Product range PVC-U

Ball valve type 375 metric, BS, ASTM







List of Abbreviations

ASTM American Society for Testing and Materials

BS British Standard

DIN Deutsches Institut für Normung e.V.

EN Europäische Norm

ISO International Standardization Organization

PVC-U Polyvinyl chloride, unplasticized

PE Polyethylene

EPDM Ethylene-Propylene-Rubber FPM Fluororubber, e.g. Viton®

PTFE Polytetrafluoroethylene, e.g. Teflon®

d Pipe outer diameterDN Nominal diameter

PN Nominal pressure at 20 °C, water

kg Weight in kilograms

Registered trademark

The technical data are not binding and not expressly warranted characteristics of the goods. They are subject to change. Our General Conditions of Sale apply.

Dimensions

All dimensions are given in mm.

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Ball valve type 375

With the Type 375 ball valve, GF Piping Sytems now have a new addition to their existing ball valve range. The ball valve 375 is ideally suited for basic applications encompassing the water processing/treatment sector, as well as other applications involving water.



Features:

- Material PVC-U
- DN10 DN100
- Pressure rates

DN10 - DN50 = PN16

DN65 - DN100 = PN10

- O-Ring Material EPDM / FPM
- Actuator unit not connectable

The ball valve type 375 conforms to the following international standards:

EN ISO 16135 Industrial valves – Ball valves of

thermoplastic materials

ISO 9393 Thermoplastic valves – pressure test

methods and requirements

EN 558 Flanged valve dimensions are

in accordance with EN 558

Approvals:

NSF 61 NSF international

ACS Attestation de conformité sanitaire WRAS Water regulations advisory sheme

End connectors:

Solvent cement socket	Norm
,GF*	ISO, BS, ASTM, JIS

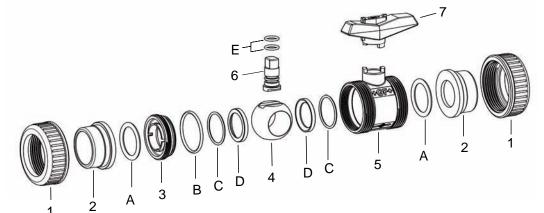
Threaded socket	Norm
GFT	ISO / BS (Rp), ASTM (NPT)

Butt fusion spigot PE100 SDR11 long	Norm
	ISO

PVC-U Flanges	Norm
	ISO (fixed flange), BS (fixed flange), ASTM (backing flange US modified)

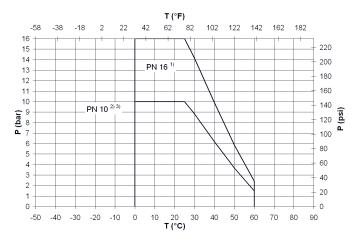
Technical features

Single parts ball valve type 375:



- 1 Union nut
- 2 End connector
- 3 Union bushing
- 4 Ba
- 5 Body
- 6 Stem
- 7 Lever
- A Face seal
- B Body seal
- C Backing seal D Ball seal
- E Stem seal

Max working pressure:



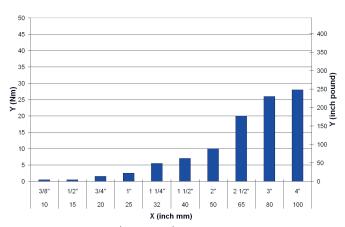
Comments:

The pressure-temperature diagrams are based on a service life of 25 years and apply to water or similar media.

- 1) For nominal dimensions of DN10 DN50, the central body of the ball valve is designed for nominal pressure PN16
- 2) For nominal dimensions of DN65 DN100, the central body of the ball valve is designed for nominal pressure PN10
- 3) Depending on the end connection, at nominal dimensions of DN10 DN50, the nominal pressure reduces to PN10

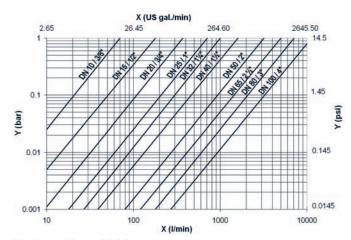
p permissible operating pressure in bar, psi T Temperature in °C, °F

Torque:



X Nominal width DN (mm, inch)
Y Torque (Nm, inch pound)
Guide values at nominal pressure

Pressure loss:



Medium: Water, 20 °C X flow rate l/min], (US gal./min) Y pressure loss Δp (bar), (psi)

PVC-U metric

Ball valve type 375 PVC-U With solvent cement sockets metric





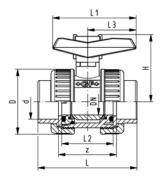
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168

- For easy installation and removal
- z-dimension, valve end and union nut are not compatible with type 546
- Ball seals PTFE
- · Actuator unit not connectable

Range of use:

· Basic applications of the water treatment sector as well as other applications involving water.



									,	
d [mm]	DN [mm]	PN	kv-val (∆p=1 [l/min]		EPDN Code	1	FPN		kg	
16	10	16		71	161 3	75 501	161	375 511	0.130	
20	15	16		185	161 3	75 502	161	375 512	0.130	
25	20	16		350	161 3	75 503	161	375 513	0.210	
32	25	16		700		75 504		375 514	0.310	
40	32	16		1000	161 3	75 505	161	375 515	0.450	
50	40	16		1600		75 506	1	375 516	0.690	
63	50	16		3100		75 507	1	375 517	1.200	
75	65	10		5000		75 508		375 518	2.190	
90	80	10		7000		75 509		375 519	3.360	
110	100	10	1	1000	161 3	75 510	161	375 520	6.060	
d [mm]	D [mm]	H [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Z [mm]			
16	50	53	76	67	42	40	48			
20	50	53	80	67	42	40	48			
25	59	60	1	77	48	45	53			
32	68	67	1	87	54	51	58			
40	80	79	120	102	62	59	68			
50	94	90		119		70	78			
63	115	107	169	146	86	84	93			



Ball valve type 375 PVC-U With threaded sockets Rp

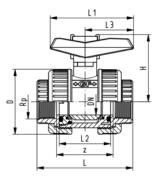


Model:

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- z-dimension, valve end and union nut are not compatible with type 546
 Ball seals PTFE
- · Actuator unit not connectable

Range of use:

· Basic applications of the water treatment sector as well as other applications involving water.



Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg	
3/8	10	10	71	161 375 521	161 375 531	0.130	
1/2	15	10	185	161 375 522	161 375 532	0.130	1
3/4	20	10	350	161 375 523	161 375 533	0.210	
1	25	10	700	161 375 524	161 375 534	0.300	
1 1/4	32	10	1000	161 375 525	161 375 535	0.450	
1 ½	40	10	1600	161 375 526	161 375 536	0.680	
2	50	10	3100	161 375 527	161 375 537	1.190	
2 ½	65	10	5000	161 375 528	161 375 538	2.150	
3	80	10	7000	161 375 529	161 375 539	3.300	
4	100	10	11000	161 375 530	161 375 540	5.890	
_	_		1. 1.4	1.0			

		. •					1	 0.000							
Rp [inch]	D [mm]	H [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	z [mm]								
3/8 1/2	50 50	53 53	76 80	67 67	42 42	40 40	48 48								
3/4	59	60	91	77 87	48	45	53								
1 1 ¼	68 80	67 79	102 116	102	54 62	51 59	58 68								
1 ½ 2	94	90 107	126 149	119 146	72 86	70 84	78 93								
2 ½ 3	145 168	129 143	184 212	179 209	110 128	103 120	118 140								
4	210	169	244	250	1	141	160								



Ball valve type 375 PVC-U With butt fusion spigots long PE100 SDR11 metric

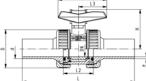
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8.2 10.0







Model:For easy installation and removal

- z-dimension, valve end and union nut are not compatible with type 546
- Ball seals PTFE
- · Actuator unit not connectable

Range of use:

Basic applications of the water treatment sector as well as other applications involving water.

wate	1.								
DN [mm]	PN							kg	
15	16		185			1 -		0.150	
						1 -			
32	16		1000			1 -		0.450	
40	16		1600	161 3	75 546	161	375 556	0.740	
50	16		3100	161 3	75 547	′ 161 ∶	375 557	1.255	
65	10					1 -		2.400	
						1 -			
100	10	1	1000	161 3	75 550	161	375 560	6.420	
D [mm]	H [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	e [mm]			
95 105 115	60	195	67 77 87	42 48 54	40 45 51	1.8 2.3 2.9			
	DN [mm] 15 20 25 32 40 50 65 80 100 D [mm] 95 105	[mm] 15 16 20 16 25 16 32 16 40 16 50 16 65 10 80 10 100 10 D H [mm] H [mm] 95 53 105 60	DN [mm] PN (Δp=1) 15 16 20 16 25 16 32 16 40 16 50 16 65 10 80 10 100 10 1 D (mm) H (mm) L (mm) 95 53 175 105 60 195	DN	DN [mm] PN (Δp=1 bar) kv-value (Δp=1 bar) EPDN Code 15 16 185 161 3 20 16 350 161 3 25 16 700 161 3 32 16 1000 161 3 40 16 1600 161 3 50 16 3100 161 3 65 10 5000 161 3 80 10 7000 161 3 100 10 11000 161 3 D H L L1 L2 [mm] [mm] [mm] [mm] 95 53 175 67 42 105 60 195 77 48	DN PN kv-value (Δp=1 bar) Code 15	DN	DN	DN PN kv-value (Δp=1 bar) Code Code Code Kg 15



Ball valve type 375 PVC-U With fixed flanges PVC-U serrated metric



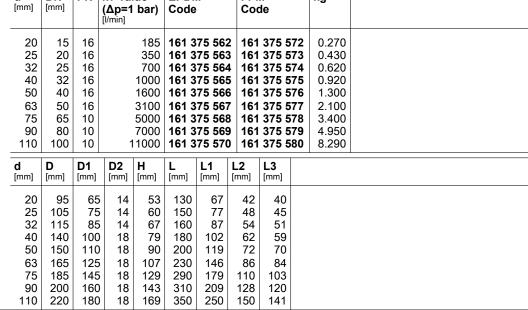
Model:

- · For easy installation and removal
- z-dimension, valve end and union nut are not compatible with type 546
- Ball seals PTFE
- Actuator unit not connectable
- Overall length according to EN 558
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Range of use:

· Basic applications of the water treatment sector as well as other applications involving water.

ıı ıg	wate	1.									
d [mm]	DN [mm]		kv-va (∆p=1 ^[l/min]		EPDI Code		FPI			kg	
20	15	16		185	161 3	75 562	2 161	375 5	72	0.270	
25	20	16		350	161 3	75 56	3 161	375 5	73	0.430	
32	25	16		700	161 3	75 564	4 161	375 5	74	0.620	
40	32	16		1000	161 3	75 56	5 161	375 5	75	0.920	
50	40	16		1600	161 3	75 56	6 161	375 5	76	1.300	
63	50	16		3100	161 3	75 56	7 161	375 5	77	2.100	
75	65	10		5000	161 3	75 56	B 161	375 5	78	3.400	
90	80	10		7000	161 3	75 569	9 161	375 5	79	4.950	
110	100	10	1	1000	161 3	75 570	161	375 5	80	8.290	
d	D	D1	D2	Н	L	L1	L2	L3			
[mm]	[mm]	[mm]	[mm]	[mm]	_ [mm]	[mm]	[mm]	[mm]			
20 25	95 105	65 75	1	53 60	130 150	67 77	42 48	40 45			



PVC-U Inch BS

Ball valve type 375 PVC-U With solvent cement sockets Inch BS



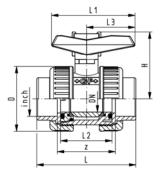


Model:

- For easy installation and removal
- z-dimension, valve end and union nut are not compatible with type 546
- Ball seals PTFE
- · Actuator unit not connectable

Range of use:

 · Basic applications of the water treatment sector as well as other applications involving water.



Inch	DN [mm]	PN	kv-val (∆p=1 ^[l/min]		EPDN Code		FPN Cod		kg	
3/8	10	16		71	161 3	75 601	161	375 611	0.130	
1/2	15	16		185	161 3	75 602	161	375 612	0.130	
3/4	20	16		350		75 603	_	375 613	0.210	
1	25	16		700		75 604	_	375 614	0.310	
1 1/4	32	16		1000		75 605		375 615	0.450	
1 1/2	40	16		1600		75 606	1	375 616	0.690	
2	50	16		3100		75 607	1	375 617	1.200	
_	65	10		5000		75 508	_	375 518	2.190	
3	80	10		7000		75 609	_	375 619	3.360	
4	100	10	1	1000	161 3	75 610	161	375 620	6.060	
Inch	D [mm]	H [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Z [mm]			
3/8	50	53	76	67	42	40	48			
1/2	50	53		67	42	40	48			
3/4	59	60	91	77	48	45	53			
1	68	67	102	87	54	51	58			
1 1/4	80	79	120	102	62	59	68			
1 1/2	94	90		119	72	70	78			
2	115	107	169	146	86		93			

PVC-U ASTM/ANSI



Ball valve type 375 PVC-U With solvent cement sockets Inch ASTM Inclusive 2 threaded valve ends NPT

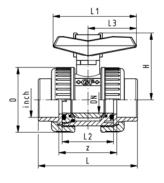


Model

- For easy installation and removal
- z-dimension, valve end and union nut are not compatible with type 546
- Ball seals PTFE
- Actuator unit not connectable
- Threaded valve ends are only enclosed for DN10/15-50

Range of use:

• Basic applications of the water treatment sector as well as other applications involving water.



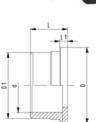
Inch	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	kg
3/8	10	16	71	161 375 001	161 375 016	0.156
1/2	15	16	185		161 375 017	0.154
3/4	20	16	350	161 375 003	161 375 018	0.250
1	25	16	700	161 375 004	161 375 019	0.363
1 1/4	32	16	1000	161 375 005	161 375 020	0.536
1 1/2	40	16	1600	161 375 006	161 375 021	0.838
2	50	16	3100	161 375 007	161 375 022	1.405
2 ½	65	10	5000	161 375 008	161 375 023	2.190
3	80	10	7000	161 375 009	161 375 024	3.360
4	100	10	11000	161 375 010	161 375 025	6.060
	1_		1. 1			

	_						
Incl		H	L	L1	L2	L3	Z
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
3	% 5C	53	76	67	42	40	48
1	/2 50	53	80	67	42	40	48
3	59	60	91	77	48	45	53
	1 68	67	102	87	54	51	58
1 1	/4 80	79	120	102	62	59	68
1 1	/2 94	90	140	119	72	70	78
	2 115	107	169	146	86	84	93
2 1	/2 145	129	206	179	110	103	118
	3 168	143	242	209	128	120	140
	4 210	169	282	250	150	141	160

Valve ends ball valve type 375



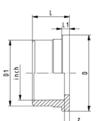
Valve end 375 PVC-U With solvent cement socket metric



d [mm]	DN [mm]	PN	Code	kg	D [mm]	D1 [mm]	L [mm]	L1 [mm]	Z [mm]	
16	10	16	161 375 901	0.011	35	26	18	5	4	
20	15	16	161 375 902	0.010	35	29	18	5	2	
25	20	16	161 375 903	0.017	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	0.062	72	62	34	7	3	
63	50	16	161 375 907	0.102	89	76	41	7	3	
75	65	10	161 375 908	0.180	115	90	47	8	3	
90	80	10	161 375 909	0.280	133	106	56	10	5	
110	100	10	161 375 910	0.450	166	130	66	12	5	



Valve end 375 PVC-U With solvent cement socket BS



Inch	PN	Code	kg	D [mm]	D1 [mm]	L [mm]	L1 [mm]	Z [mm]
3/8	16	161 375 911	0.012	35	26	18	5	4
1/2	16	161 375 912	0.012	35	29	18	5	2
3/4	16	161 375 913	0.017	43	35	21	5	2
1	16	161 375 914	0.025	51	43	24	6	2
1 1/4	16	161 375 915	0.042	60	52	29	6	2
1 1/2	16	161 375 916	0.062	72	62	34	7	3
2	16	161 375 917	0.102	89	76	41	7	3
	10	161 375 908	0.180	115	90	47	8	3
3	10	161 375 919	0.280	133	106	56	10	5
4	10	161 375 920	0.450	166	131	66	12	5

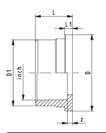


Valve end 375 PVC-U With solvent cement socket ASTM

D

kg

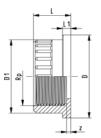
Inch PN Code



			"	[mm]	[mm]	[mm]	[mm]	[mm]	
							_		
3/8	16	161 375 427	0.013	35	26	23	5	4	
1/2	16	161 375 428	0.012	35	29	25	5	2	
3/4	16	161 375 429	0.020	43	35	28	5	2	
1	16	161 375 430	0.029	51	43	31	6	2	
1 1/4	16	161 375 431	0.043	60	53	34	6	2	
1 ½	16	161 375 432	0.074	72	62	38	7	3	
2	16	161 375 433	0.117	89	76	41	7	3	
2 ½	10	161 375 434	0.192	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	

D1 L L1 z





Valve end 375 PVC-U With threaded socket Rp

Model:

- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U

Rp [inch]	PN	Code	kg	D [mm]	D1 [mm]	L [mm]	L1 [mm]	Z [mm]
3/8	10	161 375 921	0.010	35	26	18	5	7
1/2	10	161 375 922	0.010	33	30	18	5	3
3/4	10	161 375 923	0.017	43	36	21	5	5
1	10	161 375 924	0.027	51	44	24	6	5
1 1/4	10	161 375 925	0.040	60	53	27	6	6
1 1/2	10	161 375 926	0.062	72	63	27	7	6
2	10	161 375 927	0.102	89	77	31	7	5
2 ½	10	161 375 928	0.159	115	90	36	8	6
3	10	161 375 929	0.259	133	106	41	10	8
4	10	161 375 930	0.400	166	130	47	12	8

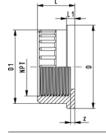


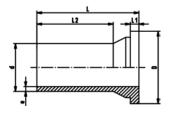
Valve end 375 PVC-U With threaded socket NPT

Model

- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U

NPT [inch]	PN	Code	kg	D [mm]	D1 [mm]	L [mm]	L1 [mm]	Z [mm]
3/8	10	161 375 437	0.012	35	26	18	5	5
1/2	10	161 375 438	0.012	35	30	24	5	6
3/4	10	161 375 439	0.017	43	36	21	5	5
1	10	161 375 440	0.028	51	44	24	6	5
1 1/4	10	161 375 441	0.040	60	53	27	6	6
1 1/2	10	161 375 442	0.064	72	64	27	7	6
2	10	161 375 443	0.101	89	77	31	7	5





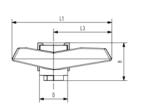
Valve end 375 PVC-U With butt fusion spigot long PE100 SDR11 metric

d [mm]	PN	Code	kg	D [mm]	e [mm]	L [mm]	L1 [mm]	L2 [mm]
20	16	161 375 932	0.020	36	3.5	67	6	45
25	16	161 375 933	0.025	44	3.5	74	6	50
32	16	161 375 934	0.040	52	3.5	97	7	72
40	16	161 375 935	0.060	61	4.0	86	7	63
50	16	161 375 936	0.090	73	5.0	97	8	72
63	16	161 375 937	0.100	90	6.2	96	9	75
75	16	161 375 938	0.110	116	7.0	119	10	88
90	16	161 375 939	0.120	134	9.0	112	12	82
110	16	161 375 940	0.150	168	10.0	131	15	96

Spare parts



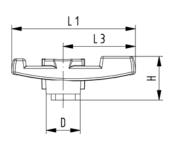
Handle to type 375 PVC-U Standard handle orange



d-d [mm]	DN-DN [mm]	Code	kg	L1 [mm]	L3 [mm]	H [mm]	D [mm]
2 16 - 20	10 - 15	161 491 950	0.011	67	40	27	19
🥟 - 25	- 20	161 491 951	0.016	77	45	28	22
🥟 - 32	- 25	161 491 952	0.025	87	51	32	25
- 40	- 32	161 491 953	0.040	102	59	36	28
- 50	- 40	161 491 954	0.060	119	70	40	32
🥟 - 63	- 50	161 491 955	0.100	146	84	45	37
🥟 - 75	- 65	161 491 956	0.150	179	103	52	41
🥟 - 90	- 80	161 491 957	0.210	209	120	57	44
🥟 - 110	- 100	161 491 958	0.280	250	141	61	48

Handle to type 375 PVC-U Standard handle orange

Available until end of 2009



d-d [mm]	DN-DN [mm]	Code	kg	L1 [mm]	L3 [mm]	H [mm]	D [mm]	
□ 16 - 20	10 - 15	161 490 900	0.011	67	40	27	19	
→ - 25	- 20	161 490 901	0.016	77	45	28	22	1
☐ - 32	- 25	161 490 902	0.025	87	51	32	25	
	- 32	161 490 903	0.040	102	59	36	28	1
→ - 50	- 40	161 490 904	0.060	119	70	40	32	1
🖙 <i>-</i> 63	- 50	161 490 905	0.100	146	84	45	37	1
△ - 75	- 65	161 490 906	0.150	179	103	52	41	1
📤 <i>-</i> 90	- 80	161 490 907	0.210	209	120	57	44	1
🖙 <i>-</i> 110	- 100	161 490 908	0.280	250	141	61	48	1



Seal set 375 PVC-U

Model:

Consisting of ball seals PTFE and o-rings

d [mm]	DN [mm]	EPDM Code	FPM Code	kg
16	10	161 375 402	161 375 417	0.002
20	15	161 375 403	161 375 418	0.002
25	20	161 375 404	161 375 419	0.002
32	25	161 375 405	161 375 420	0.003
40	32	161 375 406	161 375 421	0.005
50	40	161 375 407	161 375 422	0.012
63	50	161 375 408	161 375 423	0.016
63	65	161 375 409	161 375 424	0.018
90	80	161 375 410	161 375 425	0.024
110	100	161 375 411	161 375 426	0.039

General Condition of Supply of Georg Fischer Piping Systems Limited, Schaffhausen

- These General Conditions shall apply to all Products supplied by Georg Fischer to the Purchaser
- They shall also apply to all future business even when no express reference is made to them 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.
- 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.

TendersTenders shall only be binding if they contain a specifically stated period for acceptance.

- Georg Fischer's product range is subject to change.

 The confirmation of order shall govern the scope and execution of the contract.

- 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 ev are not warranted characteristics and are subject to change
- They are not wan interest and extensives and are subject to change.

 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.

Confidentiality, Protection of Personal Data

- 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.
- 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

- **Local Laws and Regulations, Export Controls**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.
 In case of re-exports, Purchaser shall be responsible for compliance with pertinent export control regulations.

- Unless agreed otherwise, the prices shall be deemed quoted net ex works (according to Incoterms of the ICC, latest version) including standard packing. All supplementary costs such as the cost of carriage, insurance, export-, transit- and importlicences etc. shall be borne by the Purchaser. The Purchaser shall also bear the costs of all taxes, fees, duties etc. connected with the contract.
- 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.

- The Purchaser shall make payment in the manner agreed by the parties without any deductions such as discounts, costs, taxes or dues
- 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 out-standing provided that the Products already delivered are not rendered unusable as a result.

Retention of Title

- 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.

 Should the Purchaser resell Products to which title is reserved, in the ordinary course of busi-
- 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.

 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.

- 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.
- Delivery is subject to the following conditions, i.e. the term of delivery shall be reasonably extended:
- 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.

 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 months, either party may cancel the
 - Georg Fischer shall not be liable for any damage or loss of any kind whatsoever resulting therefrom, 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. 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.
- 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 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 delaved delivery
- Part shipments shall be allowed and Georg Fischer shall be entitled to invoice for such partial
- 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.
- be entitled to dispose of the Products.

 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 liquidated damages in the amount of 10% of the contract price, Georg Fischers 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.

If the Products are provided with additional packing over and above the standard packing, such

Passing of Risk

- The risk in the Products shall pass to the Purchaser as soon as they have left Georg Fischer's works [EXWORKS, Incoterms ICC, latest version], even if delivery is made carriage-paid, under similar clauses or including installation or when carriage is organized and managed by Georg Eischer
- 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.

Carriage and Insurance

- Unless agreed otherwise, the Purchaser shall bear the cost of carriage
- 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 days after receipt of the Products.

Inspection, Notification of Defects and Damages

- 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.
- 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 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
- 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

- 15.1 At the written request of the Purchaser, Georg Fischer undertake to repair or replace at their discretion, as quickly as possible and free of charge all Products supplied which demonstrab suffer from faulty design, materials or workman-ship or from faulty operating or installation
- 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.

 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 cancel the contract or to demand a reduction in the contract price if also a second attempt to repair or replace the Products has failed.
- 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
- 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 as well as, in case of negligence, all other direct damages caused by the defective Product (damage to property and injury to or death of persons) up to CHF 1000 000 per
 - the statute of limitations for warranty or damage claims contrary to Section 15.6 will be 5 vears from the date of installation.

All cases of breach of contract and the relevant consequences as well as all rights and claims on the part of the customer, irrespective on what ground they are based, are exhaustively covered by these general conditions of supply. In particular, any claims not expressly mentioned for damages, reduction of price, termination of or withdrawal from 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 and other direct or indirect or consequential damage. This exclusion of liability, however, does not apply to unlawful intent or gross negligence on the part of Georg Fischer and in case of strict liability under applicable product liability stat-utes, but does apply to unlawful intent or gross negligence of persons employed or appointed by Georg Fischer to perform any of its obligations.

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.

Place of Performance and Jurisdiction

- Place of performance for the Products shall be the Georg Fischer works from which the Products are despatched.
- 18.2 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.

 18.3 The contract shall be governed by Swiss law without regard to conflict of law provisions that would require the application of another law.

GF Piping Systems → worldwide at home

Our sales companies and representatives ensure local customer support in over 100 countries.

www.piping.georgfischer.com



The technical data are not binding and not expressly warranted characteristics of the goods. They are subject to change. Our General Conditions of Sale apply.

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GFD0 8267/4b (6.09)

Made with MediaCockpit
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8201 Schaffhausen/Switzerland, 2007
Printed in Switzerland



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