311 712	161 481 024	161 481 094	161 311 700	161 311 730	161 484 454
40-32	161 311 712	161 481 024	161 481 094	161 311 700	161 311 730	161 484 454
40-40	161 311 713	161 481 025	161 481 095	161 311 701	161 311 731	161 484 455
50-20	161 311 712	161 481 024	161 481 094	161 311 700	161 311 730	161 484 454
50-25	161 311 712	161 481 024	161 481 094	161 311 700	161 311 730	161 484 454
50-32	161 311 712	161 481 024	161 481 094	161 311 700	161 311 730	161 484 454
50-40	161 311 714	161 481 026	161 481 096	161 311 702	161 311 732	161 484 456
50-50	161 311 714	161 481 026	161 481 096	161 311 702	161 311 732	161 484 456
63-20	161 311 712	161 481 024	161 481 094	161 311 700	161 311 730	161 484 454
63-25	161 311 712	161 481 024	161 481 094	161 311 700	161 311 730	161 484 454
63-32	161 311 712	161 481 024	161 481 094	161 311 700	161 311 730	161 484 454
63-40	161 311 715	161 481 027	161 481 097	161 311 703	161 311 733	161 484 457
63-50	161 311 715	161 481 027	161 481 097	161 311 703	161 311 733	161 484 457
63-63	161 311 715	161 481 027	161 481 097	161 311 703	161 311 733	161 484 457
75-40	161 311 715	161 481 025	161 481 095	161 311 701	161 311 731	161 484 455
75-50	161 311 715	161 481 027	161 481 095	161 311 703	161 311 733	161 484 457
75-63	161 311 715	161 481 027	161 481 097	161 311 703	161 311 733	161 484 457
90-20	161 311 712	161 481 024	161 481 094	161 311 700	161 311 730	161 484 454
90-25	161 311 712	161 481 024	161 481 094	161 311 700	161 311 730	161 484 454
90-32	161 311 712	161 481 024	161 481 094	161 311 700	161 311 730	161 484 454
90-50	161 311 715	161 481 027	161 481 097	161 311 703	161 311 733	161 484 457
90-63	161 311 715	161 481 027	161 481 097	161 311 703	161 311 733	161 484 457
110-20	161 311 712	161 481 024	161 481 094	161 311 700	161 311 730	161 484 454
110-25	161 311 712	161 481 024	161 481 094	161 311 700	161 311 730	161 484 454
110-32	161 311 712	161 481 024	161 481 094	161 311 700	161 311 730	161 484 454
110-50	161 311 715	161 481 027	161 481 097	161 311 703	161 311 733	161 484 457
110-63	161 311 715	161 481 027	161 481 097	161 311 703	161 311 733	161 484 457

Spare parts line strainer type 305/306



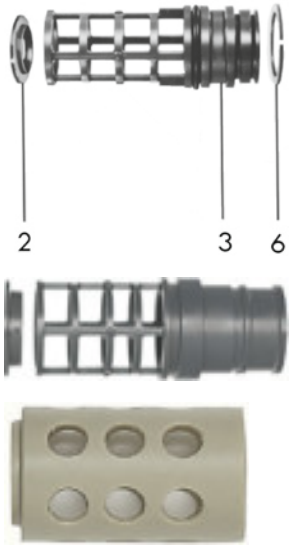




Body (1)

d (mm)	Size (inch)	DN (mm)
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50
75	2 ½	65
90	3	80

d (mm)	PVC-U transparent Code	PVC-U transparent ASTM Code	PVC-C Code	ABS Code	PP-H Code	PVC-U metric Code
20	**192 300 301**	**192 480 001**	**163 481 075**	**169 480 600**	**167 305 010**	**161 300 301**
25	**192 300 351**	**192 480 002**	**163 481 076**	**169 480 601**	**167 305 011**	**161 300 351**
32	**192 300 401**	**192 301 401**	**163 481 077**	**169 480 602**	**167 305 012**	**161 300 401**
40	**192 300 451**	**192 301 451**	**163 481 078**	**169 480 603**	**167 305 013**	**161 300 451**
50	**192 300 501**	**192 301 501**	**163 481 079**	**169 480 604**	**167 305 014**	**161 300 501**
63	**192 300 551**	**192 301 551**	**163 481 080**	**169 480 605**	**167 305 015**	**161 300 551**
75	**192 300 601**					**161 300 601**
90	**192 300 651**					**161 300 651**



Screen set

Model:

- Screen set PVC-U and PVC-C DN15-DN50 consisting of: screen (3), screen support ring (2) and circlip (6), without o-ring. PVC-U DN65-DN80: screen (3) and screen support ring (2), without o-ring. PP-H DN15-DN50: screen cage (3), circlip (6), screen perforation (12) and screen cage bracket incl. o-ring (13).

d (mm)	Size (inch)	DN (mm)	PVC-U Code	PP-H EPDM Code	PP-H FKM Code	PVC-C Code
20	½	15	**161 483 126**	**167 305 280**	**167 305 290**	**163 305 330**
25	¾	20	**161 483 127**	**167 305 281**	**167 305 291**	**163 305 331**
32	1	25	**161 483 128**	**167 305 282**	**167 305 292**	**163 305 332**
40	1 ¼	32	**161 483 129**	**167 305 283**	**167 305 293**	**163 305 333**
50	1 ½	40	**161 483 130**	**167 305 284**	**167 305 294**	**163 305 334**
63	2	50	**161 483 131**	**167 305 285**	**167 305 295**	**163 305 335**
75	2 ½	65	**161 483 132**			
90	3	80	**161 483 133**			





Screen perforation (7-11)

d (mm)	Size (inch)	DN (mm)
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50
75	2 ½	65
90	3	80

d (mm)	PVC-U 0.5mm (7) Code	PVC-U 0.8mm (8) Code	PVC-U 1.4mm (9) Code	PVC-U 2.2mm (10) Code	PP-H 0.5mm (12) Code	stainless steel 0.5mm AISI 316 (11) Code
20	**161 305 339**	**161 305 338**	**161 305 337**	**161 305 336**	**167 305 030**	**161 486 100**
25	**161 305 389**	**161 305 388**	**161 305 387**	**161 305 386**	**167 305 031**	**161 486 101**
32	**161 305 439**	**161 305 438**	**161 305 437**	**161 305 436**	**167 305 032**	**161 486 102**
40	**161 305 489**	**161 305 488**	**161 305 487**	**161 305 486**	**167 305 033**	**161 486 103**
50	**161 305 539**	**161 305 538**	**161 305 537**	**161 305 536**	**167 305 034**	**161 486 104**
63	**161 305 589**	**161 305 588**	**161 305 587**	**161 305 586**	**167 305 035**	**161 486 105**
75	**161 305 639**	**161 305 638**	**161 305 637**	**161 305 636**		**161 486 106**
90	**161 305 689**	**161 305 688**	**161 305 687**	**161 305 686**		**161 486 107**



Screen cage bracket (13)

Model:

- Only available for PP-H version
- With o-ring (5)

d (mm)	Size (inch)	DN (mm)	PP-H EPDM Code	PP-H FKM Code
20	½	15	**167 305 260**	**167 305 270**
25	¾	20	**167 305 261**	**167 305 271**
32	1	25	**167 305 262**	**167 305 272**
40	1 ¼	32	**167 305 263**	**167 305 273**
50	1 ½	40	**167 305 264**	**167 305 274**
63	2	50	**167 305 265**	**167 305 275**



Screen cage (3)

Model:

- Screen cage in PVC-U, PVC-C and PP-H

d (mm)	Size (inch)	DN (mm)	PVC-U Code	PVC-C Code	PP-H Code
20	½	15	**161 305 303**	**163 481 102**	**167 305 020**
25	¾	20	**161 305 353**	**163 481 103**	**167 305 021**
32	1	25	**161 305 403**	**163 481 104**	**167 305 022**
40	1 ¼	32	**161 305 453**	**163 481 105**	**167 305 023**
50	1 ½	40	**161 305 503**	**163 481 106**	**167 305 024**
63	2	50	**161 305 553**	**163 481 107**	**167 305 025**
75	2 ½	65	**161 305 603**		
90	3	80	**161 305 653**		



Circlip (6 + 7)

Description	d (mm)	Size (inch)	DN (mm)	PVC-U Code
	16	⅜	10	**161 482 076**
PP-H	20	½	15	**161 482 017**
PP-H	25	¾	20	**161 482 018**
PP-H	32	1	25	**161 482 019**
PP-H	40	1 ¼	32	**161 482 020**
PP-H	50	1 ½	40	**161 482 021**
PP-H	63	2	50	**161 482 022**



Plug (4b)

Model:

- Only for PVC-U DN65-DN80

d (mm)	Size (inch)	DN (mm)	PVC-U Code
75	2 ½	65	**161 305 604**
90	3	80	**161 305 654**



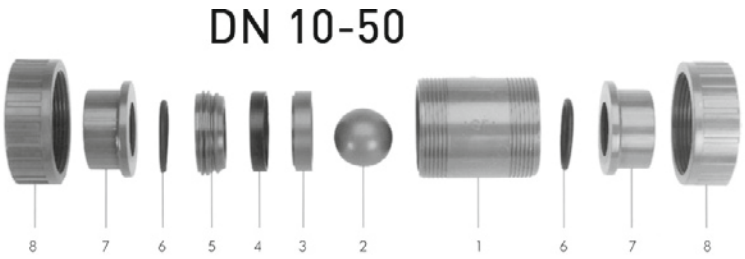
Valve nut (4a/15)

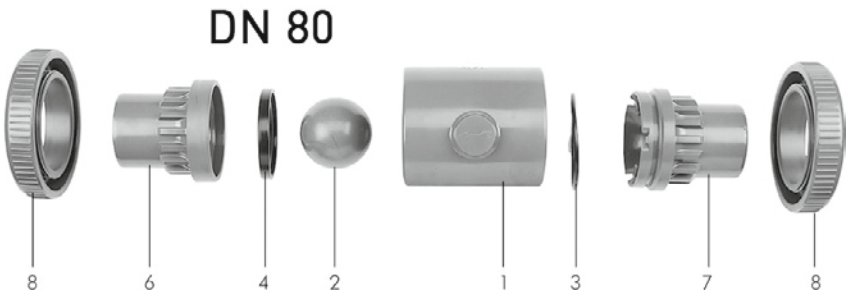
Model:

- Union nut PVC-U DN15-DN50, PP-H

d (mm)	Size (inch)	DN (mm)	PVC-U (4a) Code	PVC-C (4a) Code	ABS (4a) Code	PP-H (4a) Code	PP-H (15) Code
20	½	15	**161 300 308**	**163 481 084**	**169 480 609**	**167 305 060**	**167 305 070**
25	¾	20	**161 300 358**	**163 481 085**	**169 480 610**	**167 305 061**	**167 305 071**
32	1	25	**161 300 408**	**163 481 086**	**169 480 611**	**167 305 062**	**167 305 072**
40	1 ¼	32	**161 300 458**	**163 481 087**	**169 480 612**	**167 305 063**	**167 305 073**
50	1 ½	40	**161 300 508**	**163 481 088**	**169 480 613**	**167 305 064**	**167 305 074**
63	2	50	**161 300 558**	**163 481 089**	**169 480 614**	**167 305 065**	**167 305 075**

Spare parts ball check valves type 360







Central part

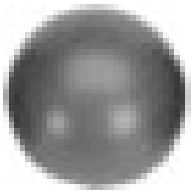
Model:

- Central part consisting of: body (1), ball (2), support ring (3), sealing ring (4) and union bush (5)

d (mm)	Size (inch)	DN (mm)
16	⅜	10
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50

d (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code	PP-H EPDM Code
16	**161 483 851**	**161 483 861**	**163 480 645**	**163 480 655**	**169 480 250**	**167 481 125**
20	**161 483 852**	**161 483 862**	**163 480 646**	**163 480 656**	**169 480 251**	**167 481 126**
25	**161 483 853**	**161 483 863**	**163 480 647**	**163 480 657**	**169 480 252**	**167 481 127**
32	**161 483 854**	**161 483 864**	**163 480 648**	**163 480 658**	**169 480 253**	**167 481 128**
40	**161 483 855**	**161 483 865**	**163 480 649**	**163 480 659**	**169 480 254**	**167 481 129**
50	**161 483 856**	**161 483 866**	**163 480 650**	**163 480 660**	**169 480 255**	**167 481 130**
63	**161 483 857**	**161 483 867**	**163 480 651**	**163 480 661**	**169 480 256**	**167 481 131**

d (mm)	PP-H FKM Code
16	**167 481 135**
20	**167 481 136**
25	**167 481 137**
32	**167 481 138**
40	**167 481 139**
50	**167 481 140**
63	**167 481 141**



Ball (2)

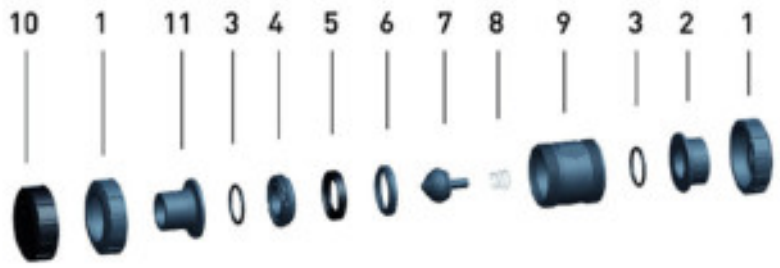
d (mm)	Size (inch)	DN (mm)	PVC-U Code	PP-H with talc density 1.24 Code	PP-H 100% Code	PVDF Code
16	⅜	10	**161 330 304**	**167 481 165**	**167 480 024**	**175 480 153**
20	½	15	**161 330 304**	**167 481 165**	**167 480 024**	**175 480 153**
25	¾	20	**161 330 354**	**167 481 166**	**167 480 025**	**175 480 154**
32	1	25	**161 330 404**	**167 481 167**	**167 480 026**	**175 480 155**
40	1 ¼	32	**161 330 454**	**167 481 168**	**167 480 027**	**175 480 156**
50	1 ½	40	**161 330 504**	**167 481 169**	**167 480 028**	**175 480 157**
63	2	50	**161 330 554**	**167 481 170**	**167 480 029**	**175 480 158**
90	3	80	**161 330 654**			



Seal set (4, 6)

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	⅜	10	**161 482 910**	**161 482 920**
20	½	15	**161 482 910**	**161 482 920**
25	¾	20	**161 482 911**	**161 482 921**
32	1	25	**161 482 912**	**161 482 922**
40	1 ¼	32	**161 482 913**	**161 482 923**
50	1 ½	40	**161 482 914**	**161 482 924**
63	2	50	**161 482 915**	**161 482 925**

Spare parts ventilating- and bleed valve type 591/595





Central part with spring
For ventilating valve 595 and check valve type 562

Model:

- Central body consisting of: housing (9), union bush (4), support ring (6), floater (7), spring Nimonic 90 Halar coated (8), profile seal ring (5) and face seal (3)

d (mm)	Size (inch)	DN (mm)
16	⅜	10
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50
75	2 ½	65
90	3	80
110	4	100

table continued on the next page

d (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code	PP-H EPDM Code
16	161 485 281	161 485 291	163 485 281	163 485 291	169 485 281	167 485 281
20	161 485 281	161 485 291	163 485 281	163 485 291	169 485 281	167 485 281
25	161 485 282	161 485 292	163 485 282	163 485 292	169 485 282	167 485 282
32	161 485 283	161 485 293	163 485 283	163 485 293	169 485 283	167 485 283
40	161 485 284	161 485 294	163 485 284	163 485 294	169 485 284	167 485 284
50	161 485 285	161 485 295	163 485 285	163 485 295	169 485 285	167 485 285
63	161 485 286	161 485 296	163 485 286	163 485 296	169 485 286	167 485 286
75	161 485 287	161 485 297	163 485 287	163 485 297	169 485 287	167 485 287
90	161 485 288	161 485 298	163 485 288	163 485 298	169 485 288	167 485 288
110	161 485 289	161 485 299	163 485 289	163 485 299	169 485 289	167 485 289

d (mm)	PP-H FKM Code	PVDF FKM Code
16	167 485 291	175 485 291
20	167 485 291	175 485 291
25	167 485 292	175 485 292
32	167 485 293	175 485 293
40	167 485 294	175 485 294
50	167 485 295	175 485 295
63	167 485 296	175 485 296
75	167 485 297	175 485 297
90	167 485 298	175 485 298
110	167 485 299	175 485 299



Central part without spring
For ventilating- and bleed valve type 591

Model:

- Central body consisting of: housing (9), union bush (4), support ring (6), floater PP-H/PVDF (7), profile seal ring (5) and face seal (3)

d (mm)	Size (inch)	DN (mm)
16	⅜	10
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50
75	2 ½	65
90	3	80
110	4	100

d (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code	PP-H EPDM Code
16	161 485 261	161 485 271	163 485 261	163 485 271	169 485 261	167 485 261
20	161 485 261	161 485 271	163 485 261	163 485 271	169 485 261	167 485 261
25	161 485 262	161 485 272	163 485 262	163 485 272	169 485 262	167 485 262
32	161 485 263	161 485 273	163 485 263	163 485 273	169 485 263	167 485 263
40	161 485 264	161 485 274	163 485 264	163 485 274	169 485 264	167 485 264
50	161 485 265	161 485 275	163 485 265	163 485 275	169 485 265	167 485 265
63	161 485 266	161 485 276	163 485 266	163 485 276	169 485 266	167 485 266
75	161 485 267	161 485 277	163 485 267	163 485 277	169 485 267	167 485 267
90	161 485 268	161 485 278	163 485 268	163 485 278	169 485 268	167 485 268
110	161 485 269	161 485 279	163 485 269	163 485 279	169 485 269	167 485 269

table continued on the next page

d (mm)	PP-H FKM Code	PVDF FKM Code
16	167 485 271	175 485 271
20	167 485 271	175 485 271
25	167 485 272	175 485 272
32	167 485 273	175 485 273
40	167 485 274	175 485 274
50	167 485 275	175 485 275
63	167 485 276	175 485 276
75	167 485 277	175 485 277
90	167 485 278	175 485 278
110	167 485 279	175 485 279



Cone (7)
For Check Valve Type 561/562 and Ventilating & Bleed Valve Type 591/595

Model:

- For type 591 only PP-H and PVDF
- PP-Talkum only for type 561/562

d (mm)	Size (inch)	DN (mm)	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF 595 Code
20	½	15	161 491 151	163 482 151	169 482 151	167 485 151	175 484 151
25	¾	20	161 491 152	163 482 152	169 482 152	167 485 152	175 484 152
32	1	25	161 491 153	163 482 153	169 482 153	167 485 153	175 484 153
40	1 ¼	32	161 491 154	163 482 154	169 482 154	167 485 154	175 484 154
50	1 ½	40	161 491 155	163 482 155	169 482 155	167 485 155	175 484 155
63	2	50	161 491 156	163 482 156	169 482 156	167 485 156	175 484 156
75	2 ½	65	161 491 157	163 482 157	169 482 157	167 485 157	175 484 157
90	3	80	161 491 158	163 482 158	169 482 158	167 485 158	175 484 158
110	4	100	161 491 159	163 482 159	169 482 159	167 485 159	175 484 159

d (mm)	Size (inch)	DN (mm)	PVDF 591 Code	PP-Talkum 20% Code
20	½	15	175 484 161	167 485 351
25	¾	20	175 484 162	167 485 352
32	1	25	175 484 163	167 485 353
40	1 ¼	32	175 484 164	167 485 354
50	1 ½	40	175 484 165	167 485 355
63	2	50	175 484 166	167 485 356
75	2 ½	65	175 484 167	167 485 357
90	3	80	175 484 168	167 485 358
110	4	100	175 484 169	167 485 359



Protective cap (10)
For ventilating- and bleed valve type 591/595

Model:

- Protects the piping system from dirt particles out of the ambient airCan also be used as tool for opening and closing the valve union bushing

d (mm)	Size (inch)	DN (mm)	PP-GF Code
16	⅜	10	167 485 361
20	½	15	167 485 361
25	¾	20	167 485 362
32	1	25	167 485 363
40	1 ¼	32	167 485 364
50	1 ½	40	167 485 365

table continued on the next page

d (mm)	Size (inch)	DN (mm)	PP-GF Code
63	2	50	**167 485 366**
75	2 ½	65	**167 485 367**
90	3	80	**167 485 368**
110	4	100	**167 485 369**



Seal set
For check valve type 561/562, ventilating & bleed valve 591/595

Model:

- Seal set consisting of: profile seal ring (5) and face seal (3)

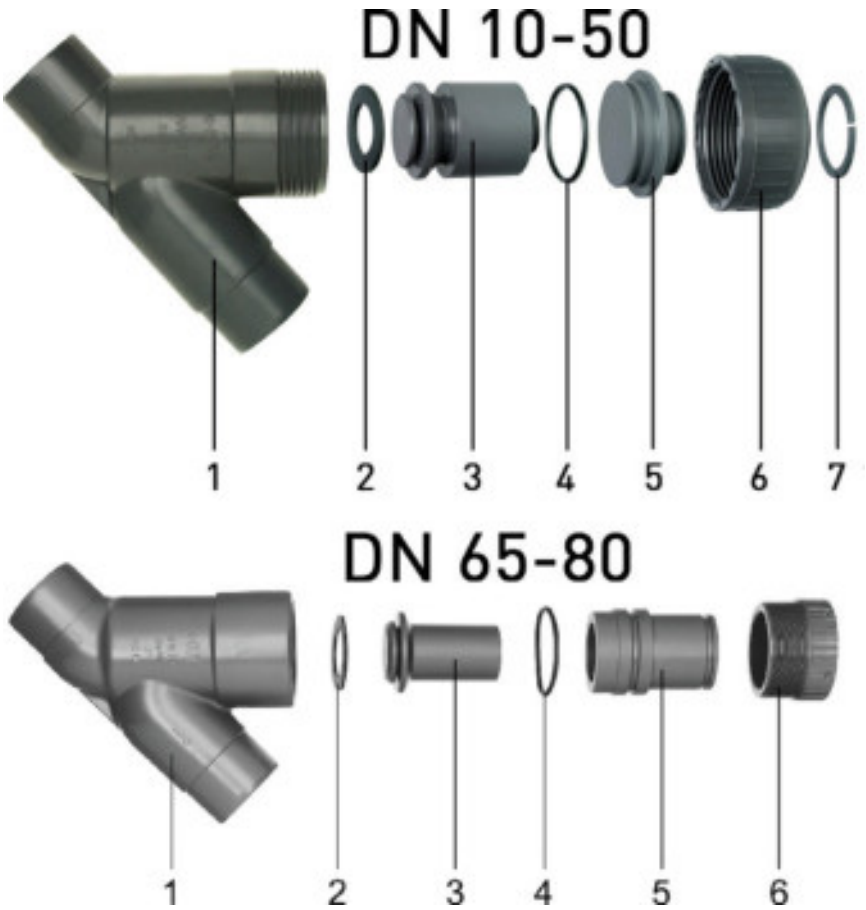
d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	⅜	10	**161 485 241**	**161 485 251**
20	½	15	**161 485 241**	**161 485 251**
25	¾	20	**161 485 242**	**161 485 252**
32	1	25	**161 485 243**	**161 485 253**
40	1 ¼	32	**161 485 244**	**161 485 254**
50	1 ½	40	**161 485 245**	**161 485 255**
63	2	50	**161 485 246**	**161 485 256**
75	2 ½	65	**161 485 247**	**161 485 257**
90	3	80	**161 485 248**	**161 485 258**
110	4	100	**161 485 249**	**161 485 259**



Handle for dismantling
For ball valve type 546, check valve type 561/562, ventilating & bleed valve 591/595

d (mm)	Size (inch)	DN (mm)	red Code	black Code
16	⅜	10	**167 484 088**	**167 484 076**
20	½	15	**167 484 088**	**167 484 076**
25	¾	20	**167 484 089**	**167 484 077**
32	1	25	**167 484 090**	**167 484 078**
40	1 ¼	32	**167 484 091**	**167 484 079**
50	1 ½	40	**167 484 092**	**167 484 080**
63	2	50	**167 484 093**	**167 484 081**
75	2 ½	65	**167 484 094**	**167 484 082**
90	3	80	**167 484 095**	**167 484 083**
110	4	100	**167 484 096**	**167 484 084**

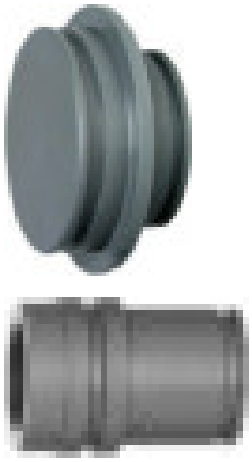
Spare parts angle seat valve type 303/304





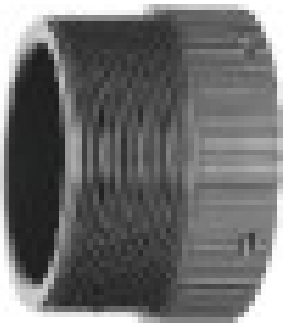
Body (1)

d (mm)	Size (inch)	DN (mm)	PVC-U Code	PVC-U transparent ASTM Code
16	⅜	10	**161 480 699**	
20	½	15	**161 480 700**	**192 480 001**
25	¾	20	**161 480 701**	**192 480 002**
32	1	25	**161 300 401**	**192 301 401**
40	1 ¼	32	**161 300 451**	**192 301 451**
50	1 ½	40	**161 300 501**	**192 301 501**
63	2	50	**161 300 551**	**192 301 551**
75	2 ½	65	**161 300 601**	
90	3	80	**161 300 651**	**192 301 651**



Closure plug (5)

d (mm)	Size (inch)	DN (mm)	PVC-U Code
16	⅜	10	**161 480 648**
20	½	15	**161 480 649**
25	¾	20	**161 480 650**
32	1	25	**161 480 651**
40	1 ¼	32	**161 480 652**
50	1 ½	40	**161 480 653**
63	2	50	**161 480 654**
75	2 ½	65	**161 490 412**
90	3	80	**161 490 413**



Plug

Model:

- DN65-DN80 (6)

d (mm)	Size (inch)	DN (mm)	PVC-U Code
75	2 ½	65	**161 305 604**
90	3	80	**161 305 654**



Flat gasket (2)

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	⅜	10	**161 480 664**	**161 480 673**
20	½	15	**161 480 665**	**161 480 674**
25	¾	20	**161 480 666**	**161 480 675**
32	1	25	**161 480 667**	**161 480 676**
40	1 ¼	32	**161 480 668**	**161 480 677**
50	1 ½	40	**161 480 669**	**161 480 678**
63	2	50	**161 480 670**	**161 480 679**
75	2 ½	65	**161 480 671**	**161 480 680**
90	3	80	**161 480 672**	**161 480 681**



Union nut

Model:

- DN10-DN50 (6)

d (mm)	Size (inch)	DN (mm)	PVC-U Code
16	⅜	10	**161 300 258**
20	½	15	**161 300 308**
25	¾	20	**161 300 358**
32	1	25	**161 300 408**
40	1 ¼	32	**161 300 458**
50	1 ½	40	**161 300 508**
63	2	50	**161 300 558**



O-ring (4)

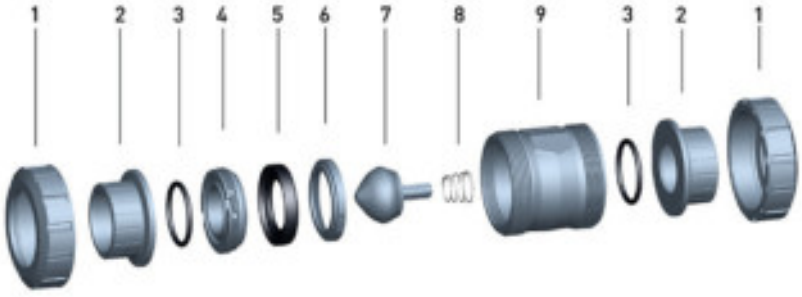
d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	⅜	10	**748 410 059**	**749 410 059**
20	½	15	**748 410 106**	**749 410 106**
50	1 ½	40	**748 410 102**	**749 410 102**
63	2	50	**748 410 101**	**749 410 101**
75	2 ½	65	**748 410 119**	**749 410 119**



Piston (3)

d (mm)	Size (inch)	DN (mm)	PVC-U Code
16	⅜	10	**161 480 682**
20	½	15	**161 480 683**
25	¾	20	**161 480 684**
32	1	25	**161 480 685**
40	1 ¼	32	**161 480 686**
50	1 ½	40	**161 480 687**
63	2	50	**161 480 688**
75	2 ½	65	**161 480 689**
90	3	80	**161 480 690**

Spare parts cone check valve type 561/562





Central part without spring
For check valve type 561

Model:

- Central body consisting of: housing (9), union bush (4), support ring (6), cone (7), profile seal ring (5) and face seal (3)

d (mm)	Size (inch)	DN (mm)
16	⅜	10
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50
75	2 ½	65
90	3	80
110	4	100

table continued on the next page

d (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code	PP-H EPDM Code
16	161 485 201	161 485 211	163 485 201	163 485 211	169 485 201	167 485 201
20	161 485 201	161 485 211	163 485 201	163 485 211	169 485 201	167 485 201
25	161 485 202	161 485 212	163 485 202	163 485 212	169 485 202	167 485 202
32	161 485 203	161 485 213	163 485 203	163 485 213	169 485 203	167 485 203
40	161 485 204	161 485 214	163 485 204	163 485 214	169 485 204	167 485 204
50	161 485 205	161 485 215	163 485 205	163 485 215	169 485 205	167 485 205
63	161 485 206	161 485 216	163 485 206	163 485 216	169 485 206	167 485 206
75	161 485 207	161 485 217	163 485 207	163 485 217	169 485 207	167 485 207
90	161 485 208	161 485 218	163 485 208	163 485 218	169 485 208	167 485 208
110	161 485 209	161 485 219	163 485 209	163 485 219	169 485 209	167 485 209

d (mm)	PP-H FKM Code	PVDF FKM Code
16	167 485 211	175 485 211
20	167 485 211	175 485 211
25	167 485 212	175 485 212
32	167 485 213	175 485 213
40	167 485 214	175 485 214
50	167 485 215	175 485 215
63	167 485 216	175 485 216
75	167 485 217	175 485 217
90	167 485 218	175 485 218
110	167 485 219	175 485 219





Handle for dismantling
For ball valve type 546, check valve type 561/562, ventilating & bleed valve 591/595

d (mm)	Size (inch)	DN (mm)	red Code	black Code
16	⅜	10	167 484 088	167 484 076
20	½	15	167 484 088	167 484 076
25	¾	20	167 484 089	167 484 077
32	1	25	167 484 090	167 484 078
40	1 ¼	32	167 484 091	167 484 079
50	1 ½	40	167 484 092	167 484 080
63	2	50	167 484 093	167 484 081
75	2 ½	65	167 484 094	167 484 082
90	3	80	167 484 095	167 484 083
110	4	100	167 484 096	167 484 084



Face seal (3)

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	⅜	10	748 410 059	749 410 059
20	½	15	748 410 059	749 410 059
25	¾	20	748 410 106	749 410 106
32	1	25	748 410 151	749 410 151
40	1 ¼	32	748 410 062	749 410 062
63	2	50	748 410 231	749 410 231
75	2 ½	65	748 410 119	749 410 119
90	3	80	748 410 023	749 410 023
110	4	100	748 410 254	749 410 254



Profile seal ring (5)

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	⅜	10	**748 436 001**	**749 436 001**
20	½	15	**748 436 001**	**749 436 001**
25	¾	20	**748 436 002**	**749 436 002**
32	1	25	**748 436 003**	**749 436 003**
40	1 ¼	32	**748 436 004**	**749 436 004**
50	1 ½	40	**748 436 005**	**749 436 005**
63	2	50	**748 436 006**	**749 436 006**
75	2 ½	65	**748 436 007**	**749 436 007**
90	3	80	**748 436 008**	**749 436 008**
110	4	100	**748 436 009**	**749 436 009**



Spring (8)
For check valve type 562

Model:

- Material: NIMONIC 90, code: 2.4632
- Material: Stainless steel, code: 1.4310, HALAR® coated
- Material: Stainless steel, code: 1.4310

d (mm)	Size (inch)	DN (mm)	Stainless steel Code	Stainless steel HALAR coated Code	NIMONIC 90 Code
16 - 25	⅜ - ¼	10 - 20	**161 485 132**	**161 485 142**	**161 485 152**
32	1	25	**161 485 133**	**161 485 143**	**161 485 153**
40	1 ¼	32	**161 485 134**	**161 485 144**	**161 485 154**
50	1 ½	40	**161 485 135**	**161 485 145**	**161 485 155**
63	2	50	**161 485 136**	**161 485 146**	**161 485 156**
75	2 ½	65	**161 485 137**	**161 485 147**	**161 485 157**
90	3	80	**161 485 138**	**161 485 148**	**161 485 158**
110	4	100	**161 485 139**	**161 485 149**	**161 485 159**



Central part with spring
For check valve type 562

Model:

- Central body consisting of: housing (9), union bush (4), support ring (6), cone (7), spring V2A (8), profile seal ring (5) and face seal (3)

d (mm)	Size (inch)	DN (mm)
16	⅜	10
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50
75	2 ½	65
90	3	80
110	4	100

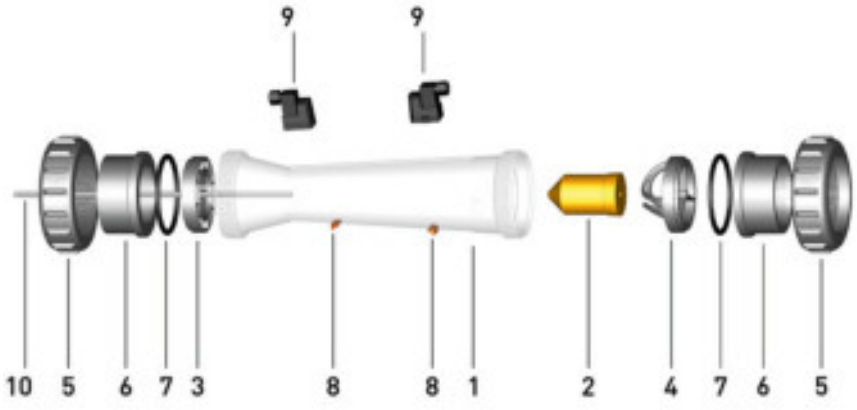
d (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code	PP-H EPDM Code
16	**161 485 221**	**161 485 231**	**163 485 221**	**163 485 231**	**169 485 221**	**167 485 231**
20	**161 485 221**	**161 485 231**	**163 485 221**	**163 485 231**	**169 485 221**	**167 485 231**
25	**161 485 222**	**161 485 232**	**163 485 222**	**163 485 232**	**169 485 222**	**167 485 232**

table continued on the next page

d (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code	PP-H EPDM Code
32	161 485 223	161 485 233	163 485 223	163 485 233	169 485 223	167 485 233
40	161 485 224	161 485 234	163 485 224	163 485 234	169 485 224	167 485 234
50	161 485 225	161 485 235	163 485 225	163 485 235	169 485 225	167 485 235
63	161 485 226	161 485 236	163 485 226	163 485 236	169 485 226	167 485 236
75	161 485 227	161 485 237	163 485 227	163 485 237	169 485 227	167 485 237
90	161 485 228	161 485 238	163 485 228	163 485 238	169 485 228	167 485 238
110	161 485 229	161 485 239	163 485 229	163 485 239	169 485 229	167 485 239

d (mm)	PP-H FKM Code	PVDF FKM Code
16	167 485 241	175 485 231
20	167 485 241	175 485 231
25	167 485 242	175 485 232
32	167 485 243	175 485 233
40	167 485 244	175 485 234
50	167 485 245	175 485 235
63	167 485 246	175 485 236
75	167 485 247	175 485 237
90	167 485 248	175 485 238
110	167 485 249	175 485 239

Variable area flow meter type 350





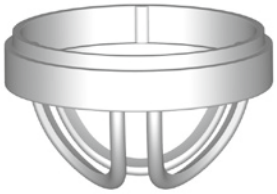
Taper tube with water scale (1)

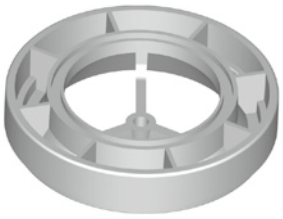
d (mm)	Size (inch)	DN (mm)	Scale range (l/min)	PVC-U transparent Code	Polyamid Code	Polysulfon Code
32	1	25	50 - 500	198 350 055	198 350 070	198 350 085
32	1	25	100 - 1000	198 350 056	198 350 071	198 350 086
40	1 ¼	32	150 - 1500	198 350 057	198 350 072	198 350 087
40	1 ¼	32	250 - 2500	198 350 058	198 350 073	198 350 088
50	1 ½	40	200 - 2000	198 350 059	198 350 074	198 350 089
50	1 ½	40	300 - 3000	198 350 060	198 350 075	198 350 090
50	1 ½	40	600 - 6000	198 350 061	198 350 076	198 350 091
63	2	50	600 - 6000	198 350 062	198 350 077	198 350 092
63	2	50	1000 - 10000	198 350 063	198 350 078	198 350 093
63	2	50	1500 - 15000	198 350 064	198 350 079	198 350 094
75	2 ½	65	2000 - 20000	198 350 065	198 350 080	198 350 095
75	2 ½	65	3000 - 30000	198 350 066	198 350 081	198 350 096
75	2 ½	65	8000 - 60000	198 350 067	198 350 082	198 350 097



Taper tube without scale (1)

d (mm)	Size (inch)	DN (mm)	Scale range (l/h)	PVC-U transparent Code	Polyamid Code	Polysulfon Code
32	1	25	50 - 500	**198 350 255**	**198 350 270**	**198 350 285**
32	1	25	100 - 1000	**198 350 256**	**198 350 271**	**198 350 286**
40	1 ¼	32	150 - 1500	**198 350 257**	**198 350 272**	**198 350 287**
40	1 ¼	32	250 - 2500	**198 350 258**	**198 350 273**	**198 350 288**
50	1 ½	40	200 - 2000	**198 350 259**	**198 350 274**	**198 350 289**
50	1 ½	40	300 - 3000	**198 350 260**	**198 350 275**	**198 350 290**
50	1 ½	40	600 - 6000	**198 350 261**	**198 350 276**	**198 350 291**
63	2	50	600 - 6000	**198 350 262**	**198 350 277**	**198 350 292**
63	2	50	1000 - 10000	**198 350 263**	**198 350 278**	**198 350 293**
63	2	50	1500 - 15000	**198 350 264**	**198 350 279**	**198 350 294**
75	2 ½	65	2000 - 20000	**198 350 265**	**198 350 280**	**198 350 295**
75	2 ½	65	3000 - 30000	**198 350 266**	**198 350 281**	**198 350 296**
75	2 ½	65	8000 - 60000	**198 350 267**	**198 350 282**	**198 350 297**





Insert PVDF (3,4)

d (mm)	Size (inch)	DN (mm)	Scale range (l/h)	top (4) Code	bottom (3) Code
32	1	25	50 - 500	**198 335 970**	**198 335 977**
32	1	25	100 - 1000	**198 335 970**	**198 335 977**
40	1 ¼	32	150 - 1500	**198 335 971**	**198 335 978**
40	1 ¼	32	250 - 2500	**198 335 971**	**198 335 978**
50	1 ½	40	200 - 2000	**198 335 972**	**198 335 979**
50	1 ½	40	300 - 3000	**198 335 972**	**198 335 979**
50	1 ½	40	600 - 6000	**198 335 972**	**198 335 979**
63	2	50	600 - 6000	**198 335 973**	**198 335 980**
63	2	50	1000 - 10000	**198 335 973**	**198 335 980**
63	2	50	1500 - 15000	**198 335 974**	
75	2 ½	65	2000 - 20000	**198 335 975**	
75	2 ½	65	3000 - 30000	**198 335 975**	
75	2 ½	65	8000 - 60000	**198 335 975**	



Guiding rod (10)

Model:

- Only for DN50 (1'500 - 15'000 l/h) and DN65 (all scale ranges)

d (mm)	Size (inch)	DN (mm)	Scale range (l/h)	PVDF Code
63	2	50	1500 - 15000	**198 350 981**
75	2 ½	65	2000 - 20000	**198 350 981**
75	2 ½	65	3000 - 30000	**198 350 981**
75	2 ½	65	8000 - 60000	**198 350 981**



Insert guiding rod PVDF (for 10)

Model:

- Only for DN50 (1'500 - 15'000 l/h) and DN65 (all scale ranges)

d (mm)	Size (inch)	DN (mm)	Scale range (l/h)	for PEEK and stainless steel Code	for PVDF/ SS Code
63	2	50	1500 - 15000		**198 335 953**
75	2 ½	65	2000 - 20000	**198 335 987**	**198 335 954**
75	2 ½	65	3000 - 30000	**198 335 987**	**198 335 954**
75	2 ½	65	8000 - 60000	**198 335 987**	**198 335 954**



Union nut PVC-U

*also for diaphragm valves type 514/DIASTAR, pressure regulating valves type 582/586 and variable area flow
**just for variable area flow meter
***for adaptor unions PVC-U / malleable iron only

	d (mm)	PN (bar)	PVC-U Code	Weight (kg)	Thread size	D (mm)	L (mm)
	10 - 12	16	**721 890 004**	0.009	5/8	19	19
	16	16	**721 890 005**	0.011	3/4	22	21
*	20	16	**721 890 006**	0.020	1	28	23
*	25	16	**721 890 007**	0.020	1 1/4	36	24
*	32	16	**721 890 008**	0.030	1 1/2	41	26
*	40	16	**721 890 009**	0.049	2	53	29
*	50	16	**721 890 010**	0.087	2 1/4	59	34
*	63	16	**721 890 011**	0.138	2 3/4	74	38
	75	10	**721 890 012**	0.256	Tr 108x5	92	40
	90	10	**721 890 013**	0.490	Tr 128x5	110	43
***	90	10	**721 890 023**	0.355	Tr 128x5	105	43
	110	10	**721 890 014**	0.574	Tr 154x6	133	48
**	75		**198 806 429**	0.200			



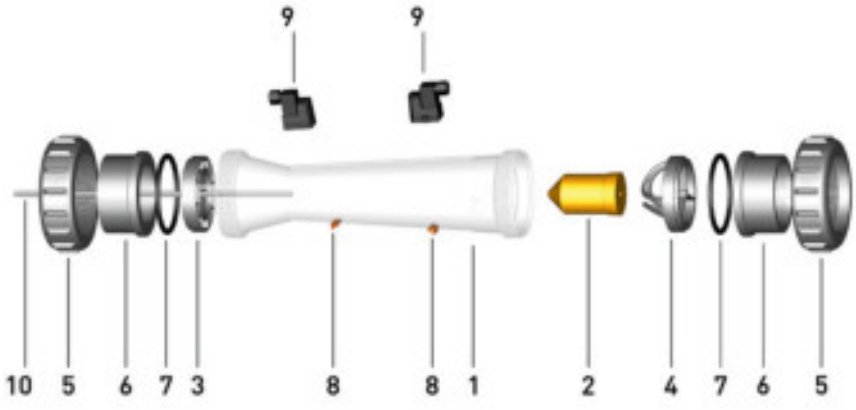
Exchange kit

Model:

- Exchange kit consisting of: guiding rod (PVDF/V4A), insert guiding rod and insert bottom
- Only for DN50 (1'500 - 15'000 l/h) and DN65 (all scale ranges)

d (mm)	Size (inch)	DN (mm)	Scale range (l/h)	Code
63	2	50	1500 - 15000	**198 350 895**
75	2 ½	65	2000 - 20000	**198 350 896**
75	2 ½	65	3000 - 30000	**198 350 896**
75	2 ½	65	8000 - 80000	**198 350 896**

Variable area flow meter type 335





Taper tube with water scale (1)

- PVC-U transparent

d (mm)	Size (inch)	DN (mm)	Scale range (l/h)	PVC-U transparent Code	Polyamid Code	Polysulfon Code
32	1	25	50 - 500	**198 335 055**	**198 335 070**	**198 335 085**
32	1	25	100 - 1000	**198 335 056**	**198 335 071**	**198 335 086**
40	1 ¼	32	150 - 1500	**198 335 057**	**198 335 072**	**198 335 087**
40	1 ¼	32	250 - 2500	**198 335 058**	**198 335 073**	**198 335 088**
50	1 ½	40	200 - 2000	**198 335 059**	**198 335 074**	**198 335 089**
50	1 ½	40	300 - 3000	**198 335 060**	**198 335 075**	**198 335 090**
50	1 ½	40	600 - 6000	**198 335 061**	**198 335 076**	**198 335 091**
63	2	50	600 - 6000	**198 335 062**	**198 335 077**	**198 335 092**
63	2	50	1000 - 10000	**198 335 063**	**198 335 078**	**198 335 093**
63	2	50	1500 - 15000	**198 335 064**	**198 335 079**	**198 335 094**
75	2 ½	65	2000 - 20000	**198 335 065**	**198 335 080**	**198 335 095**
75	2 ½	65	3000 - 30000	**198 335 066**	**198 335 081**	**198 335 096**
75	2 ½	65	8000 - 60000	**198 335 067**	**198 335 082**	**198 335 097**



Taper tube without scale (1)

Scale range (l/h)	d (mm)	Size (inch)	DN (mm)	PVC-U transparent Code	Polyamid Code	Polysulfon Code
50 - 500	32	1	25	**198 335 255**	**198 335 270**	**198 335 285**
100 - 1000	32	1	25	**198 335 256**	**198 335 271**	**198 335 286**
150 - 1500	40	1 ¼	32	**198 335 257**	**198 335 272**	**198 335 287**
250 - 2500	40	1 ¼	32	**198 335 258**	**198 335 273**	**198 335 288**
200 - 2000	50	1 ½	40	**198 335 259**	**198 335 274**	**198 335 289**
300 - 3000	50	1 ½	40	**198 335 260**	**198 335 275**	**198 335 290**
600 - 6000	50	1 ½	40	**198 335 261**	**198 335 276**	**198 335 291**
600 - 6000	63	2	50	**198 335 262**	**198 335 277**	**198 335 292**
1000 - 10000	63	2	50	**198 335 263**	**198 335 278**	**198 335 293**
1500 - 15000	63	2	50	**198 335 264**	**198 335 279**	**198 335 294**
2000 - 20000	75	2 ½	65	**198 335 265**	**198 335 280**	**198 335 295**
3000 - 30000	75	2 ½	65	**198 335 266**	**198 335 281**	**198 335 296**
8000 - 60000	75	2 ½	65	**198 335 267**	**198 335 282**	**198 335 297**

Spare part for variable area flow meter SK50-SK73/SK500-SK730



Short version taper tube Polysulfone

- without scale

d (mm)	DN (mm)	Type	Code
16	10	SK 50 / 500	**198 801 341**
16	10	SK 51 / 510	**198 801 342**
16	10	SK 52 / 520	**198 801 343**
20	15	SK 60 / 600	**198 801 449**
20	15	SK 61 / 610	**198 801 450**
20	15	SK 62 / 620	**198 801 451**
32	25	SK 70 / 700	**198 801 445**
32	25	SK 71 / 710	**198 801 338**
32	25	SK 72 / 720	**198 801 339**
32	25	SK 73 / 730	**198 801 340**



Short version taper tube PVC-U transparent

- without scale

d (mm)	DN (mm)	Type	Code
16	10	SK 50 / 500	**198 803 790**
16	10	SK 51 / 510	**198 803 791**
16	10	SK 52 / 520	**198 803 792**
20	15	SK 60 / 600	**198 803 793**
20	15	SK 61 / 610	**198 803 794**
20	15	SK 62 / 620	**198 803 795**
32	25	SK 70 / 700	**198 803 796**
32	25	SK 71 / 710	**198 803 797**
32	25	SK 72 / 720	**198 803 798**
32	25	SK 73 / 730	**198 803 799**



Short version float PVDF
Without magnet

d (mm)	DN (mm)	Type	Code
16	10	SK 50 / 51 / 52	**198 806 219**
20	15	SK 60 / 61 / 62	**198 806 220**
32	25	SK 70 / 71 / 72 / 73	**198 806 221**

Short version float PVDF
With magnet bistable



d (mm)	DN (mm)	Type	Code
16	10	SK 500 / 510 / 520	**198 806 222**
20	15	SK 600 / 610 / 620	**198 806 223**
32	25	SK 700 / 710 / 720 / 730	**198 806 224**

Short version float PTFE
Without magnet



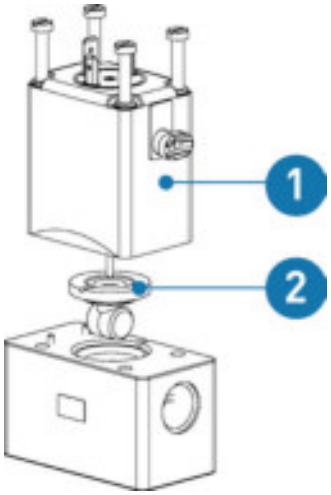
d (mm)	DN (mm)	Type	Code
32	25	SK 73	**198 807 166**

Short version top insert PVDF



d (mm)	DN (mm)	Type	Code
16	10	SK 50 / 500; 51 / 510; 52 / 520	**198 807 188**
20	15	SK 60 / 600; 61 / 610; 62 / 620	**198 807 187**
32	25	SK 70 / 700; 71 / 710; 72 / 720; 73 / 730	**198 807 182**

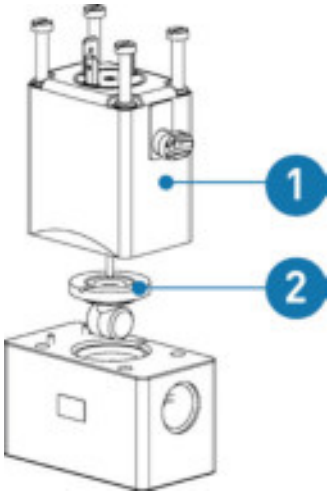
Spare parts solenoid valve type 157



Wear part set (2)
For solenoid valve type 157

e.g. diaphragm

EPDM Code	FKM Code
198 808 012	**198 808 013**



Coil set (1)
For solenoid valve type 157

Voltage	Function	EPDM Code	FKM Code
24V DC	A		**198 808 006**
24V UC	A	**198 808 002**	
230V AC	A	**198 808 004**	

Spare parts solenoid valve type 160/161



Wear part set (3)
For solenoid valve type 160/161

Model:

- Pre-assembled set with angle flange
- Set already pre-lubricated
- Manual override included

d (mm)	DN (mm)	EPDM Code	FKM Code
16	10	**198 808 023**	**198 808 026**
20	15	**198 808 024**	**198 808 027**
25	20	**198 808 025**	**198 808 028**



Actuator Set (2)
For solenoid valve type 160/161

Model:

- Including core and pressure spring

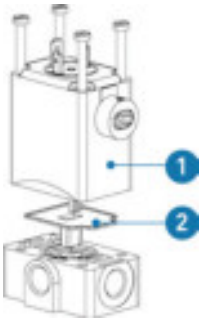
Function	UC Code	50Hz Code
A	**198 808 017**	**198 808 021**
B	**198 808 018**	
E	**198 808 019**	
F	**198 808 020**	**198 808 022**



Coil set (1)
For solenoid valve type 160/161

24V UC Code	230 V UC Code	230 V/ 50Hz Code
198 808 014	**198 808 015**	**198 808 016**

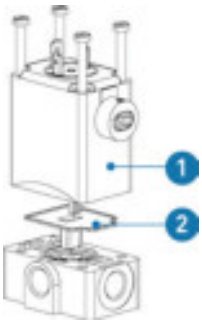
Spare parts solenoid valve type 166



Wear part set (2)
For solenoid valve type 166

e.g. diaphragm

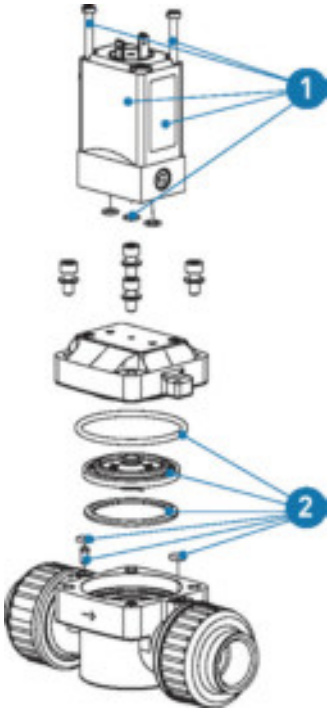
EPDM Code	FKM Code
198 808 053	**198 808 054**



Coil set (1)
For solenoid valve type 166

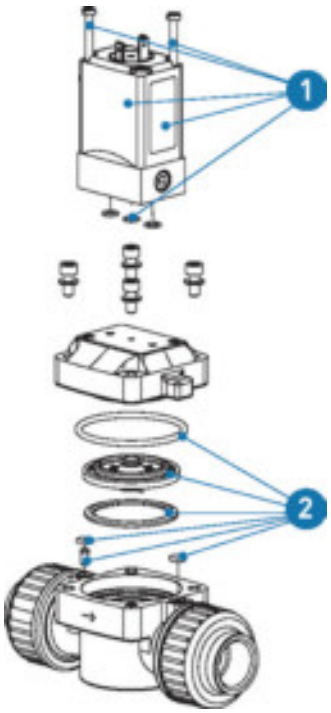
Function	Voltage	FKM Code
C	24V UC	**198 808 049**

Spare parts solenoid valve type 165



Wear part set (2)
For solenoid valve type 165

d-d (mm)	DN-DN (mm)	EPDM Code	FKM Code
20 - 25	15 - 20	**198 808 035**	**198 808 038**
32 - 40	25 - 32	**198 808 036**	**198 808 039**
50 - 63	40 - 50	**198 808 037**	**198 808 040**



Coil set (1)
For solenoid valve type 165

Voltage	EPDM Code	FKM Code
24V DC	**198 808 029**	**198 808 032**
230V AC	**198 808 030**	**198 808 033**
110V AC	**198 808 031**	**198 808 034**

Pressure regulating valve type 582/586





Cartridge
For pressure regulating valve type 582

DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	PP-H EPDM Code	PP-H FKM Code
10-15	**161 489 131**	**161 489 231**	**163 489 131**	**163 489 231**	**167 489 131**	**167 489 231**
20-25	**161 489 133**	**161 489 233**	**163 489 133**	**163 489 233**	**167 489 133**	**167 489 233**
32-50	**161 489 136**	**161 489 236**	**163 489 136**	**163 489 236**	**167 489 136**	**167 489 236**

DN (mm)	PVDF FKM Code	PVDF HP FKM Code
10-15	**185 489 131**	**180 489 131**
20-25	**185 489 133**	**180 489 133**
32-50	**185 489 136**	**180 489 136**



Cartridge
For pressure regulating valve type 586

DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	PP-H EPDM Code	PP-H FKM Code
10-15	**161 489 161**	**161 489 261**	**163 489 161**	**163 489 261**	**167 489 161**	**167 489 261**
20-25	**161 489 163**	**161 489 263**	**163 489 163**	**163 489 263**	**167 489 163**	**167 489 263**
32-50	**161 489 166**	**161 489 266**	**163 489 166**	**163 489 266**	**167 489 166**	**167 489 266**

DN (mm)	PVDF FKM Code	PVDF-HP FKM Code
10-15	**185 489 161**	**180 489 161**
20-25	**185 489 163**	**180 489 163**
32-50	**185 489 166**	**180 489 166**

Cover cap
For pressure regulating valve type 582/586

DN (mm)	Type	Code
10-15	582/586	**198 806 391**
20-25	582/586	**198 806 393**
32-50	582/586	**198 806 396**



SYGEF Standard Manometer Adapter
For pressure regulating valves type 582/586

Model:

- Material: PVDF
- For media separation from pressure gauge to process medium
- PTFE/EPDM Manometer diaphragm
- *EPDM and FKM O-Ring included in Set

DN (mm)	EPDM/FKM Code	FKM white (HP) Code
10-50	**198 806 650**	**198 806 654**



Manometer
For pressure regulating valves type 582/586

Model:

- Display with double scale: 0-4 bar / 0-58 psi, size: ø 40mm
- Display with double scale: 0-10bar / 0-150psi, size: ø 40mm
- Connection G 1/4 center back mount

DN (mm)	Material	EPDM/FKM 0-10bar Code	FKM white (HP) 0-10bar Code	EPDM/FKM 0-4bar Code
10-50	Brass	**198 806 651**	**198 806 655**	**198 806 963**
10-50	Stainless Steel	**198 806 652**	**198 806 656**	**198 806 962**

Manometer plug
For pressure regulating valves type 582/586

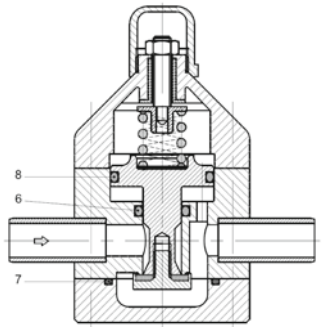
- For maintenance

DN (mm)	Code
10-50	**198 806 653**

Hook wrench

DN (mm)	Type	Code
10-15	582/586	**198 806 451**
20-25	582/586	**198 806 452**
32-50	582/586	**198 806 453**

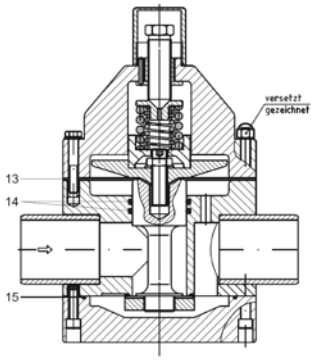
Pressure reducing valve type V182/82



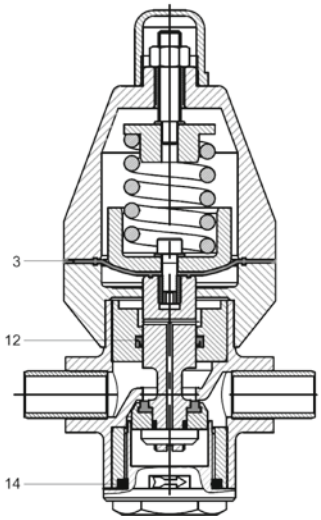
Model:

- Spare part kit contains: diaphragm and o-rings

Type	DN-DN (mm)	EPDM Code	FKM Code	PTFE Code
V182	10 - 15	**700 254 285**	**700 254 289**	
V182	20 - 25	**700 254 286**	**700 254 290**	
V182	32 - 40	**700 254 287**	**700 254 291**	
V182	50	**700 254 288**	**700 254 292**	
V82	65	**700 254 404**		**700 254 308**
V82	80	**700 254 405**		**700 254 309**
V82	100	**700 254 406**		**700 254 310**



Pressure reducing valve type V782



Model:

- Spare part kit contains: diaphragm and o-rings

Type	DN-DN (mm)	EPDM Code	PTFE Code
V782	10 - 15	**700 254 318**	**700 254 321**
V782	20 - 25	**700 254 319**	**700 254 322**
V782	32 - 40	**700 254 320**	**700 254 323**

Pressure relief valve type V185/85

Model:

- Spare part kit contains: diaphragm

Type	DN-DN (mm)	EPDM Code	PTFE Code
V185	10 - 20	**700 254 333**	**700 254 339**
V185	25 - 32	**700 254 334**	**700 254 340**
V185	40 - 50	**700 254 335**	**700 254 341**
V85	65	**700 254 336**	**700 254 342**
V85	80	**700 254 337**	**700 254 343**
V85	100	**700 254 338**	**700 254 344**

Pressure retaining valve type V186/86

Model:

- Spare part kit contains: diaphragm

Type	DN-DN (mm)	EPDM Code	PTFE Code
V185/186	10 - 20	**700 254 333**	**700 254 339**
V185/186	25 - 32	**700 254 334**	**700 254 340**
V185/186	40 - 50	**700 254 335**	**700 254 341**
V86	65	**700 254 376**	**700 254 379**
V86	80	**700 254 377**	**700 254 380**
V86	100	**700 254 378**	**700 254 381**

Pressure retaining valve type V786

Model:

- Spare part kit contains: diaphragm

Type	DN-DN (mm)	EPDM Code	PTFE Code
V786	10 - 15	**700 254 389**	**700 254 392**
V786	20 - 25	**700 254 390**	**700 254 393**
V786	32 - 40	**700 254 391**	**700 254 394**

General Condition of Supply of Georg Fischer Piping Systems Limited, Schaffhausen

1 General

1.1 These General Conditions shall apply to all Products supplied by Georg Fischer Piping Systems Limited («Georg Fischer») to the Purchaser.
They shall also apply to all future business even when no express reference is made to them.

1.2 Any deviating or supplementary conditions especially Purchaser's general conditions of purchase and verbal agreements shall only be applicable if accepted in writing by Georg Fischer.

1.3 The written form shall be deemed to be fulfilled by all forms of transmission, evidenced in the form of text, such as telefax, e-mail, etc.

2 Tenders

Tenders shall only be binding if they contain a specifically stated period for acceptance.

3 Scope of Delivery

3.1 Georg Fischer's product range is subject to change.

3.2 The confirmation of order shall govern the scope and execution of the contract.

4 Data and Documents

4.1 Technical documents such as drawings, descriptions, illustrations and data on dimensions, performance and weight as well as the reference to standards are for information purposes only. They are not warranted characteristics and are subject to change.

4.2 All technical documents shall remain the exclusive property of Georg Fischer and may only be used for the agreed purposes or as Georg Fischer may consent.

5 Confidentiality, Protection of Personal Data

5.1 Each party shall keep in strict confidence all commercial or technical information relating to the business of the other party, of which it has gained knowledge in the course of its dealing with the other party. Such information shall neither be disclosed to third parties nor used for other purposes than those for which the information has been supplied.

5.2 In the context of the contractual relation with the Purchaser personal data may be processed. The Purchaser agrees to the disclosure of said data to third parties such as foreign subcontractors and suppliers etc .

6 Local Laws and Regulations, Export Controls

6.1 The Purchaser shall bring to the attention of Georg Fischer all local laws and regulations at the place of destination which bear connection with the execution of the contract and the adherence to relevant safety regulations and approval procedures.

6.2 In case of re-exports, Purchaser shall be responsible for compliance with pertinent export control regulations.

7 Price

7.1 Unless agreed otherwise, the prices shall be deemed quoted net ex works (according to Incoterms 2010 of the ICC, or latest version) including standard packing. All supplementary costs such as the cost of carriage, insurance, export-, transit- and import- licences etc. shall be borne by the Purchaser. The Purchaser shall also bear the costs of all taxes, fees, duties etc. connected with the contract.

7.2 If the costs of packing, carriage, insurance, fees and other supplementary costs are included in the tender price or contract price or are referred to specifically in the tender or confirmation of order, Georg Fischer reserve the right to revise their prices accordingly should any change occur in the relevant tariffs.

8 Terms of Payment

8.1 The Purchaser shall make payment in the manner agreed by the parties without any deductions such as discounts, costs, taxes or dues.

8.2 The Purchaser may only withhold or off-set payments due against counter claims which are either expressly acknowledged by Georg Fischer or finally awarded to the Purchaser.
In particular, payment shall still be made when unessential items are still outstanding provided that the Products already delivered are not rendered unusable as a result.

9 Retention of Title

9.1 The Products shall remain the property of Georg Fischer until the Purchaser shall have settled all claims, present and future, which Georg Fischer may have against him.

9.2 Should the Purchaser resell Products to which title is reserved, in the ordinary course of business, he shall hereby be deemed to have tacitly assigned to Georg Fischer the proceeds deriving from their sale together with all collateral rights, securities and reservations of title until all claims held by Georg Fischer shall have been settled. Until revoked by Georg Fischer, this assignment shall not preclude Purchaser's right to collect the assigned receivables.

9.3 To the extent the value of the Products to which title is reserved together with collateral securities exceeds Georg Fischer's claims against the Purchaser by more than 20%, Georg Fischer shall re-assign the above proceeds to Purchaser at his request.

10 Delivery

10.1 The term of delivery shall commence as soon as the contract has been entered into, all official formalities such as import and payment permits have been obtained and all essential technical issues have been settled. The term of delivery shall be deemed duly observed when, upon its expiry, the Products are ready for despatch.

10.2 Delivery is subject to the following conditions, i.e. the term of delivery shall be reasonably extended:

a) if Georg Fischer are not supplied in time with the information necessary for the execution of the contract or if subsequent changes causing delays are made by the Purchaser.

b) if Georg Fischer are prevented from performing the contract by force majeure. Force majeure shall equally be deemed to be any unforeseeable event beyond Georg Fischer's control which renders Georg Fischer's performance commercially unpractical or impossible, such as delayed or defective supplies from sub contractors labour disputes, governmental orders or regulations, shortages in materials or energy, serious disturbances in Georg Fischer's works, such as the total or partial destruction of plant and equipment or the breakdown of essential facilities, serious disruptions in transport facilities, e.g. impassable roads.
Should the effect of force majeure exceed a period of six (6) months, either party may cancel the contract forthwith.
Georg Fischer shall not be liable for any damage or loss of any kind whatsoever resulting the refrom, any suspension or cancellation being without prejudice to Georg Fischer's right to recover all sums due in respect of consignments delivered and costs incurred to date.

c) if the Purchaser is in delay with the fulfilment of his obligations under the contract, in particular, if he does not adhere to the agreed conditions of payment or if he has failed to timely provide the agreed securities.

10.3 If for reasons attributable to Georg Fischer the agreed term of delivery or a reasonable extension thereof is exceeded, Georg Fischer shall not be deemed in default until the Purchaser has granted to Georg Fischer in writing a reasonable extension thereof of not less than one (1) month which equally is not met.
The Purchaser shall then be entitled to the remedies provided at law, it being however understood that, subject to limitations of Art. 16, damage claims shall be limited to max. 10% of the price of the delayed delivery.

10.4 Part shipments shall be allowed and Georg Fischer shall be entitled to invoice for such partial deliveries.

10.5 If the Purchaser fails to take delivery within a reasonable time of Products notified as ready for despatch, Georg Fischer shall be entitled to store the Products at the Purchaser's expense and risk and to invoice them as delivered. If Purchaser fails to effect payment, Georg Fischer shall be entitled to dispose of the Products.

10.6 Should Purchaser cancel an order without justification and should Georg Fischer not insist on the performance of the contract, Georg Fischer shall be entitled to a penalty amounting to 10% of the contract price, Georg Fischer's right to prove and claim higher damages remaining reserved. Purchaser shall be entitled to prove, that Georg Fischer has suffered no or a considerably lower damage than the penalty forfeited.

11 Packing

If the Products are provided with additional packing over and above the standard packing, such packing shall be charged additionally.

12 Passing of Risk

12.1 The risk in the Products shall pass to the Purchaser as soon as they have left Georg Fischer's works (EX WORKS, Incoterms 2010 ICC, or latest version), even if delivery is made carriage-paid, under similar clauses or including installation or when carriage is organized and managed by Georg Fischer.

12.2 If delivery is delayed for reasons beyond Georg Fischer's control, the risk shall pass to the Purchaser when he is notified that the Products are ready for despatch.

13 Carriage and Insurance

13.1 Unless agreed otherwise, the Purchaser shall bear the cost of carriage.

13.2 The Purchaser shall be responsible for transport insurance against damage of whatever kind. Even when such insurance is arranged by Georg Fischer it shall be deemed taken out by the order of and for the account of the Purchaser and at his risk.

13.3 Special requests regarding carriage and insurance shall be communicated to Georg Fischer in due time. Otherwise carriage shall be arranged by Georg Fischer at their discretion, but without responsibility, by the quickest and cheapest method possible.
In case of carriage-paid delivery transport arrangements shall be made by Georg Fischer. If the Purchaser specifies particular requirements, any extra costs involved shall be borne by him.

13.4 In the event of damage or loss of the Products during carriage the Purchaser shall mark the delivery documents accordingly and immediately have the damage ascertained by the carrier. Not readily ascertainable damages sustained during carriage shall be notified to the carrier within six (6) days after receipt of the Products.

14 Inspection, Notification of Defects and Damages

14.1 The Products will be subject to normal inspection by Georg Fischer during manufacture. Additional tests required by the Purchaser shall be agreed upon in writing and shall be charged to the Purchaser.

14.2 It shall be a condition of Georg Fischer's obligation under the warranties stated hereinafter that Georg Fischer be notified in writing by the Purchaser of any purported defect immediately upon discovery. Notice concerning weight, numbers or apparent defects is to be given latest within 30 days from receipt of the Products, notice of other defects immediately latest within seven (7) working days after discovery, in any event within the agreed warranty period.

14.3 Purchaser shall not dispose of allegedly defective Products until all warranty and/or damage claims are finally settled. At its request, defective Products are to be placed at Georg Fischer's disposal.

14.4 At its request, Georg Fischer shall be given the opportunity to inspect the defect and/or damage, prior to commencement of remedial work, either itself or by third party experts.

15 Warranty

15.1 At the written request of the Purchaser, Georg Fischer undertakes to repair or replace at its discretion, as quickly as possible and free of charge, all Products supplied which demonstrably suffer from faulty design, materials or workmanship, from faulty operating or installation instructions or which become defective or unusable due to faulty advice.
In order to protect employees from toxic or radioactive substances which may have been transported through defective parts returned to Georg Fischer's sales organisation, said parts must be accompanied by a Material Safety Disclosure Form. The form may be obtained from Georg Fischer's local sales company or via www.piping.georgfischer.com.
Replaced parts shall become property of Georg Fischer, unless Georg Fischer waives such claim.

15.2 For Products which are manufactured to specifications, drawings or patterns supplied by the Purchaser, Georg Fischer's warranty shall be restricted to proper materials and workmanship.

15.3 The Purchaser shall be entitled to rescind the contract or to demand a reduction of the contract price if
- the repair or replacement of the defective Product is impossible
- the defective Product is not repaired or replaced within a reasonable period
- Georg Fischer refuses the repair or replacement or if for reasons attributable to Georg Fischer the repair or replacement is delayed.

15.4 For Products or essential components manufactured by a third party and supplied by Georg Fischer under this contract, Georg Fischer's warranty is limited to the warranty provided by said third party.

15.5 This warranty shall not apply to damage resulting from normal wear and tear, improper storage and maintenance, failure to observe the operating instructions, overstressing or overloading, unsuitable operating media, unsuitable construction work or unsuitable building ground, improper repairs or alterations by the Purchaser or third parties, the use of other than original spare parts and other reasons beyond Georg Fischer's control.

15.6 No action or claim may be brought by the Purchaser on account of any alleged breach of warranty or any other obligation of Georg Fischer after the expiration of twelve (12) months from receipt of the Products by the end user or at the latest within eighteen (18) months of the Products being despatched by Georg Fischer.

15.7 In case of Products for use in domestic installations or in utilities
- Georg Fischer will assume the costs of dismantling the defective Product and restoring the damaged object up to CHF 1'000'000 per occurrence.
- warranty or damage claims - contrary to Section 15.6 – are time-barred five (5) years from the date of installation or seven (7) years from the production date, whichever is earlier.

16 Limitation of Liability

The rights and remedies of the customer shall be exclusively governed by these General Conditions of Supply and shall be in lieu of any remedies at law. All further claims for damages, reduction of the purchase price, termination of or rescission of the contract are excluded.
In no case whatsoever shall the customer be entitled to claim damages other than compensation for costs of remedying defects in the supplies. This in particular refers, but shall not be limited, to loss of production, loss of use, loss of orders, loss of profit, third party recovery claims and other direct or indirect or consequential damages.
This limitation of liability equally applies to the extent Georg Fischer is liable for acts or omissions of its employees or third parties engaged for the performance of its obligations. It does not apply in case unlawful intent or gross negligence on the part of Georg Fischer's management and in case of Georg Fischer's statutory liability, in particular under applicable product liability laws.

17 Severability

Should any term or clause of these General Conditions in whole or in part be found to be unenforceable or void, all other provisions shall remain in full force and effect and the unenforceable or void provision shall be replaced by a valid provision, which comes closest to the original intention of the unenforceable or invalid provision.

18 Place of Performance and Jurisdiction

18.1 Place of performance for the Products shall be the Georg Fischer works from which the Products are despatched.

18.2 The contract shall be governed by Swiss law without regard to conflict of law provisions that would require the application of another law.

18.3 Any civil action based upon any alleged breach of this contract shall be filed and prosecuted exclusively in the courts of Schaffhausen, Switzerland.
Georg Fischer however reserves the right to file actions in any court having jurisdiction over controversies arising out of or in connection with the present contract.

03/2011

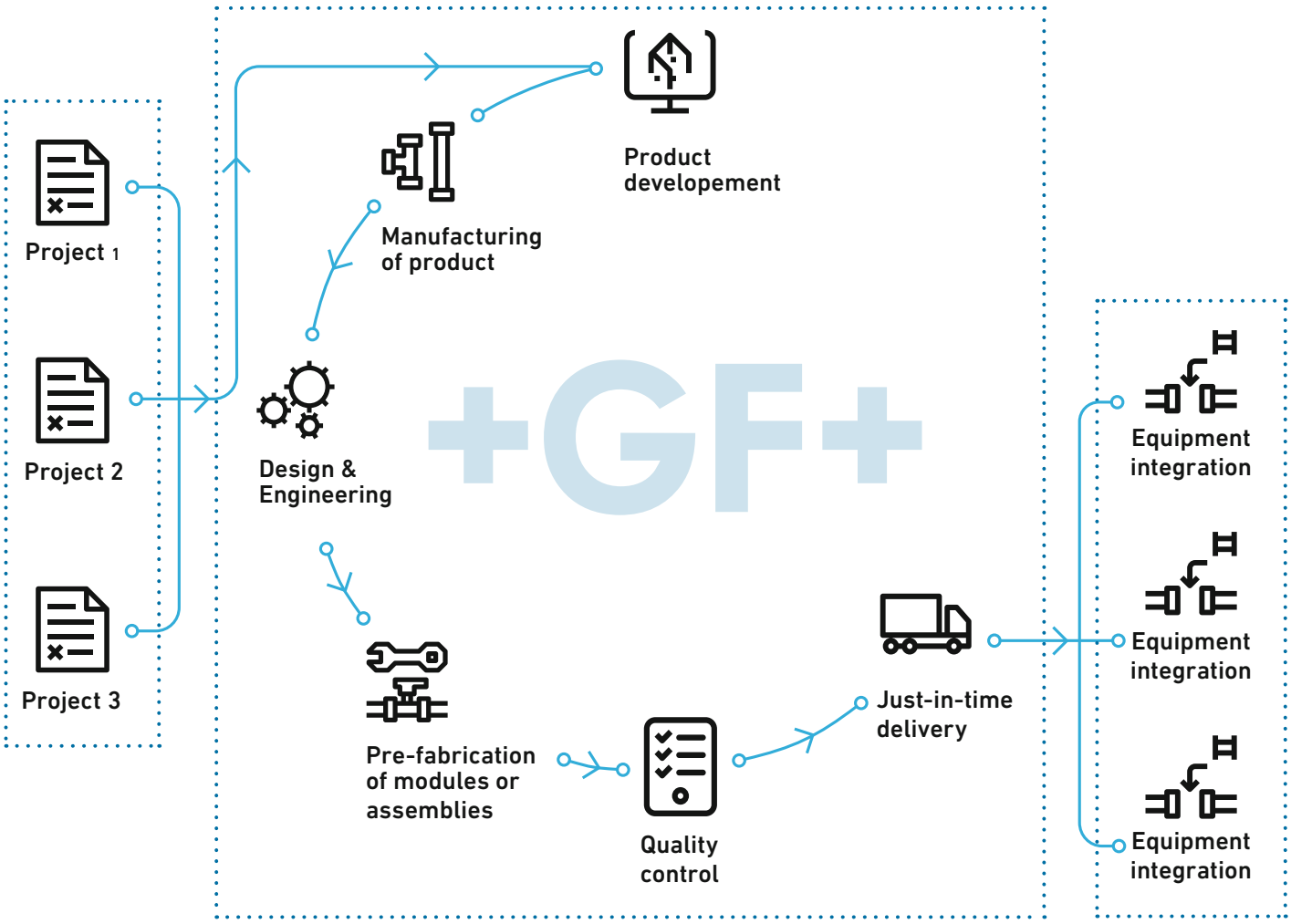
List of abbreviations

ANSI	American National Standard
ASTM	American Society for Testing and Materials
BS	British Standard
DIN	Deutsche Industrie-Normen
ISO	International Standardization Organisation
ABS	Acrylnitril Butadien Styrene
PVC-U	Polyvinyl Chloride
PVC-C	Polyvinyl Chloride chlorinated
PP	Polypropylene, heat stabilised
PE	Polyethylene
PVDF	Polyvinylidene fluoride
EPDM	Ethylene Propylene Rubber
FPM	Fluorine Rubber, e.g. Viton®
NBR	Nitrile Rubber
IIR	Butyl Rubber
CSM	Chlore Sulphonyl Polythene, e.g. Hypalon®
CR	Chloroprene Rubber, e.g. Neoprene®
PTFE	Polytetrafluorethylene, e.g. Teflon®
PBTP	Polybutylene terephthalate
UP-GF	Unsaturated polyester resin glassfibre reinforced
St	Steel
Ms	Brass
Tg	Malleable Iron

d	Pipe outside diameter
DN	Nominal bore
PN	Nominal pressure at 20°C, water
kg	Weight in kilograms
SP	Standard pack. The figure given indicates the quantity of fittings contained in a standard pack
GP	Gross pack. The figure given indicates the quantityof fittings contained in a gross pack
G	Pipe thread, not pressure tight in the thread to ISO 228-1
NPT	Taper male thread pressure tight in the thread to ANSI B 1.20.1
R	Taper male thread, pressure tight in the thread to ISO 7-1/DIN 2999-1
Rc	Taper female thread, pressure tight in the thread to ISO 7-1/DIN 2999-1
Rp	Parallel female thread, pressure tight in the thread to ISO 7-1/DIN 2999-1
Tr	Trapezoid thread
SC	Size of hexagon bolts
s	A/F
e	Wall thickness
AL	Number of bolt holes
®	Registered trade-mark

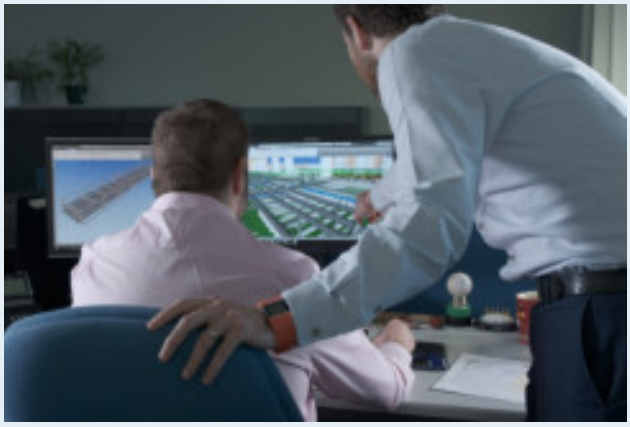
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At GF we manage the entire supply chain process from raw materials to final pre-fabricated components, passing by the operation of extrusion and injection molding factories and dozens of GF-owned pre-fabrication facilities across the globe.
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