



Flüssiggas-Anlagen

»Group 19«

Shut-Off Valves

Bypass Valves

Three-Way Valves

Quick-Acting Valves

Solenoid Valves

Ball Valves



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»19« **Shut-Off Valves - Bypass Valves**
Three-Way Valves - Quick-Acting Valves
Solenoid Valves - Ball Valves

Globe Valve PN 25, with NPT-thread and soft seal, with test report 2.2 to EN 10 204

Order No.	RegO	Fisher	DN	Length	Weight
19 001*	-	N301-04	1/2"	94	1,40
19 002*	A7505 AP	-	3/4"	94	1,10
19 003*	A7507 AP	-	1"	110	1,60
19 004*	A7509 BP	-	1 1/4"	125	3,10
19 005*	A7511 AP	-	1 1/2"	132	3,70
19 006*	A7513 AP	-	2"	150	7,70
19 007*	A7517 AP	-	3"	230	18,00



Angle Valve PN 25, with NPT-thread and soft seal, with test report 2.2 to EN 10 204

Order No.	RegO	Fisher	DN	Length	Weight
19 009*	-	N401-04	1/2"	45	1,25
19 010*	A7506 AP	-	3/4"	45	1,20
19 011*	A7508 AP	-	1"	51	1,20
19 012*	A7510 BP	-	1 1/4"	57	2,70
19 013*	A7512 AP	-	1 1/2"	62	3,60
19 014*	A7514 AP	-	2"	69	5,00
19 015*	A7518 AP	-	3"	102	15,00



Globe Valve PN 25, with NPT-thread and flange seal, with test report 2.2 to EN 10 204

Type: **A** = straight type
 Type: **B** = angle type

Order No.	RegO	DN	Length	Weight (kg)	Fig.
Type A					
19 017	7704 P	1/2"	95	1,0	1
19 018	7705 P	3/4"	95	1,0	1
Type B					
19 020	7704 LP	1/2"	43	0,9	2
19 021	7706 P	3/4"	43	0,9	2



Fig. 1



Fig. 2

Quick-Acting Valve with Lever PN 25, with NPT-thread, with test report 2.2 to EN 10 204

Order No.	RegO	DN	Length	Weight	Fig.
19 026	7901 T	1/4"	63	0,6	1
19 027	7554 SAV	1/2"	94	1,0	2
19 028	7554 SV	3/4"	94	1,0	2



Bild 1



Bild 2

Ball Valve with Spring Release PN 25, with NPT-thread and mechanical hand lever, with inspection certificate 3.1.B to EN 10 204

Order No.	Type	DN	Length	Weight
19 151	Argus	1/2"	90	2,0



Shut-Off Valve PN 20, with NPT-thread, with test report 2.2 to EN 10 204

Order No.	RegO	DN	Weight	Fig.
19 033	1224 WA	1/4"	0,1	1
19 034	2553	1/4"	0,7	2
19 035	2553 A	3/8"	0,7	2



Fig. 1



Fig. 2

Angle Valve PN 25, connection 3/4" NPT male, with test report 2.2 to EN 10 204

Order No.	RegO	FAS	Outlet	Material	Fig.	Weight
19 439	9101 C1 ¹⁾	-	POL	brass	like 1	0,4
19 440	7550 P ¹⁾	-	3/4" NPT	brass	like 1	0,6
19 441	-	484	3/4" NPT, with brass plug	brass	1	0,7
19 442*	A7550 P ¹⁾	-	3/4" NPT	steel	like 1	0,6
19 443	7550 PX ¹⁾	-	3/4" NPT, with excess flow valve	brass	2	0,6
19 444*	A7550 PX ¹⁾	-	3/4" NPT, with excess flow valve	steel	2	0,6
19 445	901 C5 ¹⁾	-	POL, with excess flow valve	brass	like 2	0,4
19 446	9101 DNP ¹⁾	-	POL, with vent valve and dip tube ²⁾ l = 300 mm	brass	-	0,5
19 447	-	483 ¹⁾	POL, with pressure gauge and vent valve ²⁾ l = 300 mm	brass	3	0,7



Fig. 1



Fig. 2

19 448 brass plug for angle valve 3/4" NPT

¹⁾ without plug / ²⁾ other dip tubes are available on request



Fig. 3

»19« **Shut-Off Valves - Bypass Valves**
Three-Way Valves - Quick-Acting Valves
Solenoid Valves - Ball Valves

Shut-Off Valve PN 40, in straight type, flanges to DIN 2635, overall length to DIN 3202, body of cast steel GS-C 25, seat ring, disc and stem of stainless steel with inspection certificate 3.1.B to EN 10 204

Type: **A** = gland seal of pure graphite, leakproof, class 1 to DIN 3230 part 3
 Type: **B** = bellows seal, maintenance free, leakproof, class 1 to DIN 3230 part 3

Order No. Type A	Order No. Type B	Size DN	Length L	Weight (kg)
19 041	19 101	15	130	4,8
19 042	19 102	20	150	5,4
19 043	19 103	25	160	7,1
19 044	19 104	32	180	8,0
19 045	19 105	40	200	11,5
19 046	19 106	50	230	13,5
19 047	19 107	65	290	23,5
19 048	19 108	80	310	28,0
19 049	19 109	100	350	39,5



Special executions on request:

- with trottle disc
- with tongue and groove to DIN 2512
- with male or female faces to DIN 2513
- with soft seal disc of PTFE

Shut-Off Valve PN 40, in angle form, flanges to DIN 2635, overall length to DIN 3202, body of cast steel GS-C 25, seat ring, disc and stem of stainless steel with inspection certificate 3.1.B to EN 10 204

Type: **A** = gland seal of pure graphite, leakproof, class 1 to DIN 3230 part 3
 Type: **B** = bellows seal, maintenance free, leakproof, class 1 to DIN 3230 part 3

Order No. Type A	Order No. Type B	Size DN	Length L	Weight (kg)
19 061	19 051	15	90	5,2
19 062	19 052	20	95	7,2
19 063	19 053	25	100	7,4
19 064	19 054	32	105	8,4
19 065	19 055	40	115	12,4
19 066	19 056	50	125	13,5
19 067	19 057	65	145	20,0
19 068	19 058	80	155	25,0
19 069	19 059	100	175	34,0



Special executions: see shut-off valves in straight type

Three-Way Valve PN 40, three-piece type, flanges to DIN 2635, overall length to DIN 3202, body of cast steel GS-C 25, seat ring, disc and stem of stainless steel with inspection certificate 3.1.B to EN 10 204

Type: **A** = gland seal of pure graphite, leakproof, class 1 to DIN 3230 part 3
 Type: **B** = bellows seal, maintenance free, leakproof, class 1 to DIN 3230 part 3

Order No. Type A	Order No. Type B	Size DN	Length L	Weight (kg)
19 071	19 081	25	160	11,0
19 072	19 082	32	180	14,0
19 073	19 083	40	200	19,0
19 074	19 084	50	230	22,0
19 075	19 085	65	290	32,0
19 076	19 086	80	310	46,0
19 077	19 087	100	350	64,0



Special executions on request:

- with tongue and groove to DIN 2512
- with male and female faces to DIN 2513
- with soft seal disc of PTFE

»19« **Shut-Off Valves - Bypass Valves**
Three-Way Valves - Quick-Acting Valves
Solenoid Valves - Ball Valves

Ball Valve PN 40, flanges to DIN 2635, "**Fire-Safe**" to BS 6755 Part 2 and antistatic protection, full bore, ball seals of PTFE, leakproof, class 1 to DIN 3230, with operating lever, with inspection certificate 3.1.B to EN 10 204

- Type: **A** = **Type ALFA**, body of steel ASTM A105 (C 21), ball and stem of stainless steel, stem seal PTFE/Viton
- Type: **B** = **Type FM2**, body of steel C 22.8, ball and stem of stainless steel, stem seal PTFE
- Type: **C** = **Type Bont**, body of steel ASTM A105 (C 21), **three-piece body**, ball and stem of stainless steel, stem seal PTFE/Viton
- Type: **D** = **Type ARGUS**, body of steel TSTE 355N, ball and stem of stainless steel, stem seal Viton

Connections: overall length to DIN 3202 F4/F5-short version, both sides with DIN-flanges

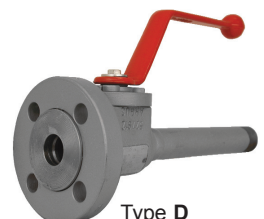
Order No. Type A	Order No. Type B	Order No. Type D	Size DN	Length (mm)	Weight Type A + B	Weight Type D
19 211	-	19 221	15	115	3,0	2,5
19 212	-	19 222	20	120	4,0	3,4
19 213	19 173	19 223	25	125	5,0	4,0
19 214	19 174	19 224	32	130	7,3	6,2
19 215	19 175	19 225	40	140	10,8	7,1
19 216	19 176	19 226	50	150	14,9	9,9
19 217	19 177	19 227	65	170	21,5	17,3
19 218	19 178	19 228	80	180	28,0	22,0
19 219	19 179	19 229	100	190	41,1	30,5
19 210	-	19 240	125	325	60,0	58,0
19 220	-	19 230	150	350	90,0	90,0



Type A

Connections: welded end on one side, DIN flange on other side¹⁾

Order No. Type C	Order No. Type D	Size DN	Length Type C	Weight Type C	Length Type D	Weight Type D
19 161	19 291	15	205	2,1	230	3,0
19 162	19 292	20	225	2,6	250	4,0
19 163	19 293	25	235	3,8	260	4,5
19 164	19 294	32	250	4,3	250	6,5
19 165	19 295	40	270	6,9	260	8,0
19 166	19 296	50	211	14,0	270	10,0
19 167	19 297	65	250	18,3	285	17,0
19 168	19 298	80	308	23,0	315	24,0
-	19 299	100	-	-	355	30,0
-	19 288	125	-	-	463	59,0
-	19 289	150	-	-	525	92,0



Type D

¹⁾ Pipe connection dimensions for welded ends are available on request.

Other sizes, connections, constructions, special materials and executions suitable for DME and other products are available on request.

Ball Valve PN 40, type Mecafrance, three-piece body of steel C 22.8, seals of PTFE, ball and stem of stainless steel, with operating lever, with inspection certificate 3.1.B to EN 10 204

- Type: **A** = full bore
- Type: **B** = reduced bore, **standard type**
- Type: **C** = seal kit



Order No. Welded End Type A	Order No. Pipe Thread Type B	Order No. NPT-thread Type B	Order No. NPT-thread Type B	Size DN	Weight (kg)	Order No. Type C	Full bore DN - size	Red. bore DN - size	Weight (kg)
19 121	19 231	19 241	19 251	15 - 1/2"	0,5	19 261	10 - 1/4"	15 - 1/2"	0,1
19 122	19 232	19 242	19 252	20 - 3/4"	0,8	19 262	15 - 1/2"	20 - 3/4"	0,1
19 123	19 233	19 243	19 253	25 - 1"	1,3	19 263	20 - 3/4"	25 - 1"	0,1
19 124	19 234	19 244	19 254	32 - 1 1/4"	1,8	19 264	25 - 1"	32 - 1 1/4"	0,1
19 125	19 235	19 245	19 255	40 - 1 1/2"	2,8	19 265	32 - 1 1/4"	40 - 1 1/2"	0,1
19 126	19 236	19 246	19 256	50 - 2"	3,8	19 266	40 - 1 1/2"	50 - 2"	0,1
19 127	19 237	-	-	65 - 2 1/2"	7,5	19 267	50 - 2"	65 - 2 1/2"	0,1
19 128	19 238	-	-	80 - 3"	12,0	19 268	65 - 2 1/2"	80 - 3"	0,1
19 129	19 239	-	-	100 - 4"	20,5	19 269	80 - 3"	100 - 4"	0,1

Special executions for road tankers, FIRE SAFE - execution and cryogenic applications to -20°C are available on request.

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Three-Way Valves - Quick-Acting Valves
Solenoid Valves - Ball Valves

Compact Ball Valve PN 40, "Fire-Safe" to BS 6755 Part 2, full bore, **type ALFA-10**, intermediate flange construction, one-piece body, seals of PTFE, leakproof, class 1 to DIN 3230, with operating lever, with inspection certificate 3.1.B to EN 10 204

Type: **A** = body of steel ASTM A105 (C 21)
 Type: **B** = body of stainless steel 1.4401 (up to DN 32), 1.4408 (and larger DN 40)

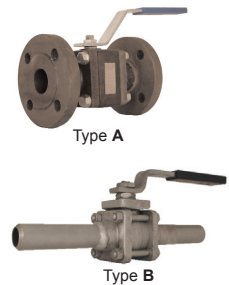
Order No. Type A	Order No. Type B	Size DN	Length (mm)	Weight Type A	Weight Type B
19 601	19 611	15	36	1,6	1,5
19 602	19 612	20	39	2,1	2,0
19 603	19 613	25	43	2,8	2,7
19 604	19 614	32	51	3,9	3,8
19 605	19 615	40	63	6,5	4,5
19 606	19 616	50	82	8,0	6,0
19 607	19 617	65	106	15,0	10,0
19 608	19 618	80	118	20,0	15,0
19 609	19 619	100	150	30,0	20,0



Ball Valve PN 40, "Fire-Safe" to BS 6755 part 2, full bore, **type Bont-3** to DN 40, **type Bont-1** from DN 50, with three-piece body of ASTM A105 (C 21), seals of PTFE, ball and stem of stainless steel, leakproof, class 1 to DIN 3230, with operating lever, with inspection certificate 3.1.B to EN 10 204

Type: **A** = flange connection, long version to DIN 3202 F1
 Type: **B** = welded end, long version for direct welding

Order No. Type A	Order No. Type B	Size DN	Length Type A	Weight Type A	Length Type B	Weight Type B
19 681	19 691	15	130	3,4	280	1,9
19 682	19 692	20	150	4,9	300	3,3
19 683	19 693	25	160	6,2	310	4,6
19 684	19 694	32	180	8,7	320	5,9
19 685	19 695	40	200	10,9	340	7,6
19 686	-	50	230	17,5	191	10,0
19 687	-	65	290	23,0	210	13,5
19 688	-	80	310	28,5	305	17,5
19 689 ¹⁾	-	100	350	24,5	305	16,0



¹⁾DN 100 reduced bore

Ball Valve PN 40, "Fire-Safe" to BS 6755 part 2, full bore, **type Bont-3** to DN 40, **type ALFA-24** from DN 50, with three-piece body of steel ASTM A105 (C 21), seals of PTFE, ball and stem of stainless steel, leakproof, class 1 to DIN 3230, with operating lever, with inspection certificate 3.1.B to EN 10 204

Order No. Welded End	Order No. Pipe Thread	Order No. NPT Thread	Size DN	Weight (kg)	Seal Kits: Order No.	for use with type	DN - size full bore	reduced bore
19 631	19 641	19 651	15 - 1/2"	1,3	19 660	Bont-2, Bont-3	10 - 1/4"	15 - 1/2"
19 632	19 642	19 652	20 - 3/4"	2,3	19 661	Bont-2, Bont-3	15 - 1/2"	20 - 3/4"
19 633	19 643	19 653	25 - 1"	3,2	19 662	Bont-2, Bont-3	20 - 3/4"	25 - 1"
19 634	19 644	19 654	32 - 1 1/4"	4,3	19 663	Bont-2, Bont-3	25 - 1"	32 - 1 1/4"
19 635	19 645	19 655	40 - 1 1/2"	5,8	19 664	Bont-2, Bont-3	32 - 1 1/4"	40 - 1 1/2"
19 636	19 646	19 656	50 - 2"	9,5	19 665	Bont-2, Bont-3	40 - 1 1/2"	50 - 2"
19 637	-	-	65 - 2 1/2"	13,0	19 666	ALFA-24	50 - 2"	-
19 638	-	-	80 - 3"	16,0	19 667	ALFA-24	65 - 2 1/2"	-
19 639	-	-	100 - 4"	25,0	19 668	ALFA-24	80 - 3"	-
					19 669	ALFA-24	100 - 4"	-

Ball Valve PN 40, standard type, with three-piece body of steel ASTM A105 (C 21), seals of PTFE, ball and stem of stainless steel, leakproof, class 1 to DIN 3230, with operating lever, with inspection certificate 3.1.B to EN 10 204

Type: **A** = full bore, **type Bont-2** up to DN 40, **type ALFA-24** from DN 50
 Type: **B** = reduced bore, **type Bont-2**

Order No. Type A	Order No. Type B	Order No. Type B	Order No. Type B	Size DN	Weight (kg)
19 921	19 831	19 841	19 851	15 - 1/2"	0,8
19 922	19 832	19 842	19 852	20 - 3/4"	1,0
19 923	19 833	19 843	19 853	25 - 1"	2,0
19 924	19 834	19 844	19 854	32 - 1 1/4"	3,0
19 925	19 835	19 845	19 855	40 - 1 1/2"	4,0
19 926	19 836	19 846	19 856	50 - 2"	5,0
19 927	-	-	-	65 - 2 1/2"	13,0
19 928	-	-	-	80 - 3"	16,0
19 929	-	-	-	100 - 4"	25,0



All ball valves can be fitted with a pneumatic actuator and limit switch on request.

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Three-Way Valves - Quick-Acting Valves
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Quick-Acting Ball Valve PN 40, with pneumatic actuator, "Fire Safe-version"

consisting of:

Ball Valve PN 40, "Fire-Safe" to BS 6755 part 2, flanges to DIN 2635, full bore, ball seals of PTFE, leakproof, class 1 to DIN 3230, anti-blow-out-version, with antistatic device, with inspection certificate 3.1.B to EN 10 204

Pneumatic Actuator maintenance free, compact design, rotation 90°, with automatic spring return in case of failure of pneumatic system (fail-safe-control system)

The pneumatic actuator is sized on the basis of a minimum pilot pressure of 5 bar with a max. product differential pressure of 25 bar. The max. pilot pressure is 8 bar.

Type: **A = Type ARGUS**, body of steel TSTE 355N, ball and stem of stainless steel, stem seal of Viton

Type: **B = Type ALFA**, body of steel ASTM A105 (C 21), ball and stem of stainless steel, stem seal of PTFE/Viton

Type: **C = Type Bont**, body of steel ASTM A105 (C 21), **three-piece body** ball and stem of stainless steel, stem seal of PTFE/Viton

DIN-flange connection on both sides, overall length to DIN 3202 F4/F5, short version

Order No.	Order No.	Size	Length	Weight	Weight
Type A	Type B	DN	(mm)	Type A	Type B
19 700	19 730	15	115	8,0	8,5
19 701	19 731	20	120	9,0	9,5
19 702	19 732	25	125	9,5	10,5
19 703	19 733	32	130	14,2	15,3
19 704	19 734	40	140	15,1	18,8
19 705	19 735	50	150	21,4	26,4
19 706	19 736	65	170	33,5	37,7
19 707	19 737	80	180	47,0	53,0
19 708	19 738	100	190	69,3	80,0
19 709	19 739	125	325	80,0	95,0
19 880	19 890	150	350	137,0	122,0

Welded end on one side, DIN-flange connection on the other side¹⁾

Order No.	Order No.	Size	Length	Weight	Length	Weight
Type A	Type C	DN	Type A	Type A	Type C	Type C
19 750	19 860	15	230	7,6	205	7,5
19 751	19 861	20	250	8,3	225	8,1
19 752	19 862	25	260	9,5	235	9,3
19 753	19 863	32	250	13,0	250	12,4
19 754	19 864	40	260	14,9	270	14,6
19 755	19 865	50	270	20,2	211	25,5
19 756	19 866	65	285	32,4	250	34,5
19 757	19 867	80	315	46,7	308	48,0
19 758	-	100	355	69,2	-	-
19 759	-	125	463	95,0	-	-

¹⁾ Pipe connection dimensions for welded end are available on request.

Other sizes, connection size, constructions, special materials and models for DME and other products are available on request.

Accessories

Order No.	Execution	Weight
19 710	Limit switch in housing, Ex-proof, for open/closed position indication	1,8
19 711	3/2-Way Solenoid Valve , Ex-proof, Namur interface, for compressed air, max. 10 bar, thread connection G 1/4", operating voltage 230 V , 50 Hz	1,5
19 712	3/2-Way Solenoid Valve , Ex-proof, Namur interface, for compressed air, max. 10 bar, thread connection G 1/4", operating voltage 24 V , DC	1,5

Manual operated ball valves with pneumatic actuator are available on request.



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Solenoid Valve PN 25, Ex-proof, indirectly actuated, normal closed, 230 V, 50 Hz, with female thread, operating pressure 0,5 - 25 bar, min. pressure difference 0,5 bar, body of brass, with test report 2.2 to EN 10 204

Order No.	Connection	Length	Weight
19 401	G 1/2"	67	0,8
19 402	G 3/4"	80	1,2
19 403	G 1"	95	1,6
19 404	G 1 1/4"	132	2,5
19 405	G 1 1/2"	132	3,5
19 406	G 2"	160	4,5
19 408	Special voltage 24 V - DC		



Solenoid Valve PN 25, Ex-proof, with automatic lifting, normal closed, 230 V, 50 Hz, with female thread, operating pressure 0 - 25 bar, body of brass, with test report 2.2 to EN 10 204

Order No.	Connection	Length	Weight
19 411	G 1/2"	67	1,8
19 412	G 3/4"	95	4,0
19 413	G 1"	95	3,8
19 414	G 1 1/4"	132	5,3
19 415	G 1 1/2"	132	5,5
19 416	G 2"	160	6,6
19 408	Special voltage 24 V - DC		



Solenoid valves with NPT-thread are available on request under FAS-No. 19 554 to 19 559.

Solenoid Valve PN 40, 2-way valve, Ex-proof, with automatic lifting, normal closed, leakproof, class 1 to DIN 3230, operating pressure 0 - 25 bar, flanges to DIN 2635

Type: **A** = body of cast steel, with test report 2.2 to EN 10 204

Type: **B** = body of stainless steel, free of copper and brass, with inspection certificate 3.1.B to EN 10 204

Type: **C** = body of cast steel, free of copper and brass, with inspection certificate 3.1.B to EN 10 204

Order No.		Order No.		Order No.		Size	Length	Fig.	Weight
Type A	24V-DC	Type B	24V-DC	Type C	24V-DC				
230V-AC	24V-DC	230V-AC	24V-DC	230V-AC	24V-DC	DN	(mm)		(kg)
19 419	19 369	19 429	19 379	-	-	15	130	1	5,5
19 420	19 370	19 430	19 380	-	-	20	150	1	5,8
19 421	19 371	19 431	19 381	-	-	25	160	1	6,5
19 422	19 372	19 432	19 382	-	-	32	180	1	11,0
19 423	19 373	19 433	19 383	-	-	40	200	1	12,0
19 424	19 374	19 434	19 384	-	-	50	230	1	14,0
19 425	19 375	-	-	19 435	19 385	65	290	2	36,5
19 426	19 376	-	-	19 436	19 386	80	310	2	46,5
19 427	19 377	-	-	19 437	19 387	100	350	2	70,0

Accessories

only available with delivery of new valves, retrofitting not possible

Order No.	Execution
19 388	Extra charge for 2 solenoid switches for contactless electronic indication of position ON/OFF for solenoid valves with flanges DN 15 - 50, Ex-proof to EEx d IIC T6
19 389	Extra charge for 2 solenoid switches for contactless electronic indication of position ON/OFF for solenoid valves with flanges DN 65 - 100, Ex-proof to EEx d IIC T6

Solenoid valves in special design, e. g. normal open, are available on request.

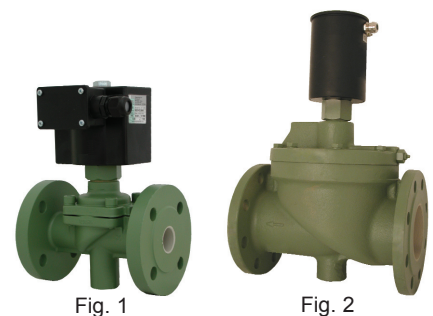


Fig. 1

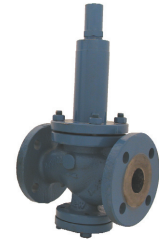
Fig. 2

»19« **Shut-Off Valves - Bypass Valves**
Three-Way Valves - Quick-Acting Valves
Solenoid Valves - Ball Valves

Bypass Valve PN 25, gastight, with spring loading, straight type, independent on back pressure, flanges to DIN 2635, body of cast steel, internal parts of stainless steel, with inspection certificate 3.1.B to EN 10 204

Type: **A = with bellow**
 Type: **B = with O-Ring seal**

Order No. Type A	Order No. Type B	Size DN	Length (mm)	Height (mm)	Weight (kg)	Setting ranges for different spring sizes in bar
19 882	19 302	20	150	275	8,5	1,6 - 2,5
19 883	19 303	25	160	275	10,0	2,5 - 4,0
19 884	19 304	32	180	275	12,0	4,0 - 6,3
19 885	19 305	40	200	275	14,0	6,3 - 10,0
19 886	19 306	50	230	360	25,0	10,0 - 16,0*
19 887	19 307	65	290	360	33,0	16,0 - 25,0
19 888	19 308	80	310	495	50,0	
19 334	Conversion to other spring setting ranges see table.					



Type: **C = with bellow and with separate hand wheel for hand setting and possibility for connection of bellow leakage control**

Order No. Type C	Size DN	Length (mm)	Height (mm)	Weight (kg)	Setting ranges for different spring sizes in bar
19 311	20	150	400	10,0	1,0 - 2,5
19 312	25	160	400	10,6	2,5 - 6,0
19 313	32	180	400	12,7	6,0 - 10,0
19 314	40	200	515	20,1	10,0 - 16,0*
19 315	50	230	575	24,0	16,0 - 22,0
19 316	65	290	585	28,4	
19 317	80	310	700	41,0	
19 334	Conversion to other spring setting ranges see table.				

Please indicate the required setting range when placing your order.

Bypass Valve PN 25, gastight, with spring loading, dependent on back pressure, with NPT-female thread, body of ASTM A536, with test report 2.2 to EN 10 204

Angular Type

Order No.	Type	Connection	Setting Range bar	Capacity max. l/min	Weight (kg)	Fig.	Einstellbereiche für Überströmventile Typ BV unter Verwendung verschiedener Federn in bar
19 321	BV 3/4	3/4"	4,5 - 7,0	190	2,2	1	1,4 - 3,5
19 322	BV 1	1"	4,5 - 7,0	190	2,3	1	2,5 - 5,5
19 323	BV 1 1/4	1 1/4"	4,5 - 8,6	380	3,5	1	4,5 - 8,6
19 324	BV 1 1/4	1 1/4"	7,0 - 10,5	380	3,5	1	7,0 - 10,5
19 325	BV 1 1/2	1 1/2"	4,5 - 8,6	380	3,3	1	
19 326	BV 1 1/2	1 1/2"	7,0 - 10,5	380	3,3	1	
19 327	BV 2	2"	4,5 - 8,6	600	7,6	1	
19 334	Conversion to other spring setting ranges see table.						



Fig. 1



Fig. 2

Straight Type

Order No.	Type	Connection	Setting Range bar	Capacity max. l/min	Weight (kg)	Fig.
19 328	N110-06-2	3/4"	5,0 - 10,5	80	1,6	2
19 329	N110-08-2	1"	5,0 - 10,5	160	1,5	2
19 335	Conversion to spring setting range from 1,8 to 5,1 bar					

Bypass Valve PN 25, gastight, angular type, with spring loading and automatic vapour elimination system, dependent on back pressure, with NPT-female thread, body of steel St 52-3, with inspection certificate 3.1.B to EN 10 204

When the pump is not in operation, vapour is eliminated via the return line and transferred to the vapour phase in the tank.

Order No.	Type	Connection	Setting Range bar	Capacity l/min	Weight (kg)
19 541	UV 20	3/4"	1,7 - 4,1	170	3,4
19 542	UV 20	3/4"	3,5 - 10,5	250	3,4
19 543	UV 20	3/4"	5,0 - 18,0	310	3,4
19 544	UV 25	1"	1,7 - 4,1	170	3,4
19 545	UV 25	1"	3,5 - 10,5	250	3,4
19 546	UV 25	1"	5,0 - 18,0	310	3,4
19 581	UV 32	1 1/4"	1,7 - 4,1	250	6,0
19 582	UV 32	1 1/4"	3,5 - 10,5	400	6,0
19 583	UV 32	1 1/4"	5,0 - 18,0	500	6,0
19 584	UV 40	1 1/2"	1,7 - 4,1	250	6,5
19 585	UV 40	1 1/2"	3,5 - 10,5	400	6,5
19 586	UV 40	1 1/2"	5,0 - 18,0	500	6,5

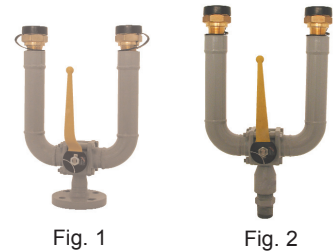


»19« **Shut-Off Valves - Bypass Valves**
Three-Way Valves - Quick-Acting Valves
Solenoid Valves - Ball Valves

Relief Valve Manifold for Three-Way Ball Valve PN 40, ball valve of forged steel C 22.8, ball of stainless steel with L-type bore, angle of rotation 90°, seals of PTFE, with flange connection to DIN 2635 or NPT-thread, with test report 2.2 to EN 10 204 for pressure and function test and with inspection certificate 3.1.B to EN 10 204 for material

- Type: **A** = **Standard execution**, with 2 type approved internal **relief valves of brass** 1" NPT, setting pressure 15,6 bar, completely welded, assembled, primed and painted
- Type: **B** = with 2 type approved internal **relief valves of stainless steel** 1" NPT, setting pressure 15,6 bar, completely welded, assembled, primed and painted
- Type: **C** = **without relief valve**, completely welded, assembled, primed and painted

Order No.	Order No.	Order No.	Size	Dimensions ¹⁾		Weight ¹⁾	Fig. ¹⁾
Type A	Type B	Type C	Connection	A	B	(kg)	
19 481	19 501	19 506	DN 25	200	375	6,5	1
19 482	19 502	19 507	DN 32	200	385	7,1	1
19 483	19 503	19 508	1" NPT male	200	425	5,7	2
19 484	19 504	19 509	1 1/4" NPT male	200	425	5,8	2
19 485	19 505	19 510	DN 50	200	390	8,0	1
19 537	19 538	19 539	DN 40	200	390	7,5	1
19 480	TÜV-pressure test (third party inspection)						



Other setting pressures are available on request. ¹⁾only for types **A** and **B**
 Flange manifold with tongue and groove, respectively male or female faces are available on request.

Three-Way Ball Valve PN 40, of forged steel C 22.8, balls of stainless steel with L-type bore, seals of PTFE, middle flange connection to DIN 2635, lateral connections with welded ends, with inspection certificate 3.1.B to EN 10 204

Middle connection horizontal
 Angle of rotation 90°

Order No.	Size	Weight
	DN	(kg)
19 281	50	7,0



Middle connection vertical
 Angle of rotation 180°

Order No.	Size	Weight
	DN	(kg)
19 282	50	7,0



Further sizes, other executions or special materials (e. g. stainless steel) are available on request.

Three-Way-Ball-Valve PN 40, of steel ASTM A105, compact design with flange connection to DIN 3337, ball with L-type bore, angle of rotation 90°, with operating lever, with inspection certificate 3.1.B to EN 10 204

Order No.	Size	Dimensions		Weight
		A	B	
19 111	25	115	41	7,5
19 112	32	140	52	13,0
19 113	40	150	56	15,0
19 114	50	165	62	19,0
19 115	65	185	70	28,0
19 116	80	216	87	52,0
19 117	100	230	96	66,0



These 3-Way ball valves can be fitted with a pneumatic actuator, without spring loading, with a ⁵/₂-way solenoid valve for compressed air (230 V-AC or 24 V-DC), and with limit switch for position control on request.

Liquid Withdrawal Valve PN 25, with excess flow valve, with test report 2.2 to EN 10 204

Order No.	RegO	Inlet	Outlet	Filling Connection	Weight
19 341 ¹⁾	A8017 DP	1 1/4" NPT male	1" NPT female	-	1,8
19 342 ²⁾	A8017 DH	1 1/4" NPT male	1" NPT female	-	1,8
19 343	A8018 DP	1 1/4" NPT male	1" NPT female	1 3/4" ACME male	1,9
19 344	A8016 DP	1 1/4" NPT male	-	1 3/4" ACME male	1,4

¹⁾ Standard model

²⁾ with built-in back pressure check valve

Type
 Order No. 19 344



Type
 Order No. 19 343



»19« **Shut-Off Valves - Bypass Valves
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Multivalve PN 25, compact unit for storage tanks, body of brass, with test report 2.2 to EN 10 204

Order No.	RegO	Connection	Weight
19 561	8475 RV	2 1/2" NPT-female	5,7

Components:

1. Filler valve 1 3/4" ACME
2. Vapour equalizing valve 1 1/4" ACME
3. Vapour withdrawal valve, POL-female
4. Vent valve with tube¹⁾
5. Connection for pressure gauge
6. Flange connection for liquid level gauge
7. Pressure relief valve (customer specification)
8. Connection for dip tube and 3/4" NPT female thread for additional pipe



Order No.	RegO	Connection	Weight
19 562	8593 AR16.0	1 1/2" NPT-male	1,8

Components:

1. Filler valve 1 3/4" ACME
2. Vapour equalizing valve 1 1/4" ACME
3. Vapour withdrawal valve, POL-female
4. Vent valve with tube¹⁾
5. Connection for pressure gauge
6. Connection for dip tube and 3/4" NPT female thread for additional pipe



¹⁾When placing your order, please specify the length of the vent valve. **Further multivalves are available on request.**

Duoport Pressure Relief Valve Manifold PN 25, with connection 2" NPT-male, body of ductile iron ASTM A395 or equivalent, for 2 external relief valves 1 1/4" NPT-male, type RegO 3135 of brass, without plastic cap, with test report 2.2 to EN 10 204

Order No.	RegO	Connection Tank	Relief Valve (quantity)	Set Pressure (bar)	Weight (kg)
19 571	A8540	2" NPT male	no	-	4,5
19 572	8542G	2" NPT male	2	2 - 27	6,8
19 573	TÜV - pressure test (third party inspection)				
19 574	TÜV - pressure setting certificate for RegO relief valves (per relief valve)				



Order No. 19 571

Duoport Pressure Relief Valve Manifold PN 25, with 3" ANSI/ASA-flanges 300 lbs, body of ductile iron ASTM A395 or equivalent, for 2 external relief valves 2 1/2" NPT-male, type RegO A3149 of steel, with plastic cap, with test report 2.2 to EN 10 204,

Order No.	RegO	Connection Tank	Relief Valve (quantity)	Set Pressure (bar)	Weight (kg)
19 569	8530	3" ANSI/ASA	no	-	30,0
19 570	A8532	3" ANSI/ASA	2	2 - 21	40,0
19 573	TÜV - pressure test (third party inspection)				
19 574	TÜV - pressure setting certificate for RegO relief valves (per relief valve)				



Order No. 19 570

Multiport Pressure Relief Valve Manifold PN 25, with ANSI/ASA-flanges, body of ductile iron ASTM A395 or equivalent, for external relief valves 2 1/2" NPT-male type RegO A3149 of steel, with plastic cap, with test report 2.2 to EN 10 204

Type: **A** = tank connection 3" ANSI/ASA-flange 300 lbs

Type: **B** = tank connection 4" ANSI/ASA-flange 300 lbs

Order No.	RegO	Relief Valve (quantity)	Set Pressure (bar)	Weight (kg)
Type A				
19 511	A8563	no	-	32,0
19 512	A8563	3	17,2	53,0
19 513	A8564	4	17,2	60,0
19 514	A8563	3	2 - 21	53,0
19 515	A8564	4	2 - 21	60,0
Type B				
19 516	A8573	no	-	38,0
19 517	A8573	3	17,2	59,0
19 518	A8574	4	17,2	66,0
19 519	A8573	3	2 - 21	59,0
19 520	A8574	4	2 - 21	66,0

19 529 **TÜV-pressure test (third party inspection)**

19 530 **Pressure setting certificate for RegO relief valves (per relief valve)**



Order No. 19 520