RÖTELMANN

Shut-off and control technology

A line of **ball valves and ideas**

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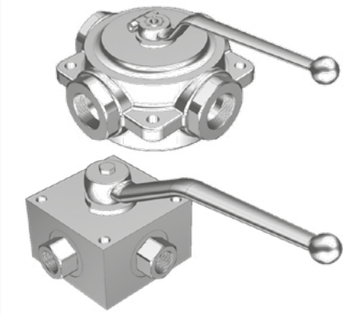
Multi-way ball valves 78

Multi-way ball valves

Product overview

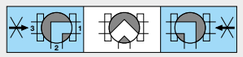
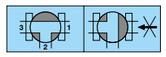
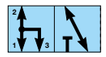
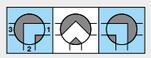
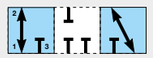
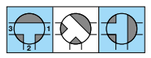
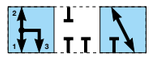
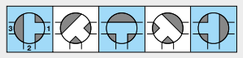
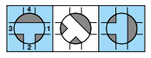
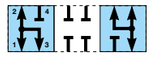
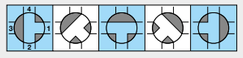
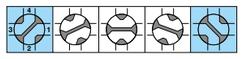
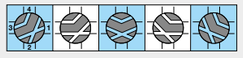
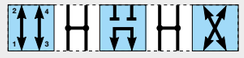
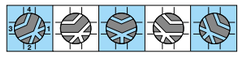
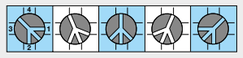
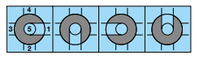
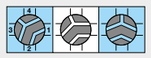
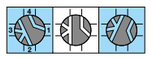
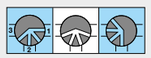
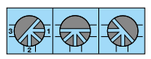
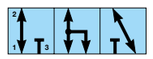
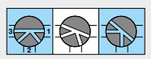
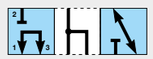
with floating ball	with trunnion ball
	

Multi-way ball valves

Standard- and special porting patterns

Porting position

Cross-over position

Ref-No.	Ball valve style	Cycling	Porting symbols		Descriptions
01	**3-way compact ball valve** with L-bore	90°			Floating ball, all ports connected in the cross-over position, pressure should not be applied from the closed port
03	**3-way compact ball valve** with T-bore	90°			Floating ball, all ports connected in the cross-over position, pressure should not be applied from the closed port
08	**3-way ball valve** with L-bore	90°			Trunnion ball, all ports closed in the cross-over position, full bore
09	**3-way ball valve** with T-bore	90°			Trunnion ball, all ports closed in the cross-over position, full bore
10	**3-way ball valve** with T-bore	2 x 90°			Trunnion ball, all ports closed in the cross-over position, full bore, detent at center position is recommended
11	**4-way ball valve** with T-bore	90°			Trunnion ball, all ports closed in the cross-over position, full bore
12	**4-way ball valve** with T-bore	2 x 90°			Trunnion ball, all ports closed in the cross-over position, full-bore, detent at center position is recommended
13	**4-way ball valve** with double L-bore	90°			Trunnion ball, temporary connection of all ports in the cross-over position but with full shut-off at center point, reduced bore
14	**4-way ball valve** with double L-bore and additional bore	2 x 45°			Trunnion ball, all ports connected in the cross-over position with center shut-off position, reduced bore, detent for center position is recommended
15	**4-way ball valve** with double L-bore and additional bore	2 x 45°			Trunnion ball, all ports connected in the cross-over position, reduced bore, detent for center position is recommended
16	**4-way ball valve** with Y-bore	2 x 45°			Trunnion ball, all ports connected in the cross-over position, reduced bore, detent for center position is recommended
17	**5-way ball valve** with double L-bore perpendicular	3 x 90°			Trunnion ball, all ports closed, full-bore passage, detents for switching positions are recommended
18	**4-way ball valve** with T- and L-bore	45°			Trunnion ball, all ports connected in the cross-over position, reduced bore
19	**4-way ball valve** with double L-bore and additional bore	45°			Trunnion ball, all ports connected in the cross-over position, reduced bore
20	**3-way ball valve** with L-bore and additional bore	90°			Trunnion ball, all ports connected in the cross-over position, full bore
21	**3-way ball valve** with T-bore and additional bore	2 x 45°			Trunnion ball, all ports connected in the cross-over position, reduced bore
22	**3-way ball valve** with L-bore and additional bore	45°			Trunnion ball, all ports connected in the cross-over position, reduced bore

Other special porting patterns on request

Multi-way ball valves

Special porting patterns · examples for combinations

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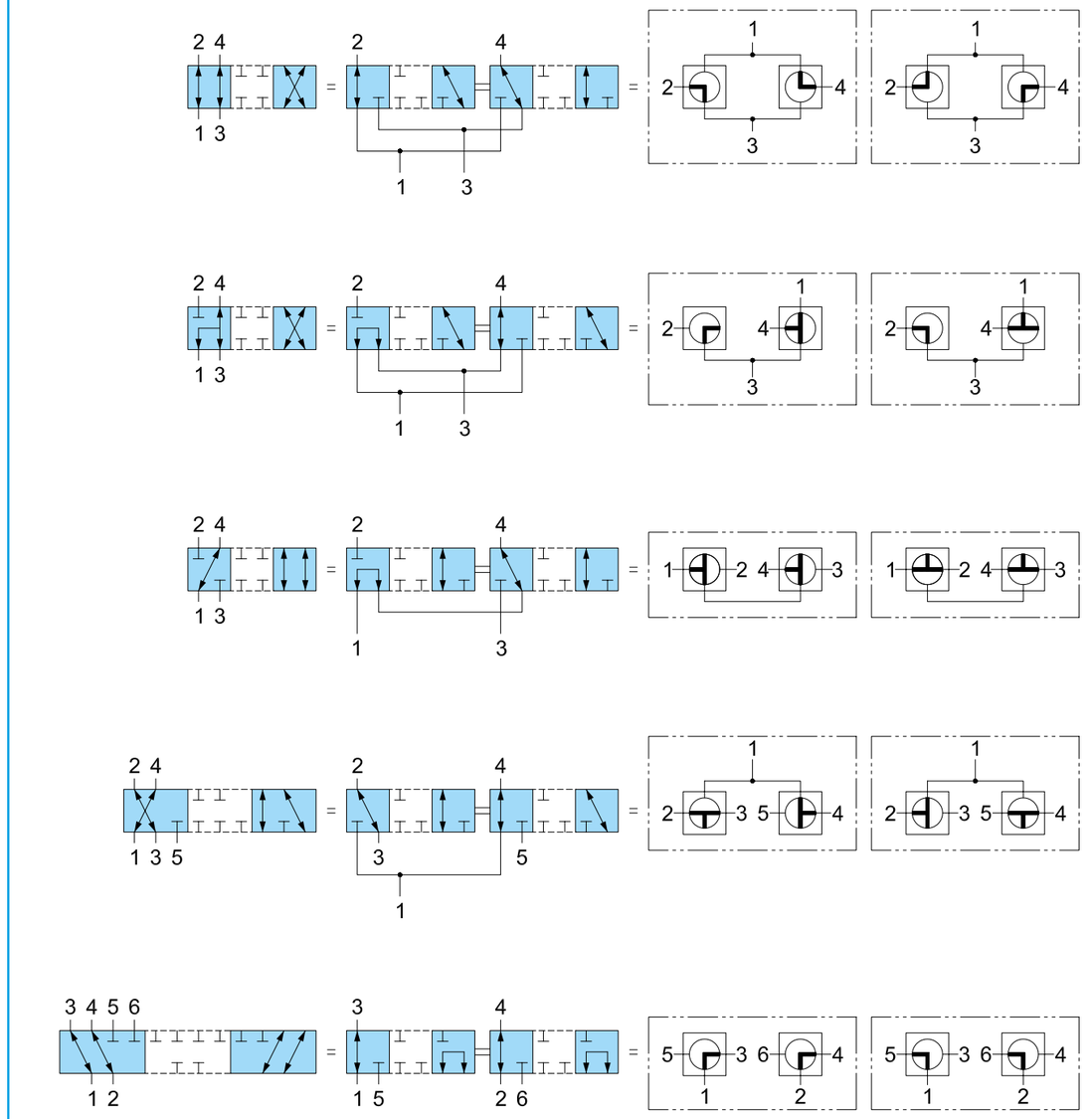
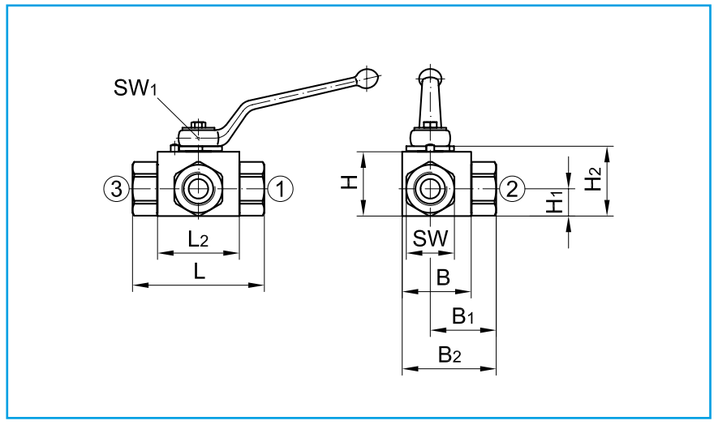
By combining simple patterns more complex functions can be achieved.



Multi-way ball valves with floating ball

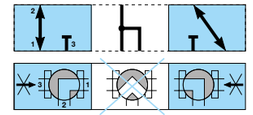
3-way · steel · threaded connector · DN 4 - DN 40/25



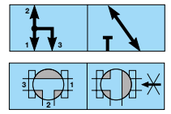
Handle included in delivery. For handle refer to "Attachments, accessories"
Application of pressure only as indicated in chapter "Technical information"
Please check pressure rating of the pipe fittings!
Actuators and custom orders on request
All dimensions subject to change without notice
Also available with most other connections

All ball valves available with mounting plate
Dimensions in mm | Weight in kg | Pressure in bar

L-bore



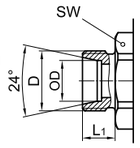
T-bore



Bore:	L	L	T	T
Cycling:	90°	90°	90°	90°
Body:	steel, black oxide	steel, zinc nickel plated	steel, black oxide	steel, zinc nickel plated
Ball:	steel, hard chrome plated	steel, hard chrome plated	steel, hard chrome plated	steel, hard chrome plated
Stem:	steel, zinc nickel plated	steel, zinc nickel plated	steel, zinc nickel plated	steel, zinc nickel plated
Ball seals:	POM	POM	POM	POM
Stem seals:	NBR	NBR	NBR	NBR

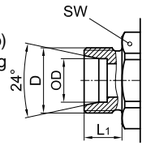
Connection

For cut (clamp) ring tube fitting DIN 2353 light series ISO 8434-1



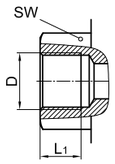
DN	Thread D	OD	L	L1	L2	B	B1	B2	H	H1	H2	SW	SW1	Handle code	Weight	DN	PN	Article no.	PN	Article no.	PN	Article no.	PN	Article no.
4	M 12 x 1.5	6	67	10	36	30	33.5	45.5	30	15.0	32.5	19	7	12	0.3	4	500	200151	500	700530	500	200191	500	700699
6	M 14 x 1.5	8	67	10	36	30	33.5	45.5	30	15.0	32.5	19	7	12	0.3	6	500	200152	500	700531	500	200192	500	700700
8	M 16 x 1.5	10	75	11	45	40	37.5	55.0	35	14.5	38.5	24	8	13	0.6	8	500	200153	500	700532	500	200193	500	700701
10	M 18 x 1.5	12	75	11	45	40	37.5	55.0	35	14.5	38.5	24	8	13	0.6	10	500	200154	500	700533	500	200194	500	700702
12	M 22 x 1.5	15	83	12	51	45	41.5	61.0	45	22.0	48.5	30	10	14	0.9	12	500	200155	500	700534	500	200195	500	700703
16	M 26 x 1.5	18	82	12	50	50	41.0	66.0	50	25.0	53.5	36	10	14	1.1	16	420	200156	420	700535	420	200196	420	700704
20	M 30 x 2	22	99	14	60	55	51.0	74.5	60	29.0	64.0	41	14	15	1.6	20	420	200157	420	700536	420	200197	420	700705
25	M 36 x 2	28	108	14	70	65	54.0	84.0	65	31.0	69.0	50	14	15	2.3	25	420	200158	420	700537	420	200198	420	700706
32/25	M 45 x 2	35	116	16	70	65	58.0	88.0	65	31.0	69.0	50	14	15	2.5	32/25	420	200159	420	700538	420	200199	420	700707
40/25	M 52 x 2	42	121	16	70	65	60.5	90.5	65	31.0	69.0	55	14	15	2.6	40/25	420	200160	420	700539	420	200200	420	700708

For cut (clamp) ring tube fitting DIN 2353 heavy series ISO 8434-1



DN	Thread D	OD	L	L1	L2	B	B1	B2	H	H1	H2	SW	SW1	Handle code	Weight	DN	PN	Article no.	PN	Article no.	PN	Article no.	PN	Article no.
4	M 16 x 1.5	8	73	12	36	30	36.5	48.5	30	15.0	32.5	19	7	12	0.4	4	500	200161	500	700540	500	200201	500	700710
6	M 18 x 1.5	10	73	12	36	30	36.5	48.5	30	15.0	32.5	19	7	12	0.4	6	500	200162	500	700541	500	200202	500	700711
8	M 20 x 1.5	12	77	12	46	40	38.5	56.0	35	14.5	38.5	24	8	13	0.6	8	500	200163	500	700542	500	200203	500	700712
10	M 22 x 1.5	14	81	14	45	40	40.5	58.0	35	14.5	38.5	24	8	13	0.6	10	500	200164	500	700543	500	200204	500	700713
12	M 24 x 1.5	16	87	14	51	45	43.5	63.0	45	22.0	48.5	30	10	14	0.9	12	500	200165	500	700544	500	200205	500	700714
16	M 30 x 2	20	90	16	50	50	45.0	70.0	50	25.0	53.5	36	10	14	1.1	16	420	200166	420	700545	420	200206	420	700715
20	M 36 x 2	25	107	18	60	55	55.0	78.5	60	29.0	64.0	41	14	15	1.7	20	420	200167	420	700546	420	200207	420	700716
25	M 42 x 2	30	120	20	70	65	60.0	90.0	65	31.0	69.0	50	14	15	2.4	25	420	200168	420	700547	420	200208	420	700717
32/25	M 52 x 2	38	134	22	70	65	67.0	97.0	65	31.0	69.0	55	14	15	3.0	32/25	420	200169	420	700548	420	200209	420	700718

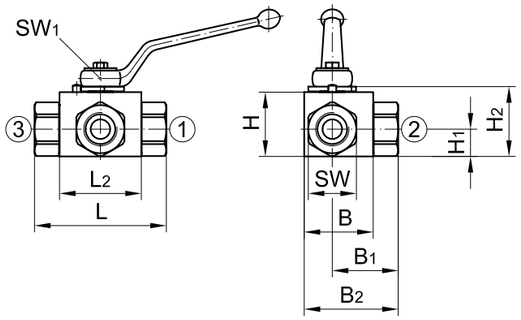
BSP-female thread DIN EN ISO 228-1



DN	Thread D	OD	L	L1	L2	B	B1	B2	H	H1	H2	SW	SW1	Handle code	Weight	DN	PN	Article no.	PN	Article no.	PN	Article no.	PN	Article no.
4	G 1/8	-	71	12	36	30	34.5	46.5	30	15.0	32.5	19	7	12	0.4	4	500	200171	500	700292	500	200211	500	700316
6	G 1/4	-	71	12	36	30	34.5	46.5	30	15.0	32.5	19	7	12	0.4	6	500	200172	500	700293	500	200212	500	700317
10	G 3/8	-	73	14	45	40	36.5	54.0	35	14.5	38.5	24	8	13	0.6	10	500	200173	500	700294	500	200213	500	700318
12	G 1/2	-	82	15	51	45	41.0	60.5	45	22.0	48.5	30	10	14	0.9	12	500	200174	500	700295	500	200214	500	700319
16	G 5/8	-	88	18	50	50	44.0	69.0	50	25.0	53.5	36	10	14	1.2	16	420	200175	420	700296	420	200215	420	700320
20	G 3/4	-	93	18	60	55	48.0	71.5	60	29.0	64.0	41	14	15	1.7	20	420	200176	420	700297	420	200216	420	700321
25	G 1	-	115	18	70	65	57.5	87.5	65	31.0	69.0	50	14	15	2.7	25	420	200177	420	700298	420	200217	420	700322
32/25	G 1¼	-	134	20	70	65	67.0	97.0	65	31.0	69.0	50	14	15	2.7	32/25	420	200178	420	700299	420	200218	420	700323
40/25	G 1½	-	139	22	70	65	69.5	99.5	65	31.0	69.0	55	14	15	2.9	40/25	420	200179	420	700300	420	200219	420	700324

Multi-way ball valves with floating ball

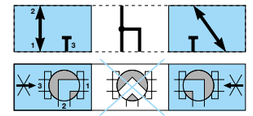
3-way · steel · threaded connector · DN 4 - DN 40/25



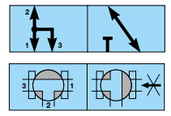
Handle included in delivery. For handle refer to "Attachments, accessories"
Application of pressure only as indicated in chapter "Technical information"
Please check pressure rating of the pipe fittings!
Actuators and custom orders on request
All dimensions subject to change without notice
Also available with most other connections

All ball valves available with mounting plate
Dimensions in mm | Weight in kg | Pressure in bar

L-bore



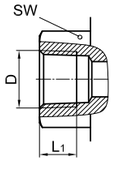
T-bore



Bore:	L	L	T	T
Cycling:	90°	90°	90°	90°
Body:	steel, black oxide	steel, zinc nickel plated	steel, black oxide	steel. zinc nickel plated
Ball:	steel, hard chrome plated	steel, hard chrome plated	steel, hard chrome plated	steel. hard chrome plated
Stem:	steel, zinc nickel plated	steel, zinc nickel plated	steel, zinc nickel plated	steel. zinc nickel plated
Ball seals:	POM	POM	POM	POM
Stem seals:	NBR	NBR	NBR	NBR

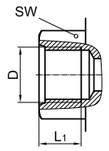
Connection

NPT-female thread
ANSI/ASME
B1.20.1-1983



DN	Thread D	L	L1	L2	B	B1	B2	H	H1	H2	SW	SW1	Handle code	Weight	DN	PN	Article no.	PN	Article no.	PN	Article no.	PN	Article no.
4	1/8 - 27 NPT	69	6.9	36	30	34.5	46.5	30	15.0	32.5	19	7	12	0.4	4	500	200181	500	700301	500	200221	500	700325
6	1/4 - 18 NPT	69	10.0	36	30	34.5	46.5	30	15.0	32.5	19	7	12	0.4	6	500	200182	500	700302	500	200222	500	700326
10	3/8 - 18 NPT	73	10.3	45	40	36.5	54.0	35	14.5	38.5	24	8	13	0.6	10	500	200183	500	700303	500	200223	500	700327
12	1/2 - 14 NPT	82	13.6	51	45	41.0	60.5	45	22.0	48.5	30	10	14	0.9	12	500	200184	500	700304	500	200224	500	700328
20	3/4 - 14 NPT	93	14.1	60	55	48.0	71.5	60	29.0	64.0	41	14	15	1.8	20	420	200185	420	700305	420	200225	420	700329
25	1 - 11½ NPT	115	16.8	70	65	57.5	87.5	65	31.0	69.0	50	14	15	2.7	25	420	200186	420	700306	420	200226	420	700330
32/25	1¼ - 11½ NPT	131	17.3	70	65	67.0	95.5	65	31.0	69.0	50	14	15	2.8	32/25	420	200187	420	700307	420	200227	420	700331
40/25	1½ - 11½ NPT	143	17.3	70	65	69.5	101.5	65	31.0	69.0	55	14	15	2.9	40/25	420	200188	420	700308	420	200228	420	700332

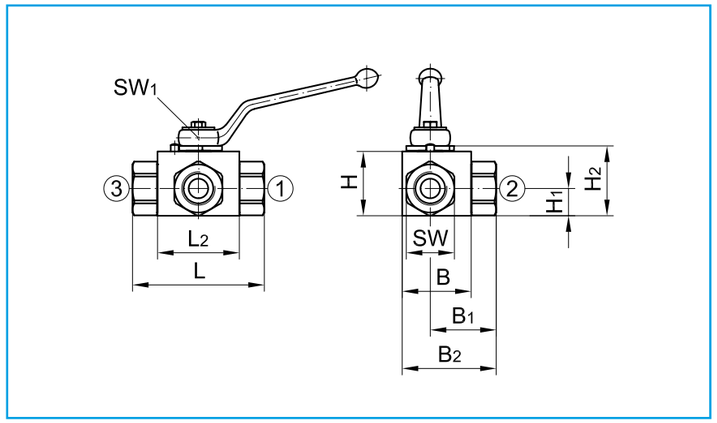
Female thread
ISO 11926-1



6	7/16 - 20 UNF - 2B	69	11.7	36	30	34.5	46.5	30	15.0	32.5	19	7	12	0.4	6	500	-	500	700309	500	-	500	700333
10	9/16 - 18 UNF - 2B	73	12.7	45	40	36.5	54.0	35	14.5	38.5	24	8	13	0.6	10	500	-	500	700310	500	-	500	700334
12	3/4 - 16 UNF - 2B	82	14.5	51	45	41.0	60.5	45	22.0	48.5	30	10	14	1.0	12	500	-	500	700311	500	-	500	700335
20	1 1/16 - 12 UN - 2B	93	19.2	60	55	48.0	71.5	60	29	64.0	41	14	15	1.8	20	420	-	420	700312	420	-	420	700336
25	1 5/16 - 12 UN - 2B	115	19.2	70	65	57.5	87.5	65	31.0	69.0	50	14	15	2.7	25	420	-	420	700313	420	-	420	700337
32/25	1 5/8 - 12 UN - 2B	131	19.2	70	65	65.5	95.5	65	31	69.0	55	14	15	3.1	32/25	420	-	420	700314	420	-	420	700338
40/25	1 7/8 - 12 UN - 2B	135	19.2	70	65	67.0	97.0	65	31.0	69.0	65	14	15	2.9	40/25	420	-	420	700315	420	-	420	700339

Multi-way ball valves with floating ball

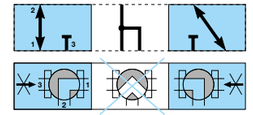
3-way · steel · threaded connector · DN 32 - DN 50



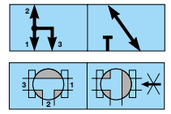
Handle included in delivery. For handle refer to "Attachments, accessories"
Application of pressure only as indicated in chapter "Technical information"
Please check pressure rating of the pipe fittings!
Actuators and custom orders on request
All dimensions subject to change without notice
Also available with most other connections

All ball valves available with mounting plate
Dimensions in mm | Weight in kg | Pressure in bar

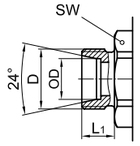
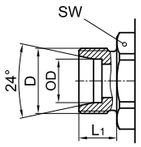
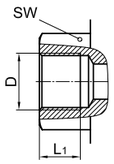
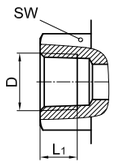
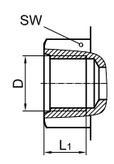
L-bore



T-bore

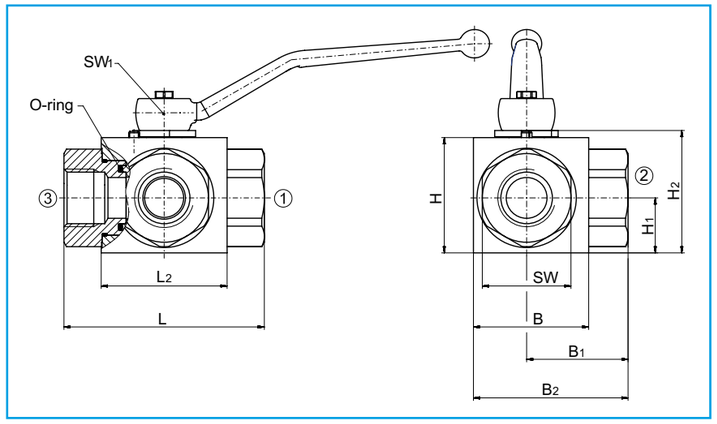


Bore:	L	T
Cycling:	90°	90°
Body:	steel, zinc nickel plated	steel, zinc nickel plated
Ball:	steel, hard chrome plated	steel, hard chrome plated
Stem:	steel, zinc nickel plated	steel, zinc nickel plated
Ball seals:	POM	POM
Stem seals:	NBR	NBR

Connection		DN	Thread D	OD	L	L1	L2	B	B1	B2	H	H1	H2	SW	SW1	Handle code	Weight	DN	PN	Article no.	PN	Article no.
For cut (clamp) ring tube fitting DIN 2353 light series ISO 8434-1		32	M 45 x 2	35	125	16.0	74	80	70.5	105.5	80	36.6	84	60	17	21	3.1	32	420	700720	420	700723
		40	M 52 x 2	42	131	16.0	90	100	83.0	125.0	90	42.6	94	75	17	21	5.2	40	420	700721	420	700724
For cut (clamp) ring tube fitting DIN 2353 heavy series ISO 8434-1		32	M 52 x 2	38	137	22.0	74	80	76.5	111.5	80	36.6	84	60	17	21	3.3	32	420	700722	420	700725
BSP-female thread DIN EN ISO 228-1		32	G 1¼	-	103	24.0	74	80	59.5	94.5	80	36.6	84	60	17	21	3.8	32	420	700412	420	700726
		40	G 1½	-	114	26.0	90	100	76.4	118.4	90	42.6	94	75	17	21	6.3	40	420	700413	420	700727
		50	G 2	-	128	27.5	110	120	93.5	144.5	110	55.1	114	85	17	21	10.4	50	420	700414	420	700728
NPT female thread ANSI/ASME B1.20.1-1983		32	1¼ - 11½ NPT	-	103	17.3	74	80	59.5	94.5	80	36.6	84	60	17	21	3.9	32	420	700415	420	700729
		40	1½ - 11½ NPT	-	114	17.3	90	100	76.4	118.4	90	42.6	94	75	17	21	6.3	40	420	700416	420	700730
		50	2 - 11½ NPT	-	128	17.3	110	120	93.5	144.5	110	55.1	114	85	17	21	10.4	50	420	700417	420	700731
Female thread ISO 11926-1		32	1⅝- 12 UN - 2B	-	103	19.2	74	80	59.5	94.5	80	36.6	84	60	17	21	3.9	32	420	700418	420	700732
		40	1⅞ - 12 UN - 2B	-	114	19.2	90	100	76.4	118.4	90	42.6	94	75	17	21	6.3	40	420	700419	420	700733
		50	2½ - 12 UN - 2B	-	128	19.2	110	120	93.5	144.5	110	55.1	114	85	17	22	10.5	50	420	700420	420	700734

Multi-way ball valves with floating ball

3-way · steel · threaded connector · DN 4 - DN 40/25

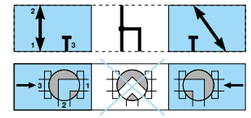


A.D.-VERSION (true 3-way)

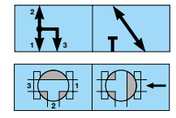
See technical information

Handle included in delivery. For handle refer to "Attachments, accessories"
Please check pressure rating of the pipe fittings!
Actuators and custom orders on request
All dimensions subject to change without notice
Also available with most other connections
All ball valves available with mounting plate
Dimensions in mm | Weight in kg | Pressure in bar

L-bore



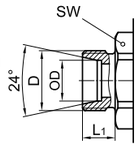
T-bore



Bore:	L	L
Cycling:	90°	90°
Body:	steel, zinc nickel plated	stainless steel
Ball:	steel, hard chrome plated	stainless steel
Stem:	steel, zinc nickel plated	stainless steel
Ball seals:	PEEK A.D.	PEEK A.D.
Stem seals:	NBR	FKM

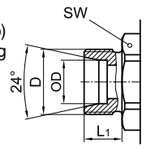
Connection

For cut (clamp) ring tube fitting DIN 2353 light series ISO 8434-1



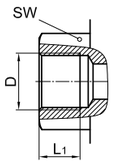
DN	Thread D	OD	L	L1	L2	B	B1	B2	H	H1	H2	SW	SW1	Handle code	Weight	DN	PN	Article no.	PN	Article no.
4	M 12 x 1.5	6	67	10	36	30	33.5	45.5	30	15.0	32.5	19	7	12	0.3	4	500	700819	500	201876
6	M 14 x 1.5	8	67	10	36	30	33.5	45.5	30	15.0	32.5	19	7	12	0.3	6	500	700820	500	201877
8	M 16 x 1.5	10	75	11	45	40	37.5	55.0	35	14.5	38.5	24	8	13	0.6	8	500	700821	500	201878
10	M 18 x 1.5	12	75	11	45	40	37.5	55.0	35	14.5	38.5	24	8	13	0.6	10	500	700822	500	201879
12	M 22 x 1.5	15	83	12	51	45	41.5	61.0	45	22.0	48.5	30	10	14	0.9	12	500	700823	500	201880
16	M 26 x 1.5	18	82	12	50	50	41.0	66.0	50	25.0	53.5	36	10	14	1.1	16	420	700824	420	201881
20	M 30 x 2	22	99	14	60	55	51.0	74.5	60	29.0	64.0	41	14	15	1.6	20	420	700825	420	201882
25	M 36 x 2	28	108	14	70	65	54.0	84.0	65	31.0	69.0	50	14	15	2.3	25	420	700826	420	201883
32/25	M 45 x 2	35	116	16	70	65	58.0	88.0	65	31.0	69.0	50	14	15	2.5	32/25	420	700827	420	201884
40/25	M 52 x 2	42	121	16	70	65	60.5	90.5	65	31.0	69.0	55	14	15	2.6	40/25	420	700828	420	201885

For cut (clamp) ring tube fitting DIN 2353 heavy series ISO 8434-1



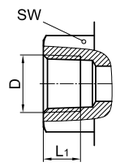
DN	Thread D	OD	L	L1	L2	B	B1	B2	H	H1	H2	SW	SW1	Handle code	Weight	DN	PN	Article no.	PN	Article no.
4	M 16 x 1.5	8	73	12	36	30	36.5	48.5	30	15.0	32.5	19	7	12	0.4	4	500	700830	500	201887
6	M 18 x 1.5	10	73	12	36	30	36.5	48.5	30	15.0	32.5	19	7	12	0.4	6	500	700831	500	201888
8	M 20 x 1.5	12	77	12	46	40	38.5	56.0	35	14.5	38.5	24	8	13	0.6	8	500	700832	500	201889
10	M 22 x 1.5	14	81	14	45	40	40.5	58.0	35	14.5	38.5	24	8	13	0.6	10	500	700833	500	201890
12	M 24 x 1.5	16	87	14	51	45	43.5	63.0	45	22.0	48.5	30	10	14	0.9	12	500	700834	500	201891
16	M 30 x 2	20	90	16	50	50	45.0	70.0	50	25.0	53.5	36	10	14	1.1	16	420	700835	420	201892
20	M 36 x 2	25	107	18	60	55	55.0	78.5	60	29.0	64.0	41	14	15	1.7	20	420	700836	420	201893
25	M 42 x 2	30	120	20	70	65	60.0	90.0	65	31.0	69.0	50	14	15	2.4	25	420	700837	420	201894
32/25	M 52 x 2	38	134	22	70	65	67.0	97.0	65	31.0	69.0	55	14	15	3.0	32/25	420	700838	420	201895

BSP-female thread DIN EN ISO 228-1



DN	Thread D	OD	L	L1	L2	B	B1	B2	H	H1	H2	SW	SW1	Handle code	Weight	DN	PN	Article no.	PN	Article no.
4	G 1/8	-	71	12	36	30	34.5	46.5	30	15.0	32.5	19	7	12	0.4	4	500	700340	500	201897
6	G 1/4	-	71	12	36	30	34.5	46.5	30	15.0	32.5	19	7	12	0.4	6	500	700341	500	201898
10	G 3/8	-	73	14	45	40	36.5	54.0	35	14.5	38.5	24	8	13	0.6	10	500	700342	500	201899
12	G 1/2	-	82	15	51	45	41.0	60.5	45	22.0	48.5	30	10	14	0.9	12	500	700343	500	201900
16	G 5/8	-	88	18	50	50	44.0	69.0	50	25.0	53.5	36	10	14	1.2	16	420	700344	420	201901
20	G 3/4	-	93	18	60	55	48.0	71.5	60	29.0	64.0	41	14	15	1.7	20	420	700345	420	201902
25	G 1	-	115	18	70	65	57.5	87.5	65	31.0	69.0	50	14	15	2.7	25	420	700346	420	201903
32/25	G 1¼	-	134	20	70	65	67.0	97.0	65	31.0	69.0	50	14	15	2.7	32/25	420	700347	420	201904
40/25	G 1½	-	139	22	70	65	69.5	99.5	65	31.0	69.0	55	14	15	2.9	40/25	420	700348	420	201905

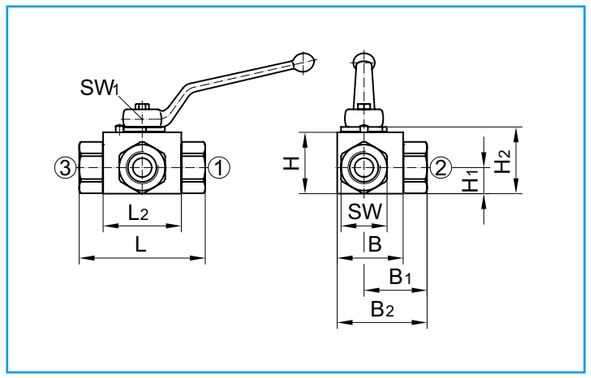
NPT-female thread ANSI/ASME B1.20.1-1983

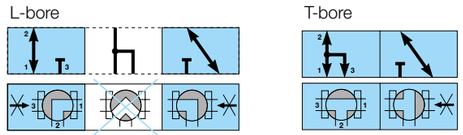


DN	Thread D	OD	L	L1	L2	B	B1	B2	H	H1	H2	SW	SW1	Handle code	Weight	DN	PN	Article no.	PN	Article no.
4	1/8 - 27 NPT	-	69	6.9	36	30	34.5	46.5	30	15.0	32.5	19	7	12	0.4	4	500	700349	500	201907
6	1/4-18 NPT	-	69	10.0	36	30	34.5	46.5	30	15.0	32.5	19	7	12	0.4	6	500	700350	500	201908
10	3/8-18 NPT	-	73	10.3	45	40	36.5	54.0	35	14.5	38.5	24	8	13	0.6	10	500	700351	500	201909
12	1/2-14 NPT	-	82	13.6	51	45	41.0	60.5	45	22.0	48.5	30	10	14	0.9	12	500	700352	500	201910
20	3/4-14 NPT	-	93	14.1	60	55	48.0	71.5	60	29.0	64.0	41	14	15	1.8	20	420	700353	420	201911
25	1-11½ NPT	-	115	16.8	70	65	57.5	87.5	65	31.0	69.0	50	14	15	2.7	25	420	700354	420	201912
32/25	1¼ - 11½ NPT	-	131	17.3	70	65	67.0	97.0	65	31.0	69.0	50	14	15	2.8	32/25	420	700355	420	201913
40/25	1½-11½ NPT	-	143	17.3	70	65	69.5	99.5	65	31.0	69.0	55	14	15	2.9	40/25	420	700356	420	201914

Multi-way ball valves with floating ball

3-way · stainless steel · threaded connector · DN 4 - DN 25





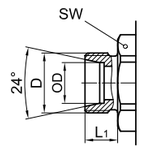
Handle included in delivery. For handle refer to "Attachments, accessories"
Application of pressure only as indicated in chapter "Technical information"
Please check pressure rating of the pipe fittings!
Full-PTFE-version. actuators and custom orders on request
Stainless steel (material no. 1.4571 - or other stainless steels)

All ball valves available with mounting plate.
Also available with most other connections
All dimensions subject to change without notice
Dimensions in mm | Weight in kg | Pressure in bar

Bore:	L	T	L	T
Cycling:	90°	90°	90°	90°
Body:	stainless steel	stainless steel	stainless steel	stainless steel
Ball:	stainless steel	stainless steel	stainless steel	stainless steel
Stem:	stainless steel	stainless steel	stainless steel	stainless steel
Ball seals:	POM	POM	PEEK	PEEK
Stem seals:	FKM	FKM	FKM	FKM

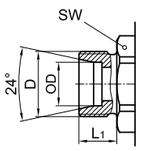
Connection

For cut (clamp) ring tube fitting DIN 2353 light series ISO 8434-1



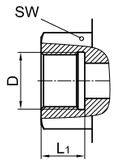
DN	Thread D	OD	L	L1	L2	B	B1	B2	H	H1	H2	SW	SW1	Handle code	Weight	DN	PN	Article no.	PN	Article no.	PN	Article no.	PN	Article no.
4	M12 x 1.5	6	67	10	36	30	33.5	45.5	30	15.0	32.5	19	7	12	0.3	4	500	200481	500	200581	500	201810	500	201843
6	M 14 x 1.5	8	67	10	36	30	33.5	45.5	30	15.0	32.5	19	7	12	0.3	6	500	200482	500	200582	500	201811	500	201844
8	M 16 x 1.5	10	75	11	45	40	37.5	55.0	35	14.5	38.5	24	8	13	0.6	8	500	200483	500	200583	500	201812	500	201845
10	M 18 x 1.5	12	75	11	45	40	37.5	55.0	35	14.5	38.5	24	8	13	0.6	10	500	200484	500	200584	500	201813	500	201846
12	M 22 x 1.5	15	83	12	51	45	41.5	61.0	45	22.0	48.5	30	10	14	0.9	12	500	200485	500	200585	500	201814	500	201847
16	M 26 x 1.5	18	99	14	60	55	51.0	74.5	60	29.0	64.0	41	14	15	1.7	16	420	200486	420	200586	420	201815	420	201848
20	M 30 x 2	22	99	14	60	55	51.0	74.5	60	29.0	64.0	41	14	15	1.6	20	420	200487	420	200587	420	201816	420	201849
25	M 36 x 2	28	108	14	70	65	54.0	84.0	65	31.0	69.0	50	14	15	2.3	25	420	200488	420	200588	420	201817	420	201850

For cut (clamp) ring tube fitting DIN 2353 heavy series ISO 8434-1



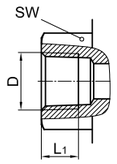
DN	Thread D	OD	L	L1	L2	B	B1	B2	H	H1	H2	SW	SW1	Handle code	Weight	DN	PN	Article no.	PN	Article no.	PN	Article no.	PN	Article no.
4	M 16 x 1.5	8	73	12	36	30	36.5	48.5	30	15.0	32.5	19	7	12	0.4	4	500	200489	500	200589	500	201819	500	201852
6	M 18 x 1.5	10	73	12	36	30	36.5	48.5	30	15.0	32.5	19	7	12	0.4	6	500	200490	500	200590	500	201820	500	201853
8	M 20 x 1.5	12	77	12	46	40	38.5	56.0	35	14.5	38.5	24	8	13	0.6	8	500	200491	500	200591	500	201821	500	201854
10	M 22 x 1.5	14	81	14	45	40	40.5	58.0	35	14.5	38.5	24	8	13	0.6	10	500	200492	500	200592	500	201822	500	201855
12	M 24 x 1.5	16	87	14	51	45	43.5	63.0	45	22.0	48.5	30	10	14	0.9	12	500	200493	500	200593	500	201823	500	201856
16	M 30 x 2	20	107	18	60	55	55.0	78.5	60	29.0	64.0	41	14	15	1.8	16	420	200494	420	200594	420	201824	420	201857
20	M 36 x 2	25	107	18	60	55	55.0	78.5	60	29.0	64.0	41	14	15	1.7	20	420	200495	420	200595	420	201825	420	201858
25	M 42 x 2	30	120	20	70	65	60.0	90.0	65	31.0	69.0	50	14	15	2.4	25	420	200496	420	200596	420	201826	420	201859

BSP-female thread DIN EN ISO 228-1



DN	Thread D	OD	L	L1	L2	B	B1	B2	H	H1	H2	SW	SW1	Handle code	Weight	DN	PN	Article no.	PN	Article no.	PN	Article no.	PN	Article no.
4	G 1/8	-	71	12	36	30	34.5	46.5	30	15.0	32.5	19	7	12	0.4	4	500	200497	500	200597	500	201828	500	201861
6	G 1/4	-	71	12	36	30	34.5	46.5	30	15.0	32.5	19	7	12	0.3	6	500	200498	500	200598	500	201829	500	201862
10	G 3/8	-	73	14	45	40	36.5	54.0	35	14.5	38.5	24	8	13	0.6	10	500	200499	500	200599	500	201830	500	201863
12	G 1/2	-	82	15	51	45	41.0	60.5	45	22.0	48.5	30	10	14	0.9	12	500	200500	500	200530	500	201831	500	201864
16	G 5/8	-	93	18	60	55	48.0	71.5	60	29.0	64.0	41	14	15	1.8	16	420	200541	420	200531	420	201832	420	201865
20	G 3/4	-	93	18	60	55	48.0	71.5	60	29.0	64.0	41	14	15	1.7	20	420	200542	420	200532	420	201833	420	201866
25	G 1	-	115	18	70	65	57.5	87.5	65	31.0	69.0	50	14	15	2.7	25	420	200543	420	200533	420	201834	420	201867

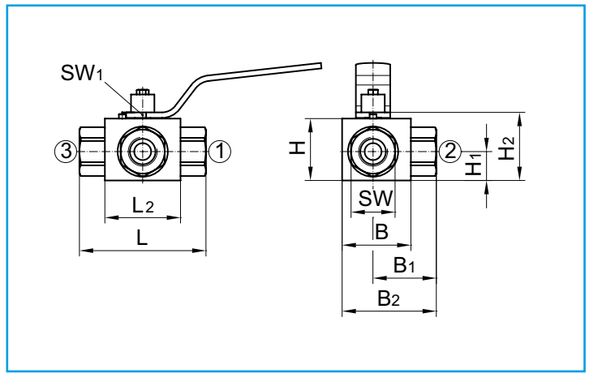
NPT-female thread ANSI/ASME B1.20.1-1983



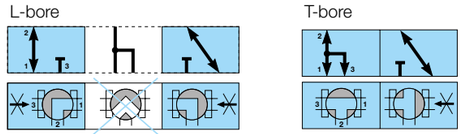
DN	Thread D	OD	L	L1	L2	B	B1	B2	H	H1	H2	SW	SW1	Handle code	Weight	DN	PN	Article no.	PN	Article no.	PN	Article no.	PN	Article no.
4	1/8 - 27 NPT	-	69	6.9	36	30	34.5	46.5	30	15.0	32.5	19	7	12	0.4	4	500	200544	500	200534	500	201836	500	201869
6	1/4 - 18 NPT	-	69	10.0	36	30	34.5	46.5	30	15.0	32.5	19	7	12	0.3	6	500	200545	500	200535	500	201837	500	201870
10	3/8 - 18 NPT	-	73	10.3	45	40	36.5	54.0	35	14.5	38.5	24	8	13	0.6	10	500	200546	500	200536	500	201838	500	201871
12	1/2 - 14 NPT	-	82	13.6	51	45	41.0	60.5	45	22.0	48.5	30	10	14	0.9	12	500	200547	500	200537	500	201839	500	201872
20	3/4 - 14 NPT	-	93	14.1	60	55	48.0	71.5	60	29.0	64.0	41	14	15	1.8	20	420	200548	420	200538	420	201840	420	201873
25	1 - 11½ NPT	-	115	16.8	70	65	57.5	87.5	65	31.0	69.0	50	14	15	2.7	25	420	200549	420	200539	420	201841	420	201874

Multi-way ball valves with floating ball

3-way · stainless steel · threaded connector · DN 4 - DN 25



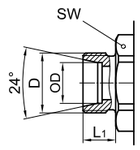
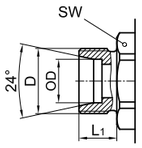
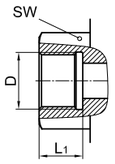
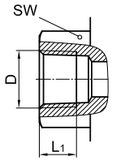
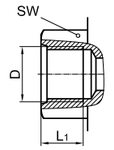
with stainless steel handle



Handle included in delivery. For handle refer to "Attachments, accessories"
Application of pressure only as indicated in chapter "Technical information"
Please check pressure rating of the pipe fittings!
Full-PTFE-version, actuators and custom orders on request
Stainless steel (material no. 1.4571 - or other stainless steels)

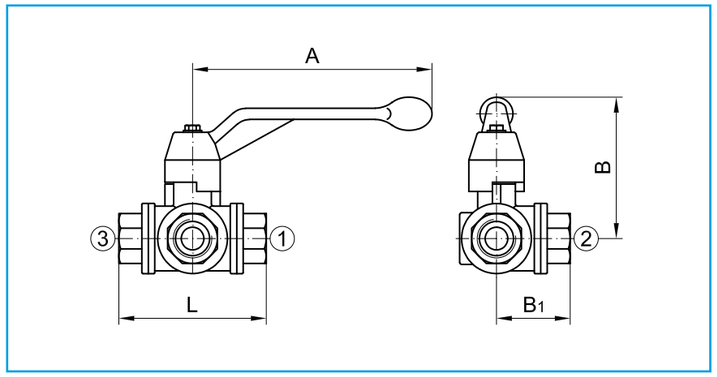
All ball valves available with mounting plate.
Also available with most other connections
All dimensions subject to change without notice
Dimensions in mm | Weight in kg | Pressure in bar

Bore:	L	T
Cycling:	90°	90°
Body:	stainless steel	stainless steel
Ball:	stainless steel	stainless steel
Stem:	stainless steel	stainless steel
Ball seals:	PTFE	PTFE
Stem seals:	FKM	FKM

Connection	DN	Thread D	OD	L	L1	L2	B	B1	B2	H	H1	H2	SW	SW1	Handle code	Weight	DN	PN	Article no.	PN	Article no.
For cut (clamp) ring tube fitting DIN 2353 light series ISO 8434-1 	4	M 12 x 1.5	6	67	10	36	30	33.5	45.5	30	15.0	34.5	19	7	32	0.3	4	315	200643	315	200695
	6	M 14 x 1.5	8	67	10	36	30	33.5	45.5	30	15.0	34.5	19	7	32	0.3	6	315	200644	315	200696
	8	M 16 x 1.5	10	75	11	45	40	37.5	55.0	35	14.5	39.5	24	8	33	0.6	8	315	200645	315	200697
	10	M 18 x 1.5	12	75	11	45	40	37.5	55.0	35	14.5	39.5	24	8	33	0.6	10	315	200646	315	200698
	12	M 22 x 1.5	15	83	12	51	45	41.5	61.0	45	22.0	49.5	30	10	34	0.9	12	315	200647	315	200699
	16	M 26 x 1.5	18	99	14	60	55	51.0	74.5	60	29.0	65.5	41	14	35	1.7	16	250	200648	250	200700
	20	M 30 x 2	22	99	14	60	55	51.0	74.5	60	29.0	65.5	41	14	35	1.6	20	250	200649	250	200701
	25	M 36 x 2	28	108	14	70	65	54.0	84.0	65	31.0	70.5	50	14	35	2.3	25	250	200650	250	200702
For cut (clamp) ring tube fitting DIN 2353 heavy series ISO 8434-1 	4	M 16 x 1.5	8	73	12	36	30	36.5	48.5	30	15.0	32.5	19	7	32	0.4	4	315	200651	315	200703
	6	M 18 x 1.5	10	73	12	36	30	36.5	48.5	30	15.0	32.5	19	7	32	0.4	6	315	200652	315	200704
	8	M 20 x 1.5	12	77	12	46	40	38.5	56.0	35	14.5	38.5	24	8	33	0.6	8	315	200653	315	200705
	10	M 22 x 1.5	14	81	14	45	40	40.5	58.0	35	14.5	38.5	24	8	33	0.6	10	315	200654	315	200706
	12	M 24 x 1.5	16	87	14	51	45	43.5	63.0	45	22.0	48.5	30	10	34	0.9	12	315	200655	315	200707
	16	M 30 x 2	20	107	18	60	55	55.0	78.5	60	29.0	64.0	41	14	35	1.8	16	250	200656	250	200708
	20	M 36 x 2	25	107	18	60	55	55.0	78.5	60	29.0	64.0	41	14	35	1.7	20	250	200657	250	200709
	25	M 42 x 2	30	120	20	70	65	60.0	90.0	65	31.0	69.0	50	14	35	2.4	25	250	200658	250	200710
BSP-female thread DIN EN ISO 228-1 	4	G 1/8	-	71	12	36	30	34.5	46.5	30	15.0	32.5	19	7	32	0.4	4	315	200659	315	200711
	6	G 1/4	-	71	12	36	30	34.5	46.5	30	15.0	32.5	19	7	32	0.3	6	315	200660	315	200712
	10	G 3/8	-	73	14	45	40	36.5	54.0	35	14.5	38.5	24	8	33	0.6	10	315	200661	315	200713
	12	G 1/2	-	82	15	51	45	41.0	60.5	45	22.0	48.5	30	10	34	0.9	12	315	200662	315	200714
	16	G 5/8	-	93	18	60	55	48.0	71.5	60	29.0	64.0	41	14	35	1.8	16	250	200663	250	200715
	20	G 3/4	-	93	18	60	55	48.0	71.5	60	29.0	64.0	41	14	35	1.7	20	250	200664	250	200716
	25	G 1	-	115	18	70	65	57.5	87.5	65	31.0	69.0	50	14	35	2.7	25	250	200665	250	200717
NPT-female thread ANSI/ASME B1.20.1-1983 	4	1/8 - 27 NPT	-	69	6.9	36	30	34.5	46.5	30	15.0	32.5	19	7	32	0.4	4	315	200666	315	200718
	6	1/4 - 18 NPT	-	69	10.0	36	30	34.5	46.5	30	15.0	32.5	19	7	32	0.3	6	315	200667	315	200719
	10	3/8 - 18 NPT	-	73	10.3	45	40	36.5	54.0	35	14.5	38.5	24	8	33	0.6	10	315	200668	315	200720
	12	1/2 - 14 NPT	-	82	13.6	51	45	41.0	60.5	45	22.0	48.5	30	10	34	0.9	12	315	200669	315	200721
	20	3/4 - 14 NPT	-	93	14.1	60	55	48.0	71.5	60	29.0	64.0	41	14	35	1.8	20	250	200670	250	200722
	25	1 - 11½ NPT	-	115	16.8	70	65	57.5	87.5	65	31.0	69.0	50	14	35	2.7	25	250	200671	250	200723
Female thread ISO 11926-1 	6	7/16 - 20 UNF - 2B	-	69	11.7	36	30	34.5	46.5	30	15.0	32.5	19	7	12	0.4	6	315	200725	315	200731
	10	9/16 - 18 UNF - 2B	-	73	12.7	45	40	36.5	54.0	35	14.5	38.5	24	8	13	0.6	10	315	200726	315	200732
	12	3/4 - 16 UNF - 2B	-	82	14.5	51	45	41.0	60.5	45	22.0	48.5	30	10	14	1.0	12	315	200727	315	200733
	20	$11^{1}/_{16}$ - 12 UN - 2B	-	93	19.0	60	55	48.0	71.5	60	29.0	64.0	41	14	15	1.8	20	250	200728	250	200734
	25	$1^{5}/_{16}$ - 12 UN - 2B	-	115	19.0	70	65	57.5	87.5	65	31.0	69.0	50	14	15	2.7	25	250	200729	250	200735

Multi-way ball valves with floating ball

3-way · brass · threaded connector · DN 6 - DN 80



Handle included in delivery.

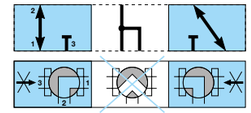
Application of pressure only as indicated in chapter "Technical information"

Actuators and custom orders on request

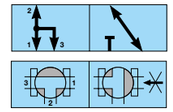
All dimensions subject to change without notice

Dimensions in mm | Weight in kg | Pressure in bar

L-bore



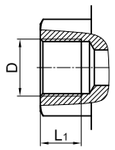
T-bore



Bore:	L	T
Cycling:	90°	90°
Body:	brass	brass
Ball:	brass, hard chrome plated	brass, hard chrome plated
Stem:	brass	brass
Ball seals:	PTFE	PTFE
Stem seals:	PTFE	PTFE

Connection

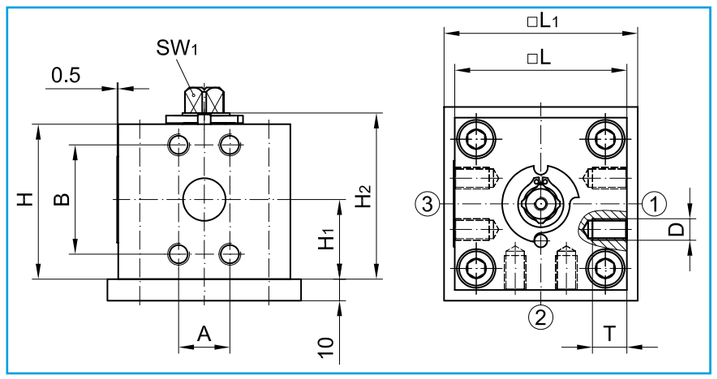
BSP-female thread
DIN EN 10226-1



DN/CW	Thread D	L	L1	A	B	B1	Weight	DN/CW	PN	Article no.	PN	Article no.
6/10	Rp 1/4	71	13	130	85	35.5	0.7	6/10	40	201501	40	201551
10/13	Rp 3/8	71	13	130	85	35.5	0.7	10/13	40	201502	40	201552
15/13	Rp 1/2	80	13	130	85	40.0	0.7	15/13	40	201503	40	201553
20/18	Rp 3/4	96	15	160	98	48.0	1.1	20/18	40	201504	40	201554
25/23	Rp 1	113	17	160	102	56.5	1.7	25/23	25	201505	25	201555
32/29	Rp 1¼	130	19	195	121	65.0	2.6	32/29	16	201506	16	201556
40/35	Rp 1½	147	22	195	125	73.5	3.7	40/35	16	201507	16	201557
50/44	Rp 2	169	27	235	141	84.5	5.8	50/44	16	201508	16	201558
80/44	Rp 3	202	35	235	141	101.0	7.0	80/44	16	201509	16	201559

Multi-way ball valves with floating ball

3-way · steel · ISO 6162 (SAE) · DN 19 - DN 32



Handle on request, refer to "Attachments, accessories".

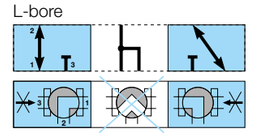
Application of pressure only as indicated in chapter "Technical information"

Actuators and custom orders on request

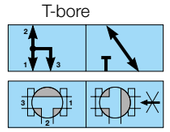
All dimensions subject to change without notice

Dimensions in mm | Weight in kg | Pressure in bar

L-bore



T-bore

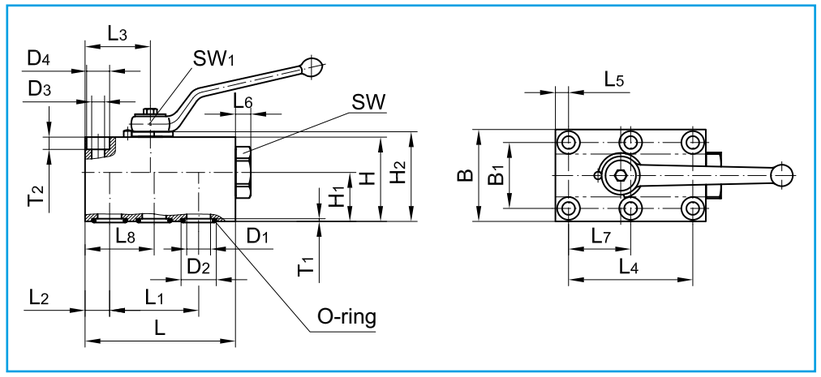


Bore	L	L	T	T
Cycling	90°	90°	90°	90°
Body:	steel, zinc nickel plated	steel, zinc nickel plated	steel, zinc nickel plated	steel, zinc nickel plated
Ball:	steel, hard chrome plated	steel, hard chrome plated	steel, hard chrome plated	steel, hard chrome plated
Stem:	steel, zinc nickel plated	steel, zinc nickel plated	steel, zinc nickel plated	steel, zinc nickel plated
Ball seals:	POM	POM	POM	POM
Stem seals:	NBR	FKM	NBR	FKM

Connection	DN	Flangesize (inch)	D	T	A	B	L	L1	H	H1	H2	SW1	Weight	DN	PN	Article no.	PN	Article no.	PN	Article no.	PN	Article no.
ISO 6162-2	19	3/4	M 10	21	23.8	50.8	80	90	72	37	77.5	14	4.0	19	420	204301	420	204306	420	204311	420	204316
	25	1	M 12	23	27.8	57.2	90	100	80	40	85.5	14	5.5	25	420	204302	420	204307	420	204312	420	204317
	32	1¼	M 12	24	31.8	66.6	100	110	100	50	106.0	17	8.0	32	420	204304	420	204309	420	204314	420	204319
	19	3/4	3/8 - 16 UNC	24	23.8	50.8	80	90	72	37	77.5	14	4.0	20	420	204321	420	204326	420	204331	420	204336
	25	1	7/16 - 14 UNC	27	27.8	57.2	90	100	80	40	85.5	14	5.5	25	420	204322	420	204327	420	204332	420	204337
	32	1¼	1/2 - 13 UNC	28	31.8	66.7	100	110	100	50	106.0	17	8.0	32	420	204323	420	204328	420	204333	420	204338

Multi-way ball valves with floating ball

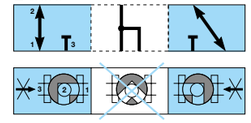
3-way · steel · manifold mounting · DN 6 - DN 65



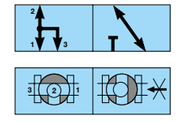
Handle and o-rings included in delivery
For handle refer to "Attachments, accessories"
Application of pressure only as indicated in chapter "Technical information"
Actuators and custom orders on request
All dimensions subject to change without notice
*) DN 32 to DN 65: grey cast iron

Dimensions in mm | Weight in kg | Pressure in bar

L-bore



T-bore



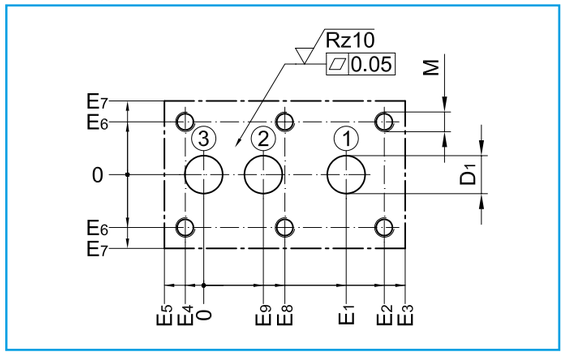
Bore:	L	L	T
Cycling:	90°	90°	90°
Body*:	steel, black oxide	steel, zinc nickel plated	steel, black oxide
Ball:	steel, hard chrome plated	steel, hard chrome plated	steel, hard chrome plated
Stem:	steel, zinc nickel plated	steel, zinc nickel plated	steel, zinc nickel plated
Body seals:	NBR	NBR	NBR
Ball seals:	POM	POM	POM
Stem seals:	NBR	NBR	NBR

Connection	DN	L	L1	L2	L3	L4	L5	L6	L7	L8	B	B1	H	H1	H2	T1	T2	DN	D1	D2	D3	D4	SW	SW1	Handle code	Weight	For cylinder head screws DIN EN ISO 4762 (DIN 912)	PN	Article no.	PN	Article no.	PN	Article no.
Body-Flange with O-ring seal	6	59	35	8.5	23.5	35	8.5	4.5	17.5	26.0	40	27	35	20	38	1.8	6.8	6	6.0	12.0	6.4	11	24	7	12	0.6	M 6	500	206101	500	700421	500	206121
	10	73	44	10.0	29.0	55	7.5	7.0	27.5	29.0	55	40	45	25	49	1.8	8.0	10	9.5	15.0	8.4	-	32	8	13	1.2	M 8	500	206102	500	700422	500	206122
	12	98	58	16.0	42.5	83	7.5	10.0	41.5	42.5	60	45	55	32	59	1.8	8.0	12	12.5	25.0	8.4	-	36	10	14	2.1	M 8	500	206103	500	700423	500	206123
	20	117	69	20.0	52.0	97	10.0	12.0	48.5	52.0	70	51	70	39	74	2.7	11.0	20	20.0	30.0	10.5	17	-	14	15	4.0	M 10	420	206104	420	700424	420	206124
	25	138	81	24.0	62.0	115	10.0	7.0	57.5	62.0	80	60	80	46	84	2.7	11.0	25	24.0	35.0	10.5	17	50	14	15	5.6	M 10	420	206105	420	700425	420	206125
	32	165	96	29.0	75.0	136	12.0	11.0	68.0	75.0	100	75	100	57	105	2.7	12.0	32	32.0	40.0	13.0	19	70	17	21	11.1	M 12	420	206106	420	700426	420	206126
	40	175	112	28.5	84.5	112	28.5	25.0	56.0	84.5	130	95	100	53	105	2.7	17.5	40	38.0	48.5	17.0	26	-	17	21	15.2	M 16	420	206107	420	700427	420	206127
	50	215	136	38.0	106.0	136	38.0	25.0	68.0	106.0	150	112	110	55	115	2.7	20.0	50	48.0	55.5	21.0	33	-	17	22	22.7	M 20	420	206108	420	700428	420	206128
	65	320	190	55.0	150.0	210	45.0	63.0	105.0	150.0	235	185	157	79	162	2.8	25.5	65	62.0	79.0	26.0	40	-	22	11	101.5	M 24	-	-	420	700525	-	-

DN	D1	E1	E2	E3	E4	E5	E6	E7	E8	E9	M	O-ring
6	6.0	35	35.0	50.5	0.0	8.5	13.5	20.0	17.5	17.5	M 6	7.50 x 2.50
10	9.5	44	52.5	63.0	2.5	10.0	20.0	27.5	25.0	19.0	M 8	10.50 x 2.50
12	15.5	58	74.5	82.0	8.5	16.0	22.5	30.0	33.0	26.5	M 8	20.50 x 2.50
20	20.0	69	87.0	97.0	10.0	20.0	25.5	35.0	38.5	32.0	M 10	23.50 x 3.50
25	24.0	81	101.0	114.0	14.0	24.0	30.0	40.0	43.5	38.0	M 10	28.50 x 3.50
32	32.0	96	119.0	136.0	17.0	29.0	39.0	50.0	51.0	46.0	M 12	33.50 x 3.50
40	38.0	112	112.0	146.5	0.0	28.5	47.5	65.0	56.0	56.0	M 16	42.00 x 3.50
50	48.0	136	136.0	177.0	0.0	38.0	56.0	75.0	68.0	68.0	M 20	49.00 x 3.50
65	62.0	190	200.0	265.0	10.0	55.0	92.5	117.5	95.0	95.0	M 24	72.66 x 3.53

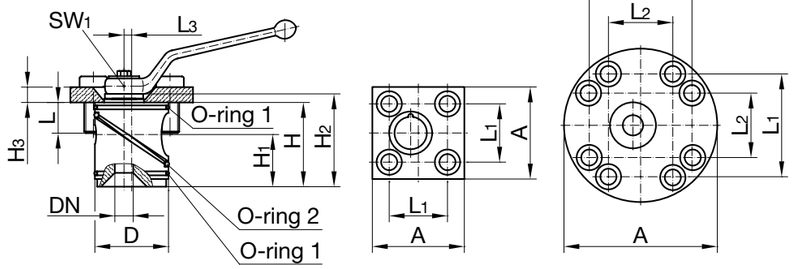
General tolerances DIN ISO 2768
Surfaces DIN EN ISO 4287

Drilling pattern



Multi-way ball valves with floating ball

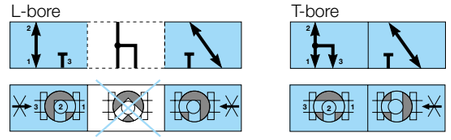
3-way · steel · manifold insertion as cartridge type · DN 6 - DN 50



Flange DN 6 - DN 32 Flange DN 40 + DN 50

Handle and attachment screws included in delivery
For handles refer to "Attachments, accessories"
Application of pressure only as indicated in chapter "Technical information"
Actuators and custom orders on request
All dimensions subject to change without notice
Dimensions in mm | Weight in kg | Pressure in bar

L-bore T-bore



Bore:	L	T
Cycling:	90°	90°
Body*:	steel, black oxide	steel, black oxide
Ball:	steel, hard chrome plated	steel, hard chrome plated
Stem:	steel, zinc nickel plated	steel, zinc nickel plated
Body seals:	NBR	NBR
Ball seals:	POM	POM
Stem seals:	NBR	NBR

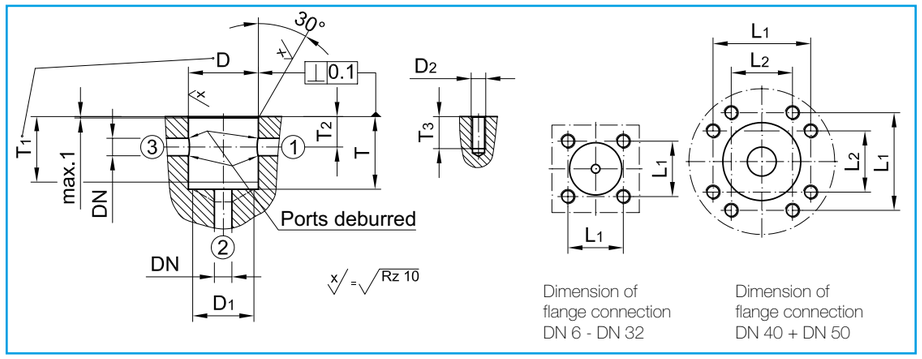
Connection	DN	D	H	H1	H2	H3	L	L1	L2	L3	SW1	A	Handle code	DN	O-ring 1	O-ring 2	Weight	For cylinder head screw DIN EN ISO 4762 (DIN 912)	PN	Article no.	PN	Article no.
Body-Flange with O-ring seal	6	36	39.9	26.3	45.8	8	20	38	-	5.0	7	60	12	6	31.00 x 1.50	32.00 x 3.00	0.6	M 10 x 25	500	107031	500	107041
	10	45	50.9	32.5	55.8	10	20	50	-	5.0	8	80	13	10	40.00 x 2.00	42.00 x 3.00	1.2	M 12 x 25	500	107032	500	107042
	12	48	54.9	34.0	61.5	10	20	50	-	5.0	10	80	14	12	43.00 x 2.00	46.00 x 3.00	1.3	M 12 x 25	420	107033	420	107043
	16	54	58.9	36.0	64.5	10	20	60	-	5.5	10	90	14	16	49.00 x 2.00	50.39 x 3.53	1.6	M 12 x 25	315	107034	315	107044
	20	63	72.9	44.0	82.5	18	25	70	-	7.0	14	100	15	20	55.20 x 3.00	61.00 x 3.50	3.0	M 16 x 35	315	107035	315	107045
	25	70	78.9	47.0	89.0	18	25	70	-	7.0	14	100	15	25	63.00 x 3.00	67.00 x 4.00	3.3	M 16 x 35	315	107036	315	107046
	32	92	100.0	57.5	132.5	35	30	100	-	10.0	17	140	21	32	82.14 x 3.53	92.00 x 5.00	9.3	M 20 x 50	315	107037	315	107047
	40	107	116.0	66.0	150.5	35	30	134	84	10.0	17	200	21	40	98.02 x 3.53	108.00 x 6.00	14.8	M 20 x 50	315	107038	315	107048
	50	126	130.0	73.0	165.0	35	30	152	96	11.6	17	230	22	50	117.07 x 3.53	124.00 x 6.00	20.6	M 20 x 50	315	107039	315	107049

Mounting-tool

DN	D H9	D1 max.	D2	L1 ±0.2	L2 ±0.2	T 0.1	T1 0.2	T2 0.1	T3 min.	DN	Article no.
6	36	31	M 10	38	-	40	38	13.6	22	6	107051
10	45	39	M 12	50	-	51	47	18.4	22	10	107052
12	48	42	M 12	50	-	55	50	20.9	22	12	107053
16	54	47	M 12	60	-	59	54	22.9	22	16	107054
20	63	55	M 16	70	-	73	69	28.9	28	20	107055
25	70	62	M 16	70	-	79	74	31.9	28	25	107056
32	92	80	M 20	100	-	100	96	42.5	33	32	107057
40	107	95	M 20	134	84	116	111	55.00	33	40	107058
50	126	115	M 20	152	96	130	125	57.00	33	50	107059

General tolerances
DIN ISO 2768
Surfaces
DIN EN ISO 4287

Drilling pattern

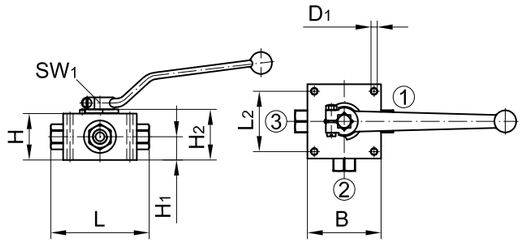


Dimension of flange connection DN 6 - DN 32

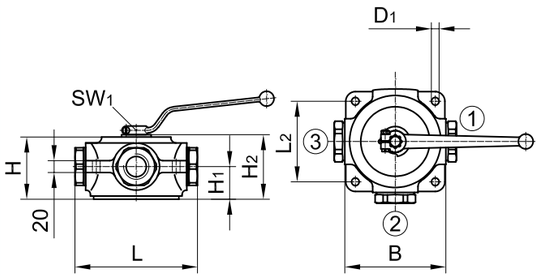
Dimension of flange connection DN 40 + DN 50

Multi-way ball valves with trunnion ball

3-way · steel · threaded connector · DN 4 - DN 40



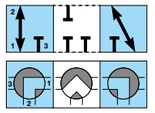
DN 4 - DN 32



DN 40

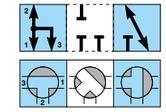
Handle included in delivery
For more porting patterns refer to "Standard- and special porting patterns".
Also available with most other connections
Please check pressure rating of the pipe fittings!
*) can be actuated up to 100 bar manually

L-bore



**) DN 40: grey cast iron
***) DN 40: grey cast iron, hard chrome plated
For handles refer to "Attachments, accessories"
Actuators and custom orders on request
All dimensions subject to change without notice
Dimensions in mm | Weight in kg | Pressure in bar

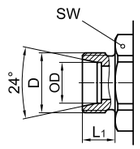
T-bore



Bore:	L	L	T	T
Cycling:	90°	90°	90°	90°
Body**:	steel, black oxide	steel, black oxide	steel, black oxide	steel, black oxide
Trunnion ball***:	steel, hard chrome plated	steel, hard chrome plated	steel, hard chrome plated	steel, hard chrome plated
Ball seals:	POM	PTFE	POM	PTFE
Stem seals:	NBR	FKM	NBR	FKM

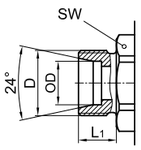
Connection

For cut (clamp) ring tube fitting DIN 2353 light series ISO 8434-1



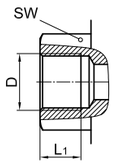
DN	Thread D	OD	L	L1	L2	B	H	H1	H2	D1	SW	SW1	Handle code	Weight	DN	PN	Article no.	PN	Article no.	PN	Article no.	PN	Article no.
4	M 12 x 1.5	6	100	10	55	70	40	20.0	44.5	6.7	19	12	7	1.6	4	500	202001	100	202026	500	202051	100	202076
6	M 14 x 1.5	8	100	10	55	70	40	20.0	44.5	6.7	19	12	7	1.6	6	500	202002	100	202027	500	202052	100	202077
8	M 16 x 1.5	10	109	11	65	80	50	25.0	54.5	6.7	24	14	8	2.5	8	500	202003	100	202028	500	202053	100	202078
10	M 18 x 1.5	12	109	11	65	80	50	25.0	54.5	6.7	24	14	8	2.5	10	500	202004	100	202029	500	202054	100	202079
12	M 22 x 1.5	15	130	12	80	100	55	27.5	59.5	8.4	30	14	8	4.2	12	500	202005	100	202030	500	202055	100	202080
16/12	M 26 x 1.5	18	136	12	80	100	55	27.5	59.5	8.4	30	14	8	4.3	16/12	500	202006	100	202031	500	202056	100	202081
20	M 30 x 2	22	138	14	85	100	75	40.0	79.5	8.4	41	19	10	5.7	20	315	202901	100	202902	315	202903	100	202904
25	M 36 x 2	28	157	14	105	120	81	43.5	85.5	10.5	50	19	10	8.6	25	315	202921	100	202922	315	202923	100	202924
32	M 45 x 2	35	210	16	106	Ø180	100	50.0	104.5	10.5	60	19	10	17.1	32	315*	202253	100	202278	315*	202303	100	202328
40	M 52 x 2	42	256	16	150	190	116	61.0	120.5	14.5	75	19	10	20.8	40	100	202940	100	202955	100	202970	100	202985

For cut (clamp) ring tube fitting DIN 2353 heavy series ISO 8434-1



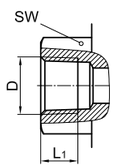
DN	Thread D	OD	L	L1	L2	B	H	H1	H2	D1	SW	SW1	Handle code	Weight	DN	PN	Article no.	PN	Article no.	PN	Article no.	PN	Article no.
4	M 16 x 1.5	8	106	12	55	70	40	20.0	44.5	6.7	19	12	7	1.6	4	500	202007	100	202032	500	202057	100	202082
6	M 18 x 1.5	10	106	12	55	70	40	20.0	44.5	6.7	19	12	7	1.6	6	500	202008	100	202033	500	202058	100	202083
8	M 20 x 1.5	12	111	12	65	80	50	25.0	54.5	6.7	24	14	8	2.5	8	500	202009	100	202034	500	202059	100	202084
10	M 22 x 1.5	14	115	14	65	80	50	25.0	54.5	6.7	24	14	8	2.5	10	500	202010	100	202035	500	202060	100	202085
12	M 24 x 1.5	16	134	14	80	100	55	27.5	59.5	8.4	30	14	8	4.2	12	500	202011	100	202036	500	202061	100	202086
16/12	M 30 x 2	20	144	16	80	100	55	27.5	59.5	8.4	36	14	8	4.3	16/12	500	202012	100	202037	500	202062	100	202087
20	M 36 x 2	25	146	18	85	100	75	40.0	79.5	8.4	41	19	10	5.8	20	315	202905	100	202906	315	202907	100	202908
25	M 42 x 2	30	169	20	105	120	81	43.5	85.5	10.5	50	19	10	8.7	25	315	202925	100	202926	315	202927	100	202928
32	M 52 x 2	38	222	22	106	Ø180	100	50.0	104.5	10.5	60	19	10	17.4	32	315*	202257	100	202282	315*	202307	100	202332

BSP-female thread DIN EN ISO 228-1



DN	Thread D	OD	L	L1	L2	B	H	H1	H2	D1	SW	SW1	Handle code	Weight	DN	PN	Article no.	PN	Article no.	PN	Article no.	PN	Article no.
4	G 1/8	-	102	12	55	70	40	20.0	44.5	6.7	19	12	7	1.6	4	500	202013	100	202038	500	202063	100	202088
6	G 1/4	-	102	12	55	70	40	20.0	44.5	6.7	19	12	7	1.6	6	500	202014	100	202039	500	202064	100	202089
10	G 3/8	-	107	14	65	80	50	25.0	54.5	6.7	24	14	8	2.5	10	500	202015	100	202040	500	202065	100	202090
12	G 1/2	-	129	15	80	100	55	27.5	59.5	8.4	30	14	8	4.2	12	500	202016	100	202041	500	202066	100	202091
16/12	G 5/8	-	146	18	80	100	55	27.5	59.5	8.4	36	14	8	4.3	16/12	500	202017	100	202042	500	202067	100	202092
20	G 3/4	-	132	18	85	100	75	40.0	79.5	8.4	41	19	10	5.8	20	315	202909	100	202910	315	202911	100	202912
25	G 1	-	162	20	105	120	81	43.5	85.5	10.5	50	19	10	9.0	25	315	202929	100	202930	315	202931	100	202932
32	G 1¼	-	188	20	106	Ø180	100	50.0	104.5	10.5	60	19	10	16.6	32	315*	202260	100	202285	315*	202310	100	202335
40	G 1½	-	224	25	150	190	116	61.0	120.5	14.5	75	19	10	20.3	40	100	202947	100	202962	100	202977	100	202992

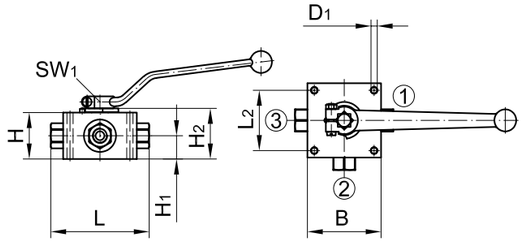
NPT-female thread ANSI/ASME B1.20.1-1983



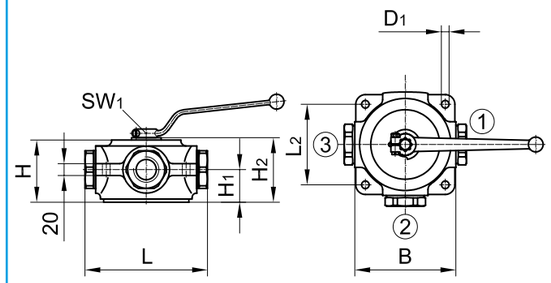
DN	Thread D	OD	L	L1	L2	B	H	H1	H2	D1	SW	SW1	Handle code	Weight	DN	PN	Article no.	PN	Article no.	PN	Article no.	PN	Article no.
4	1/8 - 27 NPT	-	102	6.9	55	70	40	20.0	44.5	6.7	19	12	7	1.6	4	500	202018	100	202043	500	202068	100	202093
6	1/4 - 18 NPT	-	102	10.0	55	70	40	20.0	44.5	6.7	19	12	7	1.6	6	500	202019	100	202044	500	202069	100	202094
10	3/8 - 18 NPT	-	107	10.3	65	80	50	25.0	54.5	6.7	24	14	8	2.5	10	500	202020	100	202045	500	202070	100	202095
12	1/2 - 14 NPT	-	129	13.6	80	100	55	27.5	59.5	8.4	30	14	8	4.2	12	500	202021	100	202046	500	202071	100	202096
20	3/4 - 14 NPT	-	132	14.1	85	100	75	40.0	79.5	8.4	41	19	10	5.8	20	315	202913	100	202914	315	202915	100	202916
25	1 - 11½ NPT	-	162	16.8	105	120	81	43.5	85.5	10.5	50	19	10	9.0	25	315	202933	100	202934	315	202935	100	202936
32	1¼ - 11½ NPT	-	188	17.3	106	Ø180	100	50.0	104.5	10.5	60	19	10	16.6	32	315*	202264	100	202289	315*	202314	100	202339
40	1½ - 11½ NPT	-	224	17.3	150	190	116	61.0	120.5	14.5	75	19	10	20.3	40	100	202951	100	202966	100	202981	100	202996

Multi-way ball valves with trunnion ball

3-way · steel · threaded connector · DN 4 - DN 40



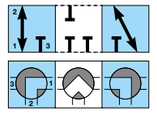
DN 4 - DN 32



DN 40

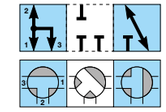
Handle included in delivery
For more porting patterns refer to "Standard- and special porting patterns".
Also available with most other connections
Please check pressure rating of the pipe fittings!
*) can be actuated up to 100 bar manually

L-bore



**) DN 40: grey cast iron
***) DN 40: grey cast iron, hard chrome plated
For handles refer to "Attachments, accessories"
Actuators and custom orders on request
All dimensions subject to change without notice
Dimensions in mm | Weight in kg | Pressure in bar

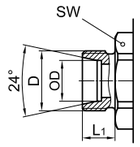
T-bore



Bore:	L	T
Cycling:	90°	90°
Body**:	steel, zinc nickel plated	steel, zinc nickel plated
Trunnion ball***:	steel, hard chrome plated	steel, hard chrome plated
Ball seals:	POM	POM
Stem seals:	NBR	NBR

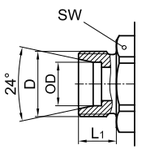
Connection

For cut (clamp) ring tube fitting DIN 2353 light series ISO 8434-1



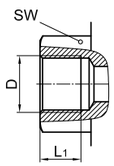
DN	Thread D	OD	L	L_1	L_2	B	H	H_1	H_2	D_1	SW	SW_1	Handle code	Weight	DN	PN	Article no.	PN	Article no.
4	M 12 x 1.5	6	100	10	55	70	40	20.0	44.5	6.7	19	12	7	1.6	4	500	700736	500	700773
6	M 14 x 1.5	8	100	10	55	70	40	20.0	44.5	6.7	19	12	7	1.6	6	500	700737	500	700774
8	M 16 x 1.5	10	109	11	65	80	50	25.0	54.5	6.7	24	14	8	2.5	8	500	700738	500	700775
10	M 18 x 1.5	12	109	11	65	80	50	25.0	54.5	6.7	24	14	8	2.5	10	500	700739	500	700776
12	M 22 x 1.5	15	130	12	80	100	55	27.5	59.5	8.4	30	14	8	4.2	12	500	700740	500	700777
16/12	M 26 x 1.5	18	136	12	80	100	55	27.5	59.5	8.4	30	14	8	4.3	16/12	500	700741	500	700778
20	M 30 x 2	22	138	14	85	100	75	40.0	79.5	8.4	41	19	10	5.7	20	315	700742	315	700779
25	M 36 x 2	28	157	14	105	120	81	43.5	85.5	10.5	50	19	10	8.6	25	315	700743	315	700780
32	M 45 x 2	35	210	16	106	Ø180	100	50.0	104.5	10.5	60	19	10	17.1	32	315*	700744	315*	700781
40	M 52 x 2	42	256	16	150	190	116	61.0	120.5	14.5	75	19	10	20.8	40	100	700745	100	700782

For cut (clamp) ring tube fitting DIN 2353 heavy series ISO 8434-1



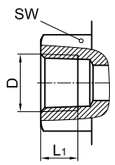
DN	Thread D	OD	L	L_1	L_2	B	H	H_1	H_2	D_1	SW	SW_1	Handle code	Weight	DN	PN	Article no.	PN	Article no.
4	M 16 x 1.5	8	106	12	55	70	40	20.0	44.5	6.7	19	12	7	1.6	4	500	700746	500	700783
6	M 18 x 1.5	10	106	12	55	70	40	20.0	44.5	6.7	19	12	7	1.6	6	500	700747	500	700784
8	M 20 x 1.5	12	111	12	65	80	50	25.0	54.5	6.7	24	14	8	2.5	8	500	700748	500	700785
10	M 22 x 1.5	14	115	14	65	80	50	25.0	54.5	6.7	24	14	8	2.5	10	500	700749	500	700786
12	M 24 x 1.5	16	134	14	80	100	55	27.5	59.5	8.4	30	14	8	4.2	12	500	700750	500	700787
16/12	M 30 x 2	20	144	16	80	100	55	27.5	59.5	8.4	36	14	8	4.3	16/12	500	700751	500	700788
20	M 36 x 2	25	146	18	85	100	75	40.0	79.5	8.4	41	19	10	5.8	20	315	700752	315	700789
25	M 42 x 2	30	169	20	105	120	81	43.5	85.5	10.5	50	19	10	8.7	25	315	700753	315	700790
32	M 52 x 2	38	222	22	106	Ø180	100	50.0	104.5	10.5	60	19	10	17.4	32	315*	700754	315*	700791

BSP-female thread DIN EN ISO 228-1



DN	Thread D	OD	L	L_1	L_2	B	H	H_1	H_2	D_1	SW	SW_1	Handle code	Weight	DN	PN	Article no.	PN	Article no.
4	G 1/8	-	102	12	55	70	40	20.0	44.5	6.7	19	12	7	1.6	4	500	700755	500	700792
6	G 1/4	-	102	12	55	70	40	20.0	44.5	6.7	19	12	7	1.6	6	500	700756	500	700793
10	G 3/8	-	107	14	65	80	50	25.0	54.5	6.7	24	14	8	2.5	10	500	700757	500	700794
12	G 1/2	-	129	15	80	100	55	27.5	59.5	8.4	30	14	8	4.2	12	500	700758	500	700795
16/12	G 5/8	-	146	18	80	100	55	27.5	59.5	8.4	36	14	8	4.3	16/12	500	700759	500	700796
20	G 3/4	-	132	18	85	100	75	40.0	79.5	8.4	41	19	10	5.8	20	315	700760	315	700797
25	G 1	-	162	20	105	120	81	43.5	85.5	10.5	50	19	10	9.0	25	315	700761	315	700798
32	G 1¼	-	188	20	106	Ø180	100	50.0	104.5	10.5	60	19	10	16.6	32	315*	700762	315*	700799
40	G 1½	-	224	25	150	190	116	61.0	120.5	14.5	75	19	10	20.3	40	100	700763	100	700800

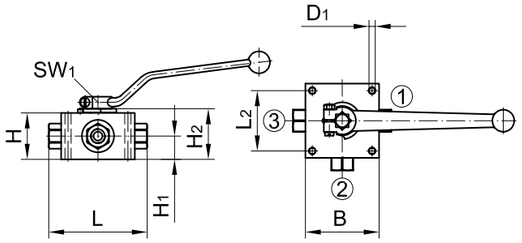
NPT-female thread ANSI/ASME B1.20.1-1983



DN	Thread D	OD	L	L_1	L_2	B	H	H_1	H_2	D_1	SW	SW_1	Handle code	Weight	DN	PN	Article no.	PN	Article no.
4	1/8 - 27 NPT	-	102	6.9	55	70	40	20.0	44.5	6.7	19	12	7	1.6	4	500	700764	500	700801
6	1/4 - 18 NPT	-	102	10.0	55	70	40	20.0	44.5	6.7	19	12	7	1.6	6	500	700765	500	700802
10	3/8 - 18 NPT	-	107	10.3	65	80	50	25.0	54.5	6.7	24	14	8	2.5	10	500	700766	500	700803
12	1/2 - 14 NPT	-	129	13.6	80	100	55	27.5	59.5	8.4	30	14	8	4.2	12	500	700767	500	700804
20	3/4 - 14 NPT	-	132	14.1	85	100	75	40.0	79.5	8.4	41	19	10	5.8	20	315	700768	315	700805
25	1 - 11½ NPT	-	162	16.8	105	120	81	43.5	85.5	10.5	50	19	10	9.0	25	315	700769	315	700806
32	1¼ - 11½ NPT	-	188	17.3	106	Ø180	100	50.0	104.5	10.5	60	19	10	16.6	32	315*	700770	315*	700807
40	1½ - 11½ NPT	-	224	17.3	150	190	116	61.0	120.5	14.5	75	19	10	20.3	40	100	700771	100	700808

Multi-way ball valves with trunnion ball

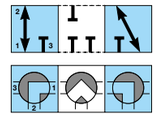
3-way · stainless steel · threaded connector · DN 4 - DN 32



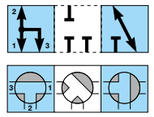
Handle included in delivery
For handles refer to "Attachments, accessories"
For more porting patterns refer to "Standard- and special porting patterns".
Stainless steel (material no. 1.4571 - or other stainless steels)
Also available with most other connections
Actuators and custom orders on request
All dimensions subject to change without notice

*) can be actuated up to 100 bar manually
Dimensions in mm | Weight in kg | Pressure in bar

L-bore



T-bore

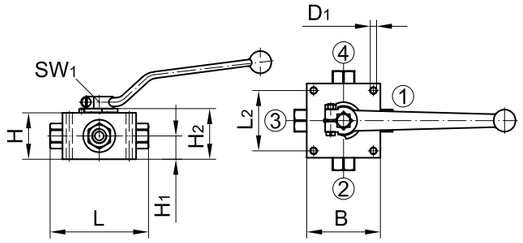


Bore:	L	L	T	T
Cycling:	90°	90°	90°	90°
Body:	stainless steel	stainless steel	stainless steel	stainless steel
Trunnion ball:	stainless steel	stainless steel	stainless steel	stainless steel
Ball seals:	PTFE	PEEK	PTFE	PEEK
Stem seals:	FKM	FKM	FKM	FKM

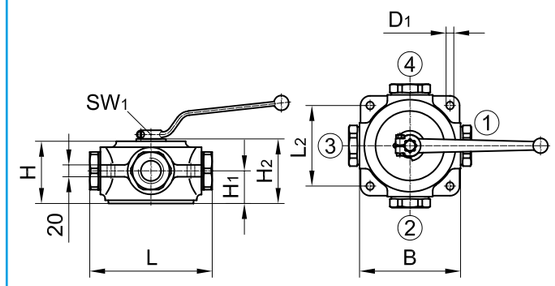
Connection	DN	Thread D	OD	L	L1	L2	B	H	H1	H2	D1	SW	SW1	Handle code	Weight	DN	PN	Article no.	PN	Article no.	PN	Article no.	PN	Article no.
For cut (clamp) ring tube fitting DIN 2353 light series ISO 8434-1	4	M 12 x 1.5	6	100	10	55	70	40	20.0	44.5	6.7	19	12	7	1.6	4	100	202501	500	202650	100	202551	500	202685
	6	M 14 x 1.5	8	100	10	55	70	40	20.0	44.5	6.7	19	12	7	1.6	6	100	202502	500	202651	100	202552	500	202686
	8	M 16 x 1.5	10	109	11	65	80	50	25.0	54.5	6.7	24	14	8	2.5	8	100	202503	500	202652	100	202553	500	202687
	10	M 18 x 1.5	12	109	11	65	80	50	25.0	54.5	6.7	24	14	8	2.5	10	100	202504	500	202653	100	202554	500	202688
	12	M 22 x 1.5	15	130	12	80	100	55	27.5	59.5	8.4	30	14	8	4.2	12	100	202505	500	202654	100	202555	500	202689
	16/12	M 26 x 1.5	18	136	12	80	100	55	27.5	59.5	8.4	30	14	8	4.3	16/12	100	202506	500	202655	100	202556	500	202690
	20	M 30 x 2	22	138	14	85	100	75	40.0	79.5	8.4	41	19	10	5.7	20	100	202751	315	202656	100	202801	315	202691
	25	M 36 x 2	28	157	14	105	120	81	43.5	85.5	10.5	50	19	10	8.6	25	100	202752	315	202657	100	202802	315	202692
	32	M 45 x 2	35	210	16	106	Ø180	100	50.0	104.5	10.5	60	19	10	17.1	32	100	202753	315*	202658	100	202803	315*	202693
For cut (clamp) ring tube fitting DIN 2353 heavy series ISO 8434-1	4	M 16 x 1.5	8	106	12	55	70	40	20.0	44.5	6.7	19	12	7	1.6	4	100	202507	500	202660	100	202557	500	202695
	6	M 18 x 1.5	10	106	12	55	70	40	20.0	44.5	6.7	19	12	7	1.6	6	100	202508	500	202661	100	202558	500	202696
	8	M 20 x 1.5	12	111	12	65	80	50	25.0	54.5	6.7	24	14	8	2.5	8	100	202509	500	202662	100	202559	500	202697
	10	M 22 x 1.5	14	115	14	65	80	50	25.0	54.5	6.7	24	14	8	2.5	10	100	202510	500	202663	100	202560	500	202698
	12	M 24 x 1.5	16	134	14	80	100	55	27.5	59.5	8.4	30	14	8	4.2	12	100	202511	500	202664	100	202561	500	202699
	16/12	M 30 x 2	20	144	16	80	100	55	27.5	59.5	8.4	36	14	8	4.3	16/12	100	202512	500	202665	100	202562	500	202700
	20	M 36 x 2	25	146	18	85	100	75	40.0	79.5	8.4	41	19	10	5.8	20	100	202755	315	202666	100	202805	315	202701
	25	M 42 x 2	30	169	20	105	120	81	43.5	85.5	10.5	50	19	10	8.7	25	100	202756	315	202667	100	202806	315	202702
	32	M 52 x 2	38	222	22	106	Ø180	100	50.0	104.5	10.5	60	19	10	17.4	32	100	202757	315*	202668	100	202807	315*	202703
BSP-female thread DIN EN ISO 228-1	4	G 1/8	-	102	12	55	70	40	20.0	44.5	6.7	19	12	7	1.6	4	100	202513	500	202669	100	202563	500	202704
	6	G 1/4	-	102	12	55	70	40	20.0	44.5	6.7	19	12	7	1.6	6	100	202514	500	202670	100	202564	500	202705
	10	G 3/8	-	107	14	65	80	50	25.0	54.5	6.7	24	14	8	2.5	10	100	202515	500	202671	100	202565	500	202706
	12	G 1/2	-	129	15	80	100	55	27.5	59.5	8.4	30	14	8	4.2	12	100	202516	500	202672	100	202566	500	202707
	16/12	G 5/8	-	146	18	80	100	55	27.5	59.5	8.4	36	14	8	4.3	16/12	100	202517	500	202673	100	202567	500	202708
	20	G 3/4	-	132	18	85	100	75	40.0	79.5	8.4	41	19	10	5.8	20	100	202758	315	202674	100	202808	315	202709
	25	G 1	-	162	20	105	120	81	43.5	85.5	10.5	50	19	10	9.0	25	100	202759	315	202675	100	202809	315	202710
	32	G 1¼	-	188	20	106	Ø180	100	50.0	104.5	10.5	60	19	10	16.6	32	100	202760	315*	202676	100	202810	315*	202711
NPT-female thread ANSI/ASME B1.20.1-1983	4	1/8 - 27 NPT	-	102	6.9	55	70	40	20.0	44.5	6.7	19	12	7	1.6	4	100	202518	500	202677	100	202568	500	202712
	6	1/4 - 18 NPT	-	102	10.0	55	70	40	20.0	44.5	6.7	19	12	7	1.6	6	100	202519	500	202678	100	202569	500	202713
	10	3/8 - 18 NPT	-	107	10.3	65	80	50	25.0	54.5	6.7	24	14	8	2.5	10	100	202520	500	202679	100	202570	500	202714
	12	1/2 - 14 NPT	-	129	13.6	80	100	55	27.5	59.5	8.4	30	14	8	4.2	12	100	202521	500	202680	100	202571	500	202715
	20	3/4 - 14 NPT	-	132	14.1	85	100	75	40.0	79.5	8.4	41	19	10	5.8	20	100	202762	315	202681	100	202812	315	202716
	25	1 - 11½ NPT	-	162	16.8	105	120	81	43.5	85.5	10.5	50	19	10	9.0	25	100	202763	315	202682	100	202813	315	202717
	32	1¼ - 11½ NPT	-	188	17.3	106	Ø180	100	50.0	104.5	10.5	60	19	10	16.6	32	100	202764	315*	202683	100	202814	315*	202718

Multi-way ball valves with trunnion ball

4-way · steel · threaded connector · DN 4 - DN 40



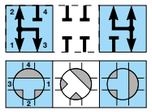
DN 4 - DN 32



DN 40

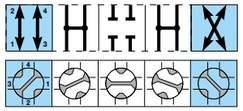
Handle included in delivery
For more porting patterns refer to "Standard- and special porting patterns".
Also available with most other connections
Please check pressure rating of the pipe fittings!
*) can be actuated up to 100 bar manually
**) DN 40: grey cast iron
***) DN 40: grey cast iron, hard chrome plated

T-bore



For handles refer to "Attachments, accessories"
Actuators and custom orders on request
All dimensions subject to change without notice
Dimensions in mm
Weight in kg
Pressure in bar

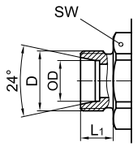
Double L-bore



Bore:	T	T	Double-L	Double-L
Cycling:	90°	90°	90°	90°
Body**:	steel, black oxide	steel, black oxide	steel, black oxide	steel, black oxide
Trunnion ball***:	steel, hard chrome plated	steel, hard chrome plated	steel, hard chrome plated	steel, hard chrome plated
Ball seals:	POM	PTFE	POM	PTFE
Stem seals:	NBR	FKM	NBR	FKM

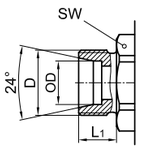
Connection

For cut (clamp) ring tube fitting DIN 2353 light series ISO 8434-1



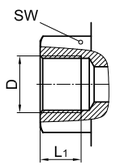
DN	Thread D	OD	L	L1	L2	B	H	H1	H2	D1	SW	SW1	Handle code	Weight	DN	PN	Article no.	PN	Article no.	PN	Article no.	PN	Article no.
4	M 12 x 1.5	6	100	10	55	70	40	20.0	44.5	6.7	19	12	7	1.6	4	500	203001	100	203026	500	203051	100	203076
6	M 14 x 1.5	8	100	10	55	70	40	20.0	44.5	6.7	19	12	7	1.6	6	500	203002	100	203027	500	203052	100	203077
8	M 16 x 1.5	10	109	11	65	80	50	25.0	54.5	6.7	24	14	8	2.5	8	500	203003	100	203028	500	203053	100	203078
10	M 18 x 1.5	12	109	11	65	80	50	25.0	54.5	6.7	24	14	8	2.5	10	500	203004	100	203029	500	203054	100	203079
12	M 22 x 1.5	15	130	12	80	100	55	27.5	59.5	8.4	30	14	8	4.2	12	500	203005	100	203030	500	203055	100	203080
16/12	M 26 x 1.5	18	136	12	80	100	55	27.5	59.5	8.4	30	14	8	4.3	16/12	500	203006	100	203031	500	203056	100	203081
20	M 30 x 1.5	22	138	14	85	100	75	40.0	79.5	8.4	41	19	10	5.7	20	315	203911	100	203912	315	203913	100	203914
25	M 36 x 2	28	157	14	105	120	81	43.5	85.5	10.5	50	19	10	8.6	25	315	203931	100	203932	315	203933	100	203934
32	M 45 x 2	35	210	16	106	Ø180	100	50.0	104.5	10.5	60	19	10	17.1	32	315*	203253	100	203278	315*	203303	100	203328
40	M 52 x 2	42	256	16	150	190	116	61.0	120.5	14.5	75	19	10	20.8	40	100	204204	100	204219	100	204234	100	204249

For cut (clamp) ring tube fitting DIN 2353 heavy series ISO 8434-1



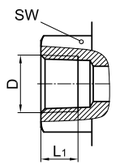
DN	Thread D	OD	L	L1	L2	B	H	H1	H2	D1	SW	SW1	Handle code	Weight	DN	PN	Article no.	PN	Article no.	PN	Article no.	PN	Article no.
4	M 16 x 1.5	8	106	12	55	70	40	20.0	44.5	6.7	19	12	7	1.6	4	500	203007	100	203032	500	203057	100	203082
6	M 18 x 1.5	10	106	12	55	70	40	20.0	44.5	6.7	19	12	7	1.6	6	500	203008	100	203033	500	203058	100	203083
8	M 20 x 1.5	12	111	12	65	80	50	25.0	54.5	6.7	24	14	8	2.5	8	500	203009	100	203034	500	203059	100	203084
10	M 22 x 1.5	14	115	14	65	80	50	25.0	54.5	6.7	24	14	8	2.5	10	500	203010	100	203035	500	203060	100	203085
12	M 24 x 1.5	16	134	14	80	100	55	27.5	59.5	8.4	30	14	8	4.2	12	500	203011	100	203036	500	203061	100	203086
16/12	M 30 x 2	20	144	16	80	100	55	27.5	59.5	8.4	36	14	8	4.3	16/12	500	203012	100	203037	500	203062	100	203087
20	M 36 x 2	25	146	18	85	100	75	40.0	79.5	8.4	41	19	10	5.8	20	315	203915	100	203916	315	203917	100	203918
25	M 42 x 2	30	169	20	105	120	81	43.5	85.5	10.5	50	19	10	8.7	25	315	203935	100	203936	315	203937	100	203938
32	M 52 x 2	38	222	22	106	Ø180	100	50.0	104.5	10.5	60	19	10	17.4	32	315*	203257	100	203282	315*	203307	100	203332

BSP-female thread DIN EN ISO 228-1



DN	Thread D	OD	L	L1	L2	B	H	H1	H2	D1	SW	SW1	Handle code	Weight	DN	PN	Article no.	PN	Article no.	PN	Article no.	PN	Article no.
4	G 1/8	-	102	12	55	70	40	20.0	44.5	6.7	19	12	7	1.6	4	500	203013	100	203038	500	203063	100	203088
6	G 1/4	-	102	12	55	70	40	20.0	44.5	6.7	19	12	7	1.6	6	500	203014	100	203039	500	203064	100	203089
10	G 3/8	-	107	14	65	80	50	25.0	54.5	6.7	24	14	8	2.5	10	500	203015	100	203040	500	203065	100	203090
12	G 1/2	-	129	15	80	100	55	27.5	59.5	8.4	30	14	8	4.2	12	500	203016	100	203041	500	203066	100	203091
16/12	G 5/8	-	146	18	80	100	55	27.5	59.5	8.4	36	14	8	4.3	16/12	500	203017	100	203042	500	203067	100	203092
20	G 3/4	-	132	18	85	100	75	40.0	79.5	8.4	41	19	10	5.8	20	315	203919	100	203920	315	203921	100	203922
25	G 1	-	162	20	105	120	81	43.5	85.5	10.5	50	19	10	9.0	25	315	203939	100	203940	315	203941	100	203942
32	G 1¼	-	188	20	106	Ø180	100	50.0	104.5	10.5	60	19	10	16.6	32	315*	203260	100	203285	315*	203310	100	203335
40	G 1½	-	224	25	150	190	116	61.0	120.5	14.5	75	19	10	20.3	40	100	204211	100	204226	100	204241	100	204256

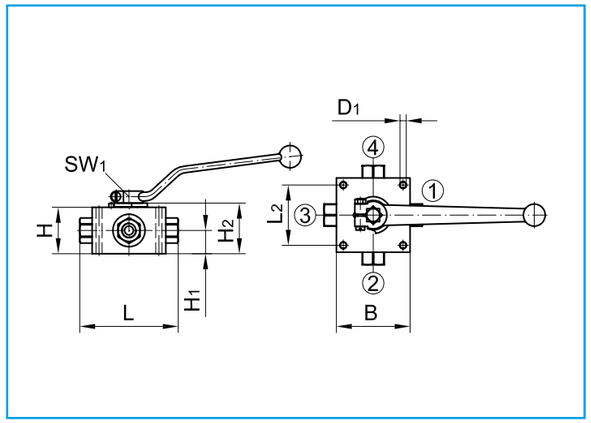
NPT-female thread ANSI/ASME B1.20.1-1983



DN	Thread D	OD	L	L1	L2	B	H	H1	H2	D1	SW	SW1	Handle code	Weight	DN	PN	Article no.	PN	Article no.	PN	Article no.	PN	Article no.
4	1/8 - 27 NPT	-	102	6.9	55	70	40	20.0	44.5	6.7	19	12	7	1.6	4	500	203018	100	203043	500	203068	100	203093
6	1/4 - 18 NPT	-	102	10.0	55	70	40	20.0	44.5	6.7	19	12	7	1.6	6	500	203019	100	203044	500	203069	100	203094
10	3/8 - 18 NPT	-	107	10.3	65	80	50	25.0	54.5	6.7	24	14	8	2.5	10	500	203020	100	203045	500	203070	100	203095
12	1/2 - 14 NPT	-	129	13.6	80	100	55	27.5	59.5	8.4	30	14	8	4.2	12	500	203021	100	203046	500	203071	100	203096
20	3/4 - 14 NPT	-	132	14.1	85	100	75	40.0	79.5	8.4	41	19	10	5.9	20	315	203923	100	203924	315	203925	100	203926
25	1 - 11½ NPT	-	162	16.8	105	120	81	43.5	85.5	10.5	50	19	10	9.0	25	315	203943	100	203944	315	203945	100	203946
32	1¼ - 11½ NPT	-	188	17.3	106	Ø180	100	50.0	104.5	10.5	60	19	10	16.6	32	315*	203264	100	203289	315*	203314	100	203339
40	1½ - 11½ NPT	-	224	17.3	150	190	116	61.0	120.5	14.5	75	19	10	20.3	40	100	204215	100	204230	100	204245	100	204260

Multi-way ball valves with trunnion ball

4-way · stainless steel · threaded connector · DN 4 - DN 32



Handle included in delivery

For handles refer to "Attachments, accessories"

For more porting patterns refer to "Standard- and special porting patterns".

Stainless steel (material no. 1.4571 - or other stainless steels)

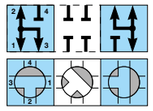
Also available with most other connections

Actuators and custom orders on request

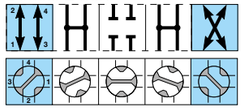
All dimensions subject to change without notice

Dimensions in mm | Weight in kg | Pressure in bar

T-bore

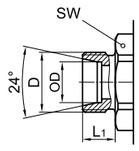
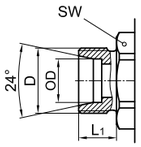
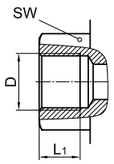
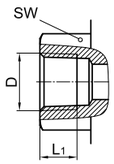


Double L-bore



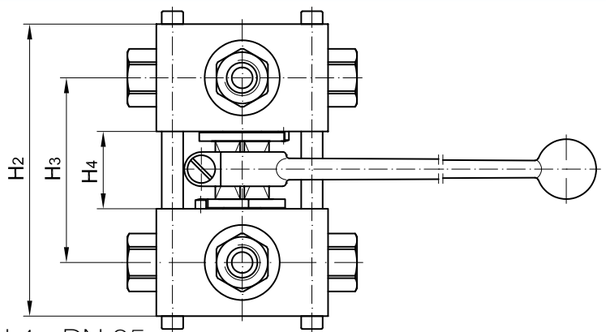
(reduced bore)

Bore:	T	T	Double-L	Double-L
Cycling:	90°	90°	90°	90°
Body:	stainless steel	stainless steel	stainless steel	stainless steel
Trunnion ball:	stainless steel	stainless steel	stainless steel	stainless steel
Ball seals:	PTFE	PEEK	PTFE	PEEK
Stem seals:	FKM	FKM	FKM	FKM

Connection	DN	Thread D	OD	L	L1	L2	B	H	H1	H2	D1	SW	SW1	Handle code	Weight	DN	PN	Article no.	PN	Article no.	PN	Article no.	PN	Article no.
For cut (clamp) ring tube fitting DIN 2353 light series ISO 8434-1 	4	M 12 x 1.5	6	100	10	55	70	40	20.0	44.5	6.7	19	12	7	1.6	4	100	203501	500	203650	100	203551	500	203685
	6	M 14 x 1.5	8	100	10	55	70	40	20.0	44.5	6.7	19	12	7	1.6	6	100	203502	500	203651	100	203552	500	203686
	8	M 16 x 1.5	10	109	11	65	80	50	25.0	54.5	6.7	24	14	8	2.5	8	100	203503	500	203652	100	203553	500	203687
	10	M 18 x 1.5	12	109	11	65	80	50	25.0	54.5	6.7	24	14	8	2.5	10	100	203504	500	203653	100	203554	500	203688
	12	M 22 x 1.5	15	130	12	80	100	55	27.5	59.5	8.4	30	14	8	4.2	12	100	203505	500	203654	100	203555	500	203689
	16/12	M 26 x 1.5	18	136	12	80	100	55	27.5	59.5	8.4	30	14	8	4.3	16/12	100	203506	500	203655	100	203556	500	203690
	20	M 30 x 2	22	138	14	85	100	75	40.0	79.5	8.4	41	19	10	5.7	20	100	203751	315	203656	100	203801	315	203691
	25	M 36 x 2	28	157	14	105	120	81	43.5	85.5	10.5	50	19	10	8.6	25	100	203752	315	203657	100	203802	315	203692
	32	M 45 x 2	35	210	16	106	Ø180	100	50.0	104.5	10.5	60	19	10	17.1	32	100	203753	315*	203658	100	203803	315*	203693
For cut (clamp) ring tube fitting DIN 2353 heavy series ISO 8434-1 	4	M 16 x 1.5	8	106	12	55	70	40	20.0	44.5	6.7	19	12	7	1.6	4	100	203507	500	203659	100	203557	500	203694
	6	M 18 x 1.5	10	106	12	55	70	40	20.0	44.5	6.7	19	12	7	1.6	6	100	203508	500	203660	100	203558	500	203695
	8	M 20 x 1.5	12	111	12	65	80	50	25.0	54.5	6.7	24	14	8	2.5	8	100	203509	500	203661	100	203559	500	203696
	10	M 22 x 1.5	14	115	14	65	80	50	25.0	54.5	6.7	24	14	8	2.5	10	100	203510	500	203662	100	203560	500	203697
	12	M 24 x 1.5	16	134	14	80	100	55	27.5	59.5	8.4	30	14	8	4.2	12	100	203511	500	203663	100	203561	500	203698
	16/12	M 30 x 2	20	144	16	80	100	55	27.5	59.5	8.4	36	14	8	4.3	16/12	100	203512	500	203664	100	203562	500	203699
	20	M 36 x 2	25	146	18	85	100	75	40.0	79.5	8.4	41	19	10	5.8	20	100	203755	315	203665	100	203805	315	203700
	25	M 42 x 2	30	169	20	105	120	81	43.5	85.5	10.5	50	19	10	8.7	25	100	203756	315	203666	100	203806	315	203701
	32	M 52 x 2	38	222	22	106	Ø180	100	50.0	104.5	10.5	60	19	10	17.4	32	100	203757	315*	203667	100	203807	315*	203702
BSP-female thread DIN EN ISO 228-1 	4	G 1/8	-	102	12	55	70	40	20.0	44.5	6.7	19	12	7	1.6	4	100	203513	500	203668	100	203563	500	203703
	6	G 1/4	-	102	12	55	70	40	20.0	44.5	6.7	19	12	7	1.6	6	100	203514	500	203669	100	203564	500	203704
	10	G 3/8	-	107	14	65	80	50	25.0	54.5	6.7	24	14	8	2.5	10	100	203515	500	203670	100	203565	500	203705
	12	G 1/2	-	129	15	80	100	55	27.5	59.5	8.4	30	14	8	4.2	12	100	203516	500	203671	100	203566	500	203706
	16/12	G 5/8	-	146	18	80	100	55	27.5	59.5	8.4	36	14	8	4.3	16/12	100	203517	500	203672	100	203567	500	203707
	20	G 3/4	-	132	18	85	100	75	40.0	79.5	8.4	41	19	10	5.8	20	100	203758	315	203673	100	203808	315	203708
	25	G 1	-	162	20	105	120	81	43.5	85.5	10.5	50	19	10	9.0	25	100	203759	315	203674	100	203809	315	203709
	32	G 1¼	-	188	20	106	Ø180	100	50.0	104.5	10.5	60	19	10	16.6	32	100	203760	315*	203675	100	203810	315*	203710
NPT-female thread ANSI/ASME B1.20.1-1983 	4	1/8 - 27 NPT	-	102	6.9	55	70	40	20.0	44.5	6.7	19	19	7	1.6	4	100	203518	500	203676	100	203568	500	203711
	6	1/4 - 18 NPT	-	102	10.0	55	70	40	20.0	44.5	6.7	19	19	7	1.6	6	100	203519	500	203677	100	203569	500	203712
	10	3/8 - 18 NPT	-	107	10.3	65	80	50	25.0	54.5	6.7	24	24	8	2.5	10	100	203520	500	203678	100	203570	500	203713
	12	1/2 - 14 NPT	-	129	13.6	80	100	55	27.5	59.5	8.4	30	30	8	4.2	12	100	203521	500	203679	100	203571	500	203714
	20	3/4 - 14 NPT	-	132	14.1	85	100	75	40.0	79.5	8.4	41	41	10	5.9	20	100	203762	315	203680	100	203812	315	203715
	25	1 - 11½ NPT	-	162	16.8	105	120	81	43.5	85.5	10.5	50	50	10	9.0	25	100	203763	315	203681	100	203813	315	203716
	32	1¼ - 11½ NPT	-	188	17.3	106	Ø180	100	50.0	104.5	10.5	60	60	10	16.6	32	100	203764	315*	203682	100	203814	315*	203717

Multi-way ball valves with trunnion ball

Steel or stainless steel · as combination · assembly kits



DN 4 - DN 25

Handle included in delivery

For dimensions and article-numbers for ball valve bodies refer to the respective chapter.

Custom orders on request

All dimensions subject to change without notice

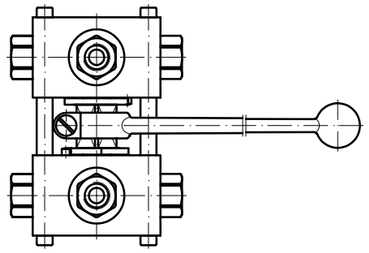
Dimensions in mm

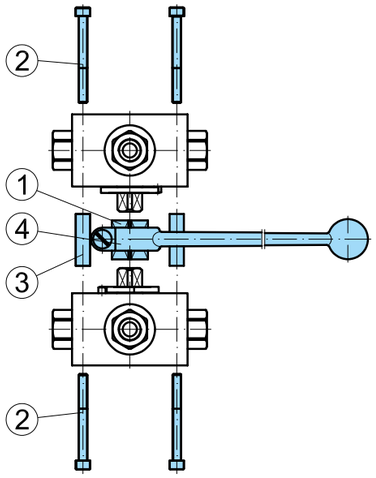
Also available completely assembled

Connection	DN	H2	H3	H4	Handle code	Article no.
ALL	4	114	74	34	44	203890
	6	114	74	34	44	203890
	8	136	86	36	45	203891
	10	136	86	36	45	203891
	12	146	91	36	45	203892
	16/12	146	91	36	45	203892
	20	195	115	45	47	203893
	25	207	207	45	47	203894

Combination consisting of:

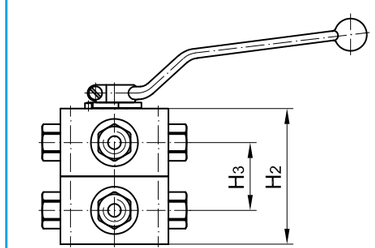
two multi-way ball valves (without handle) and one assembly kit



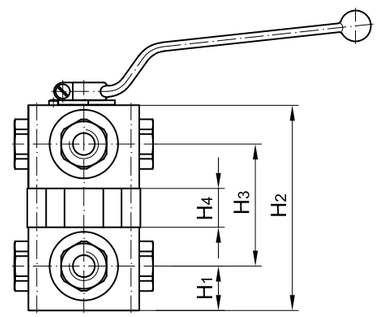


Assembly kit consisting of:

① Square pre-load coupling
② Hex-head bolt (6 pc.)
③ Spacer sleeves (3 pc.)
④ Handle



DN 4 - DN 16/12



DN 20 + DN 25

Handle included in delivery

For dimensions and article-numbers for ball valve bodies refer to the respective chapter.

Custom orders on request

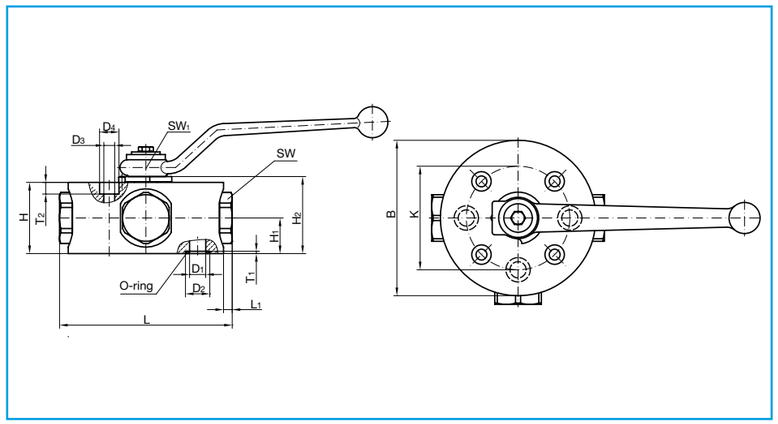
All dimensions subject to change without notice

Dimensions in mm

Connection	DN	H1	H2	H3	H4	Handle code
ALL	4	-	80	40	-	44
	6	-	80	40	-	44
	8	-	100	50	-	45
	10	-	100	50	-	45
	12	-	110	55	-	45
	16/12	-	110	55	-	45
	20	40.0	185	110	35	47
	25	43.5	197	116	35	47

Multi-way ball valves with trunnion ball

3-way · steel · manifold mounting · DN 6 - DN 32

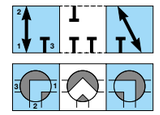


The body of the 3-way-version is identical with that of the 4-way-version.

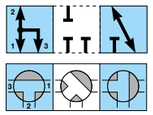
The unused port is then to be sealed against the hydraulic manifold with an o-ring.

Handle and o-rings included in delivery
For handles refer to "Attachments, accessories"
For more porting patterns refer to "Standard- and special porting patterns".
*) can be actuated up to 100 bar manually
Actuators and custom orders on request
All dimensions subject to change without notice
Dimensions in mm | Weight in kg | Pressure in bar

L-bore



T-bore



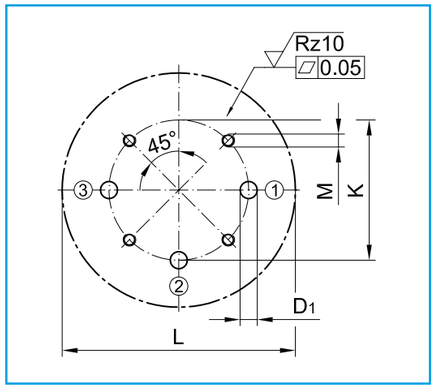
Bore:	L	T
Cycling:	90°	90°
Body:	steel, black oxide	steel, black oxide
Trunnion ball:	steel, hard chrome plated	steel, hard chrome plated
Body seals:	NBR	NBR
Ball seals:	POM	POM
Stem seals:	NBR	NBR

Connection	DN	L	L1	B	H	H1	H2	K	D1	D2	D3	D4	T1	T2	DN	SW	SW1	Handle code	Weight	For cylinder head screws DIN EN ISO 4762 (DIN 912)	PN	Article no.	PN	Article no.
Body-flange with o-ring-seal	6	95	2.5	Ø90	40.5	20.5	45.0	55	6.0	12.5	6.4	11	1.8	6.8	6	24	12	7	1.7	M 6	400	206501	400	206561
	10	108	4.0	Ø100	50.0	25.0	54.5	65	8.0	15.0	6.4	11	1.8	6.8	10	30	14	8	2.7	M 6	400	206502	400	206562
	12	133	6.5	Ø120	55.0	27.5	59.5	80	12.5	18.8	8.4	15	1.8	9.0	12	36	14	8	4.6	M 8	400	206503	400	206563
	20	190	5.0	Ø180	75.0	40.0	79.5	115	19.0	30.0	17.0	26	3.0	22.0	20	50	19	10	13.0	M 16	315	206504	315	206564
	25	210	5.0	Ø200	81.0	43.5	85.5	135	23.5	35.0	21.0	33	3.0	21.5	25	60	19	10	16.6	M 20	315	206505	315	206565
	32	300	5.0	Ø290	100.0	50.0	104.5	200	32.0	40.0	25.0	40	3.0	26.5	32	70	19	10	41.5	M 24	315*	206506	315*	206566

General tolerances
DIN ISO 2768
Surfaces
DIN EN ISO 4287

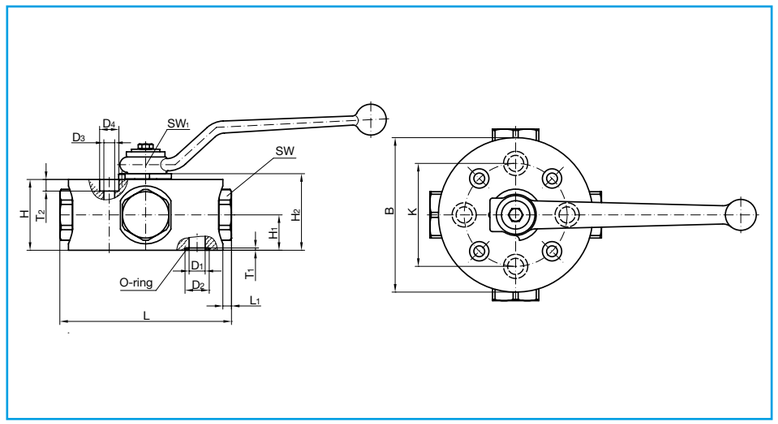
DN	D1	K	L	M	O-ring
6	6.0	55	95	M 6	8.0 x 2.5
10	8.0	65	108	M 6	10.0 x 2.5
12	12.5	80	133	M 8	14.0 x 2.5
20	19.0	115	190	M 16	23.5 x 3.5
25	23.5	135	210	M 20	28.1 x 3.5
32	32.0	200	300	M 24	33.5 x 3.5

Drilling pattern
DN 6 - DN 32



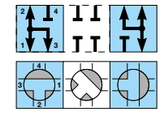
Multi-way ball valves with trunnion ball

4-way · steel · manifold mounting · DN 6 - DN 32

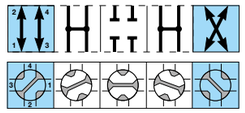


Handle and o-rings included in delivery
For handles refer to "Attachments, accessories"
For more porting patterns refer to "Standard- and special porting patterns".
*) can be actuated up to 100 bar manually
Actuators and custom orders on request
All dimensions subject to change without notice
Dimensions in mm | Weight in kg | Pressure in bar

T-bore



Double L-bore

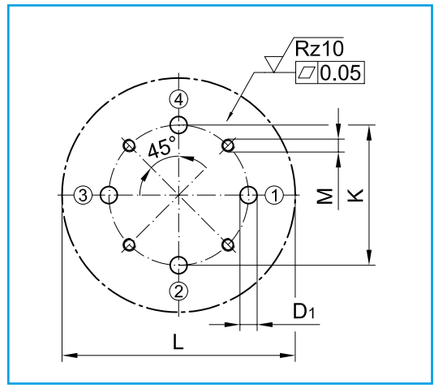


(reduced bore)

Bore:	T	Double-L
Cycling:	90°	90°
Body:	steel, black oxide	steel, black oxide
Trunnion ball:	steel, hard chrome plated	steel, hard chrome plated
Body seals:	NBR	NBR
Ball seals:	POM	POM
Stem seals:	NBR	NBR

Connection	DN	L	L1	B	H	H1	H2	K	D1	D2	D3	D4	T1	T2	DN	SW	SW1	Handle code	Weight	For cylinder head screws DIN EN ISO 4762 (DIN 912)	PN	Article no.	PN	Article no.
Body-flange with o-ring-seal	6	95	2.5	Ø90	40.5	20.5	45.0	55	6.0	12.5	6.4	11	1.8	6.8	6	24	12	7	1.7	M 6	400	206521	400	206541
	10	108	4.0	Ø100	50.0	25.0	54.5	65	8.0	15.0	6.4	11	1.8	6.8	10	30	14	8	2.7	M 6	400	206522	400	206542
	12	133	6.5	Ø120	55.0	27.5	59.5	80	12.5	18.8	8.4	15	1.8	9.0	12	36	14	8	4.6	M 8	400	206523	400	206543
	20	190	5.0	Ø180	75.0	40.0	79.5	115	19.0	30.0	17.0	26	3.0	22.0	20	50	19	10	13.0	M 16	315	206524	315	206544
	25	210	5.0	Ø200	81.0	43.5	85.5	135	23.5	35.0	21.0	33	3.0	21.5	25	60	19	10	16.6	M 20	315	206525	315	206545
	32	300	5.0	Ø290	100.0	50.0	104.5	200	32.0	40.0	25.0	40	3.0	26.5	32	70	19	10	41.5	M 24	315*	206526	315*	206546

General tolerances
DIN ISO 2768
Surfaces
DIN EN ISO 4287

DN	D1	K	L	M	O-ring
6	6.0	55	95	M 6	8.0 x 2.5
10	8.0	65	108	M 6	10.0 x 2.5
12	12.5	80	133	M 8	14.0 x 2.5
20	19.0	115	190	M 16	23.5 x 3.5
25	23.5	135	210	M 20	28.1 x 3.5
32	32.0	200	300	M 24	33.5 x 3.5

Drilling pattern
DN 6 - DN 32