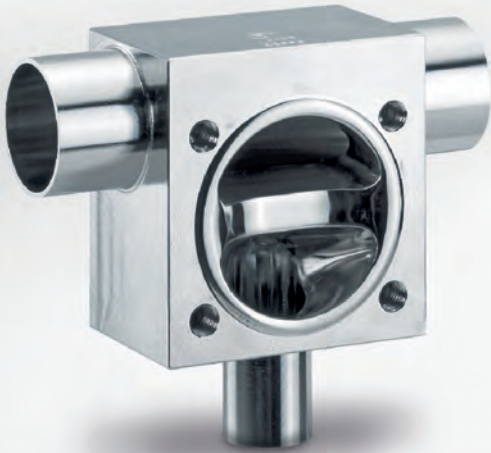


GEMÜ



2/2-Way and T Valve Bodies in Stainless Steel



Leading the world in pharmaceutical and biotechnology industry sterilisation processes

GEMÜ is one of the leading manufacturers of valves, measurement and control systems and is the world market leader for sterile valve applications in the pharmaceutical and biotechnology industries. This position is based on GEMÜ's comprehensive investments in application-oriented research & development, amounting to more than 5% of the company's turnover.

Customized solutions for your project business

GEMÜ provides the optimal solution from a single source. As a system supplier of isolation, actuator and control technology, we can respond very flexibly to your individual project-specific needs.

Our worldwide sales network provides fast reaction times, customer oriented service and a committed project management team.

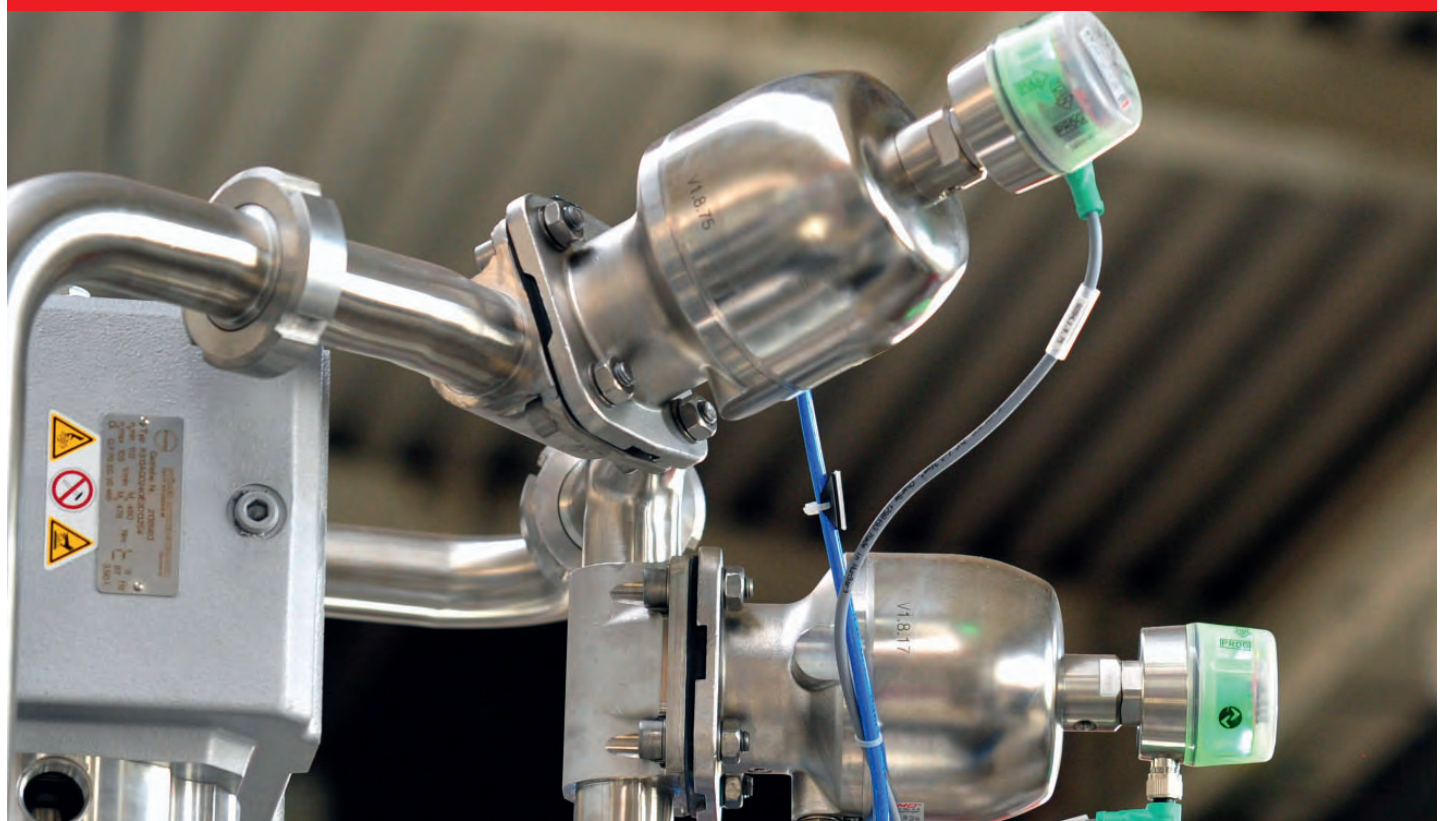


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2/2-way valve bodies

Description of use

2/2-way straight through valve bodies are the body versions used most often in industrial applications. Butt weld spigots and clamp connections are the most common connections in sensitive sterile areas.

Whereas threaded connections, aseptic flanges and threaded sockets only play a secondary role here.

Features

- Standard valve body material 1.4435 in investment cast, forged or block material design. 1.4539 and other materials on request
- Standard connections are butt weld spigots, clamps and sterile connections, other connections on request
- Internal surface contour mechanically polished and/or electropolished down to Ra 0.25 µm
- Compact design, GMP-compliant design
- Available with manual, pneumatic or motorized operators (modular system)



2/2-way valve bodies

Material selection

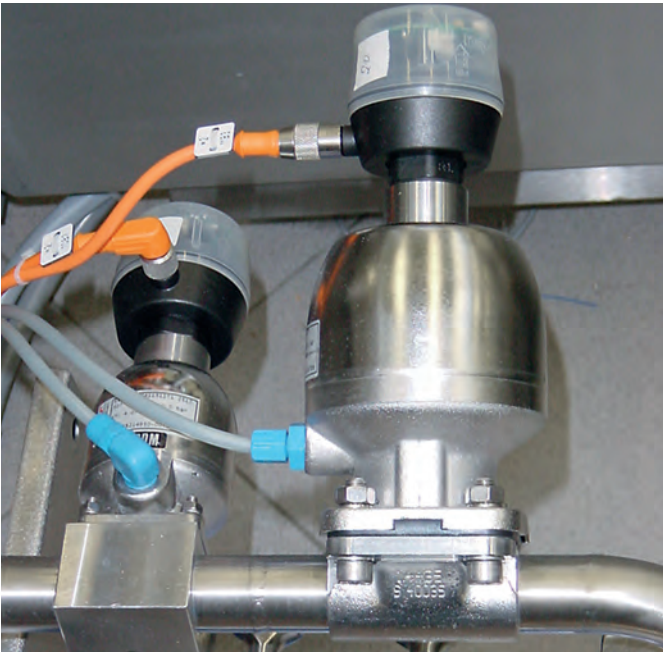


Investment casting		
Material code	32	1.4435 (BN2) Fe<0,5%
	34	1.4435 (ASTM A 351 CF3M)*

* Material equivalency 316 L

Forged body		
Material code	40	1.4435 (F316L)
	42	1.4435 (BN2) Fe<0,5%
	F4	1.4539 (F904L)

Block material		
Material code	41	1.4435 (316L/F316L)
	43	1.4435 (BN2) Fe<0,5%



Other valve body materials	Code
1.4539, block material	44
3.7035, Titan	A1
2.4602, block material Hastelloy C 22 (NiCr21Mo14W)	A3

Special materials on request

2/2-way valve bodies

Grades of surface finish

Modern, ergonomically shaped workstations and trained polishing staff give us the ability to provide high quality surface finishes. Depending on the required application, surface finishes from Ra 0.8 µm down to 0.25 µm can be achieved by polishing, electro polishing or a special process, we call "elysieren".

Mechanical hand polishing is carried out at our works to ensure our high quality standard.

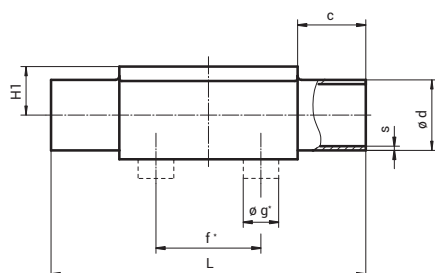
Valve body surface finish, internal contour			
	Forged body Code 40, 42, F4 Block material Code 41, 43	Investment casting Code 32, 34	Code
Ra ≤ 0,8 µm (30 µinch) for media wetted surfaces, mechanically polished internal	X	X	1502
Ra ≤ 0,8 µm (30 µinch) for media wetted surfaces, electropolished internal/external	X	-	1503
Ra ≤ 0,6 µm (25 µinch) for media wetted surfaces, mechanically polished internal	X ¹	X ¹	1507
Ra ≤ 0,6 µm (25 µinch) for media wetted surfaces, electropolished internal/external	X ¹	-	1508
Ra ≤ 0,25 µm (10 µinch) for media wetted surfaces, electropolished internal/external	X ¹	-	1516
Ra ≤ 0,25 µm (10 µinch) for media wetted surfaces, mechanically polished internal	X ¹	-	1527
Ra ≤ 0,4 µm (15 µinch) for media wetted surfaces, mechanically polished internal	X ¹	-	1536
Ra ≤ 0,4 µm (15 µinch) for media wetted surfaces, electropolished internal/external	X ¹	-	1537
Ra ≤ 0,5 µm (20 µinch) for media wetted surfaces, mechanically polished internal	X ¹	-	1927
Ra ≤ 0,5 µm (20 µinch) for media wetted surfaces, electropolished internal/external	X ¹	-	1928
Ra ≤ 0,4 µm (15 µinch) for media wetted surfaces, electropolished internal/external	X ¹	-	1929

Ra acc. to DIN 4768; at defined reference points. ¹ For pipe inside diameter < 6 mm, the surface inside the spigot is Ra ≤ 0.8 µm.

	GEMÜ	DIN 11866		ASME BPE (2014)		
Code	Ra _{max} µm / µinch	Hygiene class	Ra µm	Designation	Ra _{max} µinch	Ra _{max} µm - converted
1502	≤ 0.8 / 30	H3	≤ 0.8	SF3	30	0.76
1503	≤ 0.8 / 30	HE3	≤ 0.8	-	-	-
1507	≤ 0.6 / 25	-	-	SF2	25	0.64
1508	≤ 0.6 / 25	-	-	SF6	25	0.64
1927	≤ 0.5 / 20	-	-	SF1	20	0.51
1928	≤ 0.5 / 20	-	-	SF5	20	0.51
1929	≤ 0.4 / 15	-	-	SF4	15	0.38
1536	≤ 0.4 / 15	H4	≤ 0.4	-	-	-
1537	≤ 0.4 / 15	HE4	≤ 0.4	-	-	-
1527	≤ 0.25 / 10	H5	≤ 0.25	-	-	-
1516	≤ 0.25 / 10	HE5	≤ 0.25	-	-	-

2/2-way valve bodies

Butt weld connections

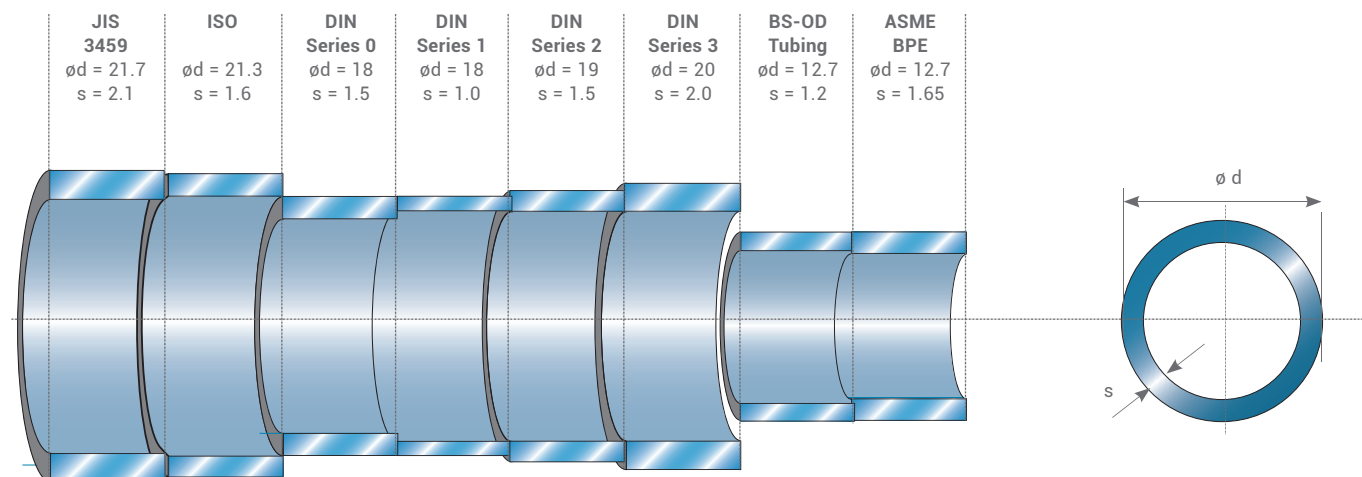


* only for investment cast body
The angles of rotation for installation can be seen from the connection drawings on the following pages.

Dimensions in mm			DIN Series 0 /		DIN 11850 Series 1 / Series 2 /				DIN 11866 Series A / Series B /				EN ISO 1127		JIS-G 3447		JIS-G 3459		SMS 3008		BS 4825		ASME BPE		ANSI/ ASME B36.19M 10s		ANSI/ ASME B36.19M 40s			
			Code 0		Code 16		Code 17		Code 18		Code 1A		Code 1B		Code 60		Code 35		Code 36		Code 37		Code 55		Code 59		Code 63		Code 65	
			MG	DN	NPS	ød	s	ød	s	ød	s	ød	s	ød	s	ød	s	ød	s	ød	s	ød	s	ød	s	ød	s	ød	s	ød
8	4	-	6	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	6	-	8	1.0	-	-	-	-	-	-	8	1.0	10.2	1.6	10.2	1.6	-	-	10.5	1.20	-	-	-	-	-	-	10.3	1.24	10.3	1.73
	8	¼"	10	1.0	-	-	-	-	-	-	10	1.0	13.5	1.6	13.5	1.6	-	-	13.8	1.65	-	-	6.35	1.2	6.35	0.89	13.7	1.65	13.7	2.24
	10	⅜"	-	-	12	1.0	13	1.5	14	2.0	13	1.5	-	-	-	-	-	-	-	-	-	-	9.53	1.2	9.53	0.89	-	-	-	-
	15	½"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.70	1.2	12.70	1.65	-	-	-	-
10	10	⅝"	-	-	12	1.0	13	1.5	14	2.0	13	1.5	17.2	1.6	17.2	1.6	-	-	17.3	1.65	-	-	9.53	1.2	9.53	0.89	17.1	1.65	17.1	2.31
	15	½"	18	1.5	18	1.0	19	1.5	20	2.0	19	1.5	21.3	1.6	21.3	1.6	-	-	21.7	2.10	-	-	12.70	1.2	12.70	1.65	21.3	2.11	21.3	2.77
	20	¾"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.05	1.2	19.05	1.65	-	-	-	-
25	15	½"	18	1.5	18	1.0	19	1.5	20	2.0	19	1.5	21.3	1.6	21.3	1.6	-	-	21.7	2.10	-	-	-	-	-	-	21.3	2.11	21.3	2.77
	20	¾"	22	1.5	22	1.0	23	1.5	24	2.0	23	1.5	26.9	1.6	26.9	1.6	-	-	27.2	2.10	-	-	19.05	1.2	19.05	1.65	26.7	2.11	26.7	2.87
	25	1"	28	1.5	28	1.0	29	1.5	30	2.0	29	1.5	33.7	2.0	33.7	2.0	25.4	1.2	34.0	2.80	25.0	1.2	-	-	25.40	1.65	33.4	2.77	33.4	3.38
40	32	1 ¼"	34	1.5	34	1.0	35	1.5	36	2.0	35	1.5	42.4	2.0	42.4	2.0	31.8	1.2	42.7	2.80	33.7	1.2	-	-	-	-	42.2	2.77	42.2	3.56
	40	1 ½"	40	1.5	40	1.0	41	1.5	42	2.0	41	1.5	48.3	2.0	48.3	2.0	38.1	1.2	48.6	2.80	38.0	1.2	-	-	38.10	1.65	48.3	2.77	48.3	3.68
50	50	2"	52	1.5	52	1.0	53	1.5	54	2.0	53	1.5	60.3	2.0	60.3	2.0	50.8	1.5	60.5	2.80	51.0	1.2	-	-	50.80	1.65	60.3	2.77	60.3	3.91
80	65	2 ½"	-	-	-	-	70	2.0	-	-	70	2.0	76.1	2.0	76.1	2.0	63.5	2.0	76.3	3.0	63.5	1.6	-	-	63.5	1.65	73.0	3.05	73.0	5.16
	80	3"	-	-	-	-	85	2.0	-	-	85	2.0	88.9	2.3	88.9	2.3	76.3	2.0	89.1	3.0	76.1	1.6	-	-	76.2	1.65	88.9	3.05	88.9	5.49
100	100	4"	-	-	-	-	104	2.0	-	-	104	2.0	114.3	2.3	114.3	2.3	101.6	2.0	114.3	3.0	101.6	2.0	-	-	101.6	2.11	114.3	3.05	114.3	6.02

MG = diaphragm size

The difference between tube specifications (Example DN 15)



2/2-way valve bodies

Selection of operators

Manually operated



Type	GEMÜ 9601	GEMÜ 9602	GEMÜ 9612	GEMÜ 9673	GEMÜ 9653	GEMÜ 9654
Material	Stainless steel, plastic handwheel, with optical position indicator and seal adjuster	Stainless steel, with optical position indicator and seal adjuster	Stainless steel, plastic handwheel, with optical position indicator and seal adjuster	Stainless steel, plastic handwheel, with optical position indicator and seal adjuster	Stainless steel, plastic handwheel, with optical position indicator, stroke limiter and seal adjuster, lockable, optional: electrical position indicator	Stainless steel, with optical position indicator, stroke limiter and seal adjuster, lockable, optional: electrical position indicator
Autoclavable	●	●	●	●	●	●
Operating temperature*	-10 to 150 °C	-10 to 150 °C	-10 to 150 °C	-10 to 150 °C	-10 to 150 °C	-10 to 150 °C
Operating pressure*	0 to 10 bar	0 to 10 bar	0 to 10 bar	0 to 10 bar	0 to 10 bar	0 to 10 bar
DN	4 to 15	4 to 15	10 to 20	15 to 50	10 to 100	4 to 100
Diaphragm size 8	●	●	-	-	-	●
Diaphragm size 10	-	-	●	-	●	●
Diaphragm size 25	-	-	-	●	●	●
Diaphragm size 40	-	-	-	●	●	●
Diaphragm size 50	-	-	-	●	●	●
Diaphragm size 80	-	-	-	-	●	●
Diaphragm size 100	-	-	-	-	●	●

* dependent on diaphragm material, see technical datasheet

Elastomer diaphragms

EPDM



PTFE diaphragms

PTFE/EPDM, PTFE/FPM



Pneumatically operated

							
GEMÜ 9605	GEMÜ 9625	GEMÜ 9687	GEMÜ 9650	GEMÜ 9650TL	GEMÜ 9651	GEMÜ 9658/9688	GEMÜ 9660
Plastic, with stainless steel distance piece, optical position indicator	Plastic, with stainless steel distance piece, optical position indicator	Plastic, with stainless steel distance piece, optical position indicator	Stainless steel, with optical position indicator, optionally autoclavable	Safety valve, stainless steel, mounting facility for proximity switches	Stainless steel, with integrated automation module	Two stage actuator, stainless steel	Filling valve, stainless steel with optical position indicator, stroke limiter and seal adjuster
-	-	-	● (DN 4 to 25)	-	-	-	-
-10 to 150 °C	-10 to 150 °C	-10 to 150 °C	-10 to 150 °C	-10 to 150 °C	-10 to 150 °C	-10 to 150 °C	-10 to 150 °C
0 to 8 bar	0 to 6 bar	0 to 10 bar	0 to 10 bar	0 to 8 bar	0 to 10 bar	0 to 10 bar	0 to 5 bar
4 to 15	10 to 20	10 to 100	4 to 100	4 to 25	4 to 25	10 to 50	4 to 25
●	-	-	●	●	●	●	●
-	●	●	●	●	●	●	●
-	-	●	●	●	●	●	●
-	-	●	●	-	-	●	-
-	-	●	●	-	-	●	-
-	-	●	●	-	-	-	-
-	-	●	●	-	-	-	-

Valve body versions



2/2-way body
investment casting
2/2-way version to all international
standard butt weld connections



2/2-way body
forged version
2/2-way version to all international standard
butt weld connections

Connections



Clamp
to all common standards



Aseptik-Clamp
to all common standards



Aseptik-Verschraubung
to all common standards



Aseptik-Flansch
to all common standards

Other versions and accessories available. See "Stainless Steel Diaphragm Valves" brochure.

2/2-way valve bodies

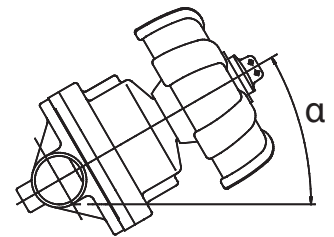
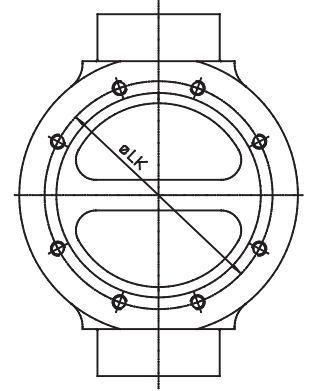
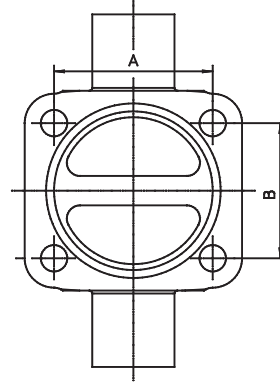
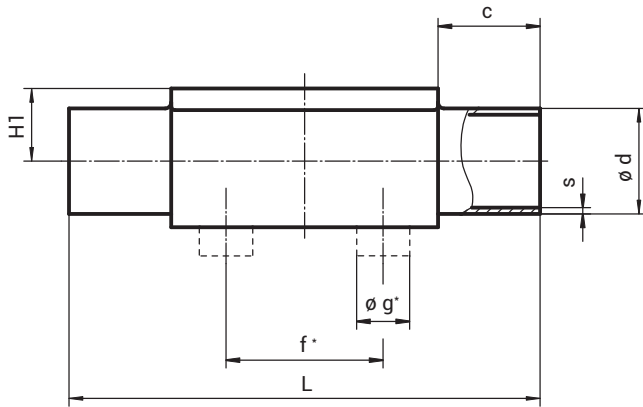
Selection of operators

Pneumatically operated			Motorized	
				
Type	GEMÜ 9615	GEMÜ 9695	GEMÜ 9618	GEMÜ 9698
Material	Plastic, with optical position indicator, only for 2/2-way valve bodies	Plastic, with optical position indicator, only for 2/2-way valve bodies	Plastic, with/without stainless steel distance piece, with optical position indicator	Plastic, with stainless steel distance piece, with optical position indicator and manual override
Autoclavable	-	-	-	-
Operating temperature*	-10 to 80 °C	-10 to 80 °C	0 to 130 °C (without distance piece 15 to 50 °C)	-10 to 150 °C
Operating pressure*	0 to 6 bar	0 to 10 bar	0 to 6 bar	0 to 6 bar
DN	10 to 20	15 to 50	4 to 15	15 to 50
Supply voltage	-	-	24 VAC, 120 VAC, 230 VAC, 50/60Hz	24 VAC, 120 VAC, 230 VAC, 50/60Hz
Diaphragm size 8	●	●	●	-
Diaphragm size 10	●	●	●	-
Diaphragm size 25	-	●	-	●
Diaphragm size 40	-	●	-	●
Diaphragm size 50	-	●	-	●
Diaphragm size 80	-	-	-	-
Diaphragm size 100	-	-	-	-

* dependent on diaphragm material

Butt weld spigots

for EN ISO 1127 pipes, code 60



Valve body material	Code
1.4435 (ASTM A 351 CF3M)*	34
1.4435 (F316L) forged body	40
1.4539 (F904L)	F4

* Material equivalency 316 L

EN ISO 1127, Code 60												Angle of rotation α	
			L	LS	H1*	H1**	f*	øg*	ød	s	A x B / ø LK	Valve body material Code 34 α°	Valve body material Code 40, F4 α°
MG	DN	NPS	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		
8	8	¼"	72	20	8.5		-	-	13.5	1.6	22 x 22	21	19
10	10	⅜"	108	25	12.5		30	13.5	17.2	1.6	39 x 44	20	16
	15	½"							21.3	1.6		12	7
25	15	½"	120	25	13	19	40	13.5	21.3	1.6	54 x 46	40	31
	20	¾"			16	19			26.9	1.6		29	24
	25	1"			19	19			33.7	2.0		19	17
40	32	1¼"	153	25	24	26	68	13.5	42.4	2.0	70 x 65	22	19
	40	1½"			26		75		48.3	2.0		16	14
50	50	2"	173	30	32	32	90	13.5	60.3	2.0	82 x 78	16	14
80	65	2½"	216	30	-	62	-	-	76.1	2.0	127 x 114	-	16
	80	3"	254		-		-	-	88.9	2.3		-	11
100	100	4"	305	30	-	76	-	-	114.3	2.3	ø 194	-	11

MG: Diaphragm size

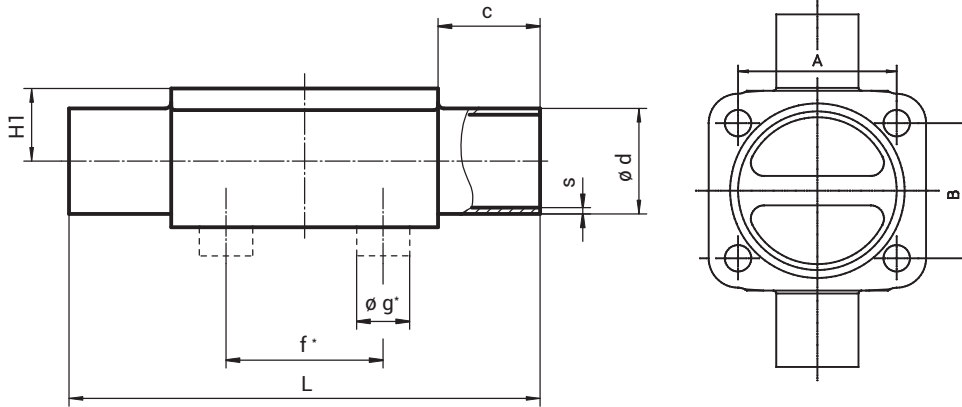
f*, øg*: only on investment cast body;

H1*: investment cast body, H1** forged body

The availability of the valve bodies depends on the valve body material and the nominal size. If a body is available, the angle of rotation α is indicated in the coloured columns. The angle of rotation is necessary for optimum draining of the body.

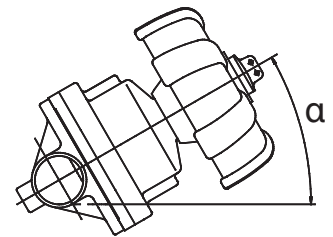
Butt weld spigots

for DIN pipes, code 0



Valve body material	Code
1.4435 (ASTM A 351 CF3M)*	34
1.4435 (F316L) forged body	40
1.4539 (F904L)	F4

* Material equivalency 316 L



DIN, Code 0												Angle of rotation α	
MG	DN	NPS	L [mm]	LS [mm]	H1* [mm]	H1** [mm]	f* [mm]	øg* [mm]	ød [mm]	s [mm]	A x B [mm]	Valve body material	
												Code 34 α°	Code 40, F4 α°
8	4	-	72	20	8.5		-	-	6	1	22 x 22	37	35
	6	-										32	30
	8	¼"										27	25
10	15	½"	108	25	12.5		30	13.5	18	1.5	39 x 44	18	14
25	15	½"	120	25	13	19	40	13.5	18	1.5	54 x 46	44	34
	20	¾"			16	19						35	30
	25	1"			19	19						25	23
40	32	1¼"	153	25	24	26	68	13.5	34	1.5	70 x 65	28	25
	40	1½"			26	26	75	13.5	40	1.5		22	20
50	50	2"	173	30		32	90	13.5	52	1.5	82 x 78	21	19

MG: Diaphragm size

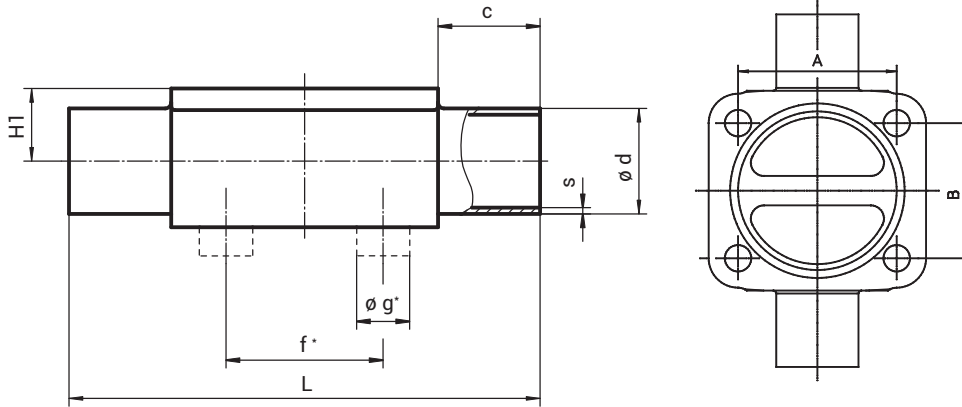
f*, øg*: only on investment cast body;

H1*: investment cast body, H1** forged body

The availability of the valve bodies depends on the valve body material and the nominal size. If a body is available, the angle of rotation α is indicated in the coloured columns. The angle of rotation is necessary for optimum draining of the body.

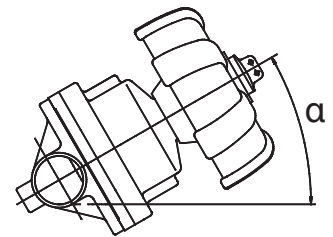
Butt weld spigots

for DIN 11850 pipes, series 1, code 16



Valve body material	Code
1.4435 (ASTM A 351 CF3M)*	34
1.4435 (F316L) forged body	40
1.4539 (F904L)	F4

* Material equivalency 316 L



DIN 11850 Series 1. Code 16												Angle of rotation α		
			L	LS	H1*	H1**	f*	øg*	ød	s	A x B	Valve body material		
MG	DN	NPS	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	α°	Code 34	Code 40. F4
8	10	⅜"	72	20	8.5		-	-	12	1.0	22 x 22	22		19
10	10	⅜"	108	25	12.5		30	13.5	12	1.0	39 x 44	28		24
	15	½"							18	1.0		17	12	
25	15	½"	120	25	13	19	40	13.5	18	1.0	54 x 46	43		33
	20	¾"			16	19			22	1.0		34	28	
	25	1"			19	19			28	1.0		24	21	
40	32	1¼"	153	25	24	26	68	13.5	34	1.0	70 x 65	28		25
	40	1½"			26	26	75	13.5	40	1.0		21	19	
50	50	2"	173	30	32		90	13.5	52	1.0	82 x 78	21		18

MG: Diaphragm size

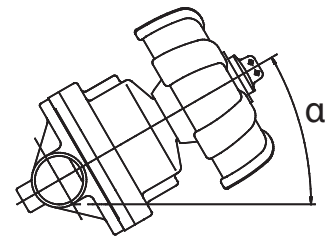
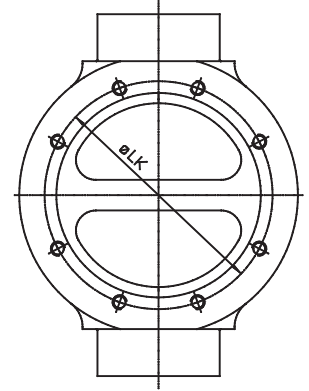
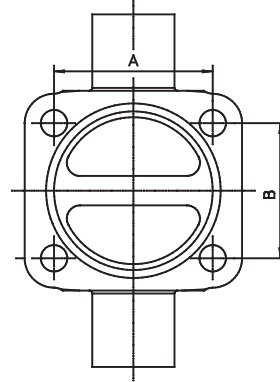
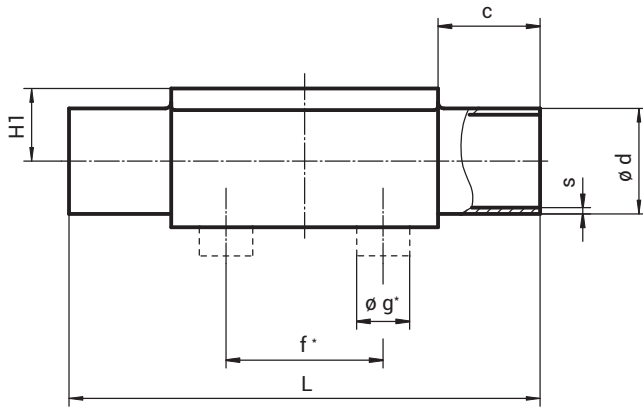
f*: øg*: only on investment cast body;

H1*: investment cast body. H1**: forged body

The availability of the valve bodies depends on the valve body material and the nominal size. If a body is available, the angle of rotation α is indicated in the coloured columns. The angle of rotation is necessary for optimum draining of the body.

Butt weld spigots

for DIN 11850 pipes, series 2, code 17; DIN 11866, series A, code 1A



Valve body material	Code
1.4435 (ASTM A 351 CF3M)*	34
1.4435 (F316L) forged body	40
1.4539 (F904L)	F4

* Material equivalency 316 L

DIN 11850 Series 2, Code 17; DIN 11866, Series A, Code 1A												Angle of rotation α		
			L	LS	H1*	H1**	f*	øg*	ød	s	A x B / ø LK	Valve body material		
MG	DN	NPS	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	α°	Code 34	Code 40, F4 α°
8	10	⅜"	72	20	8.5		-	-	13	1.5	22 x 22	22		19
10	10	⅜"	108	25	12.5		30	13.5	13	1.5	39 x 44	28		24
	15	½"							19	1.5		17	12	
25	15	½"	120	25	13	19	40	13.5	19	1.5	54 x 46	43		33
	20	¾"			16	19			23	1.5		34	28	
	25	1"			19	19			29	1.5		24	21	
40	32	1 ¼"	153	25	24	26	68	13.5	35	1.5	70 x 65	28		25
	40	1½"			26		75		41	1.5		21	19	
50	50	2"	173	30	32	32	90	13.5	53	1.5	82 x 78	21		18
80	65	2½"	216	30	-	62	-	-	70	2.0	127 x 114	-		18
	80	3"	254		-		-	-	85	2.0		-	12	
100	100	4"	305	30	-	76	-	-	104	2.0	ø 194	-		14

MG: Diaphragm size

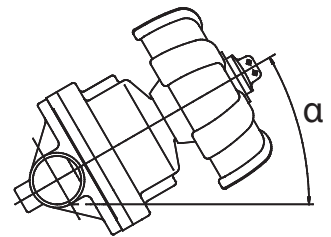
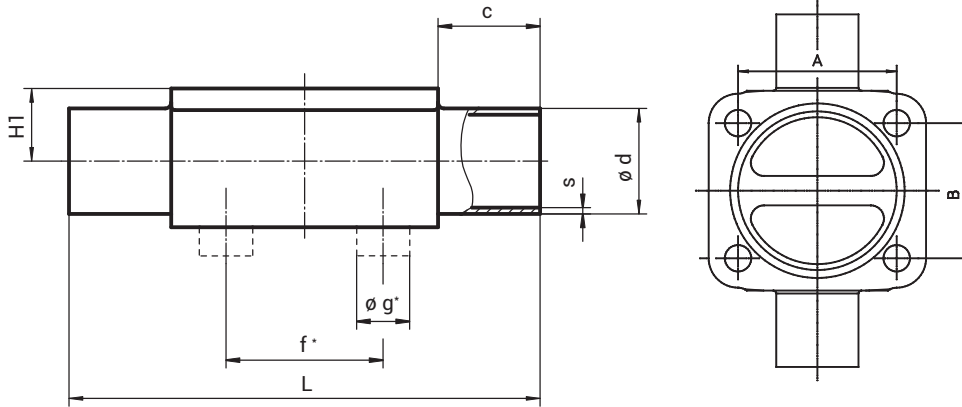
f*, øg*: only on investment cast body;

H1*: investment cast body, H1**: forged body

The availability of the valve bodies depends on the valve body material and the nominal size. If a body is available, the angle of rotation α is indicated in the coloured columns. The angle of rotation is necessary for optimum draining of the body.

Butt weld spigots

for DIN 11850 pipes, series 3, code 18



Valve body material	Code
1.4435 (ASTM A 351 CF3M)*	34
1.4435 (F316L) forged body	40
1.4539 (F904L)	F4

* Material equivalency 316 L

DIN 11850 Series 3, Code 18												Angle of rotation α	
			L	LS	H1*	H1**	f*	øg*	ød	s	A x B	Valve body material	
MG	DN	NPS	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	Code 34	Code 40, F4
												α°	α°
8	10	⅜"	72	20	8.5		-	-	14	2.0	22 x 22	22	19
10	10	⅜"	108	25	12.5		30	13.5	14	2.0	39 x 44	28	24
	15	½"							20	2.0		17	12
25	15	½"	120	25	13	19	40	13.5	20	2.0	54 x 46	43	33
	20	¾"			16	19			24	2.0		34	28
	25	1"			19	19			30	2.0		24	21
40	32	1 ¼"	153	25	24	26	68	13.5	36	2.0	70 x 65	28	25
	40	1½"			26	26	75	13.5	42	2.0		21	19
50	50	2"	173	30	32		90	13.5	54	2.0	82 x 78	21	18

MG: Diaphragm size

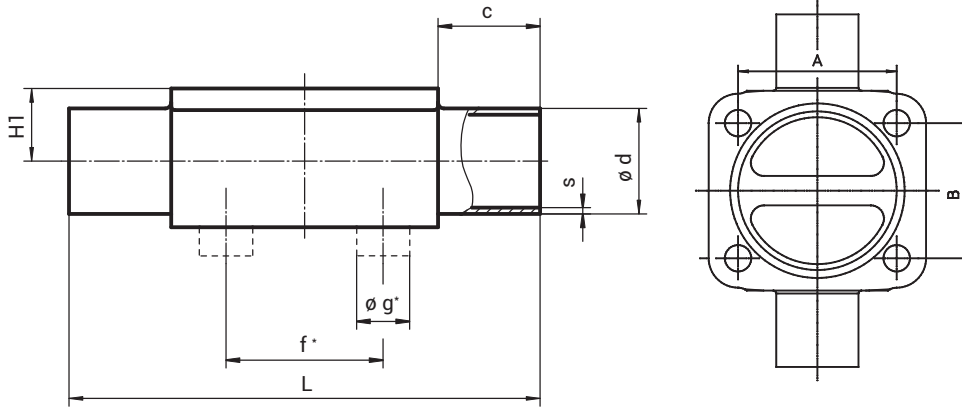
f*, øg*: only on investment cast body;

H1*: investment cast body, H1**: forged body

The availability of the valve bodies depends on the valve body material and the nominal size. If a body is available, the angle of rotation α is indicated in the coloured columns. The angle of rotation is necessary for optimum draining of the body.

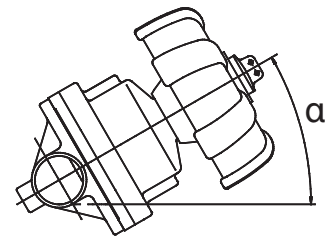
Butt weld spigots

for ASME BPE pipes, code 59



Valve body material	Code
1.4435 (ASTM A 351 CF3M)*	34
1.4435 (F316L) forged body	40
1.4539 (F904L)	F4

* Material equivalency 316 L



ASME BPE, Code 59												Angle of rotation α	
MG	DN	NPS	L [mm]	LS [mm]	H1* [mm]	H1** [mm]	f* [mm]	øg* [mm]	ød [mm]	s [mm]	A x B / ø LK [mm]	Valve body material	
												Code 34 α°	Code 40, F4 α°
8	8	¼"	72	20	8.5		-	-	6.35	0.89	22 x 22	36	34
	10	⅜"					-	-	9.53	0.89		28	26
	15	½"					-	-	12.70	1.65		23	21
10	10	⅜"	108	25	12.5		30	13.5	9.53	0.89	39 x 44	-	28
	15	½"							12.70	1.65		-	25
	20	¾"							19.05	1.65		17	13
25	20	¾"	120	25	16	19	40	13.5	19.05	1.65	54 x 46	39	33
	25	1"			19	19			25.40	1.65		28	26
40	40	1½"	153	25	26	26	75	13.5	38.10	1.65	70 x 65	24	22
50	50	2"	173	30	32	32	90	13.5	50.80	1.65	82 x 78	22	20
80	65	2½"	216	30	62		-	-	63.50	1.65	127 x 114	-	21
	80	3"	254	30			-	-	76.20	1.65		-	16
100	100	4"	305	30	76		-	-	101.60	2.11	ø 194	-	15

MG: Diaphragm size

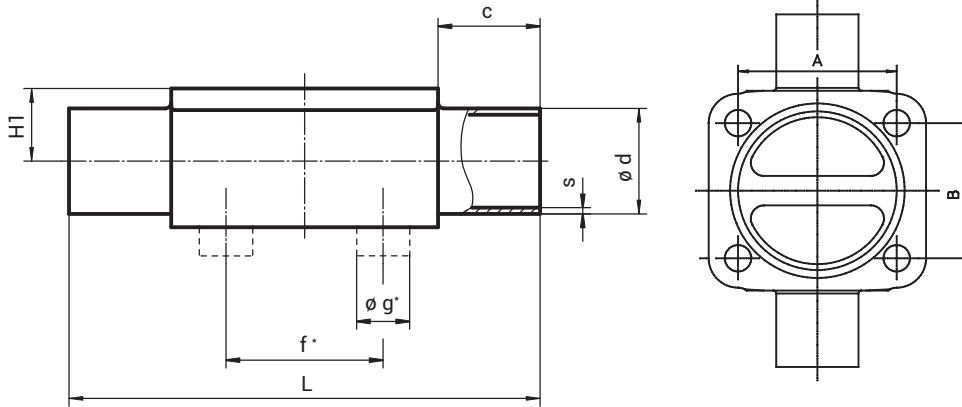
f*, øg*: only on investment cast body;

H1*: investment cast body, H1** forged body

The availability of the valve bodies depends on the valve body material and the nominal size. If a body is available, the angle of rotation α is indicated in the coloured columns. The angle of rotation is necessary for optimum draining of the body.

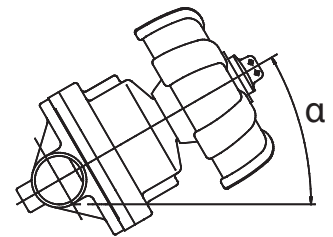
Butt weld spigots

for BS 4825 pipes, code 55



Valve body material	Code
1.4435 (ASTM A 351 CF3M)*	34
1.4435 (F316L) forged body	40
1.4539 (F904L)	F4

* Material equivalency 316 L



BS 4825, Code 55												Angle of rotation α	
MG	DN	NPS	L [mm]	LS [mm]	H1* [mm]	H1** [mm]	f* [mm]	øg* [mm]	ød [mm]	s [mm]	A x B [mm]	Valve body material	
												Code 34 α°	Code 40, F4 α°
8	8	¼"	72	20	8.5		-	-	6.35	1.2	22 x 22	37	35
	10	⅜"					-	-	9.53	1.2		29	27
	15	½"					-	-	12.70	1.2		21	19
10	10	⅜"	108	25	12.5	30	13.5	13.5	9.53	1.2	39 x 44	-	29
	15	½"							12.70	1.2		27	23
	20	¾"							19.05	1.2		15	11
25	20	¾"	120	25	16	19	40	13.5	19.05	1.2	54 x 46	38	32

MG: Diaphragm size

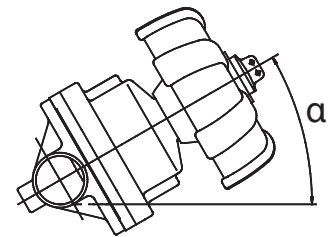
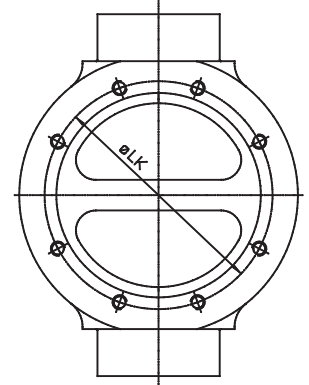
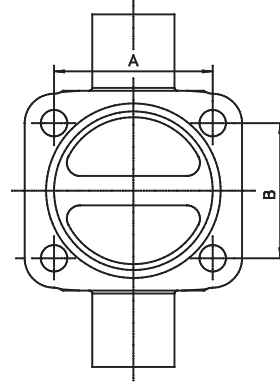
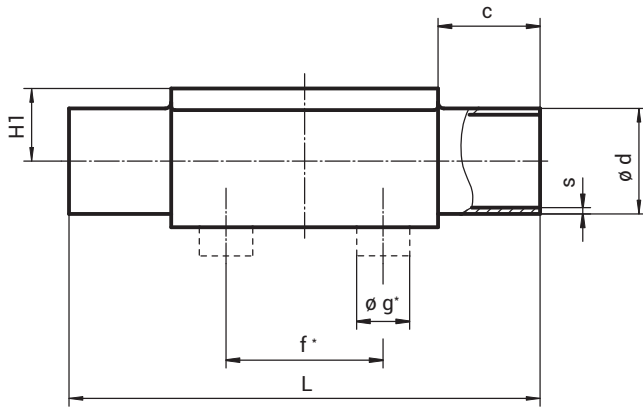
f*, øg*: only on investment cast body;

H1*: investment cast body, H1** forged body

The availability of the valve bodies depends on the valve body material and the nominal size. If a body is available, the angle of rotation α is indicated in the coloured columns. The angle of rotation is necessary for optimum draining of the body.

Butt weld spigots

for JIS-G 3447 pipes, code 35



Valve body material	Code
1.4435 (ASTM A 351 CF3M)*	34
1.4435 (F316L) forged body	40
1.4539 (F904L)	F4

* Material equivalency 316 L

JIS-G 3447. Code 35												Angle of rotation α	
			L	LS	H1*	H1**	f*	øg*	ød	s	A x B /ø LK	Valve body material	
MG	DN	NPS	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	Code 34 α°	Code 40. F4 α°
25	25	1"	120	25	19	19	40	13.5	25.4	1.2	54 x 46	27	25
40	32	1¼"	153	25	24	26	68	13.5	31.8	1.2	70 x 65	30	27
	40	1½"	153	25	26	26	75	13.5	38.1	1.2	70 x 65	23	21
50	50	2"	173	30	32	32	90	13.5	50.8	1.5	82 x 78	22	20
80	65	2½"	216	30	-	62	-	-	63.5	2.0	127 x 114	-	21
	80	3"	254	30	-	-	-	-	76.3	2.0	127 x 114	-	16
100	100	4"	305	30	-	76	-	-	101.6	2.0	ø 194	-	15

MG: Diaphragm size

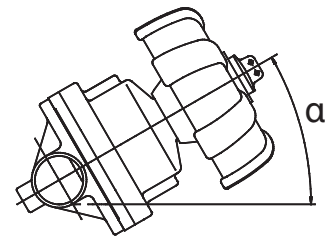
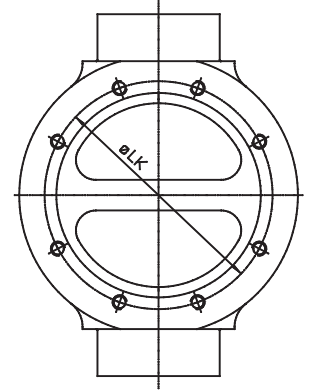
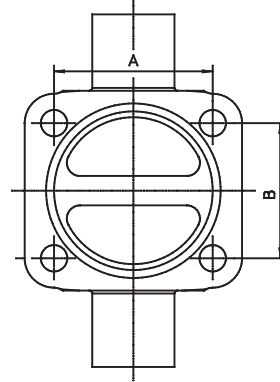
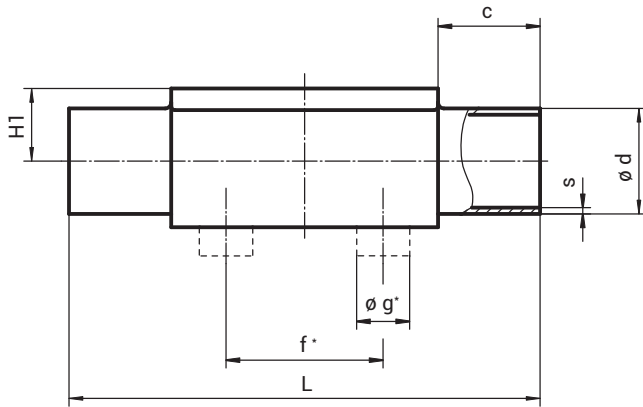
f*. øg*: only on investment cast body;

H1*: investment cast body. H1**: forged body

The availability of the valve bodies depends on the valve body material and the nominal size. If a body is available, the angle of rotation α is indicated in the coloured columns. The angle of rotation is necessary for optimum draining of the body.

Butt weld spigots

for JIS-G 3459 pipes, code 36



Valve body material	Code
1.4435 (ASTM A 351 CF3M)*	34
1.4435 (F316L) forged body	40
1.4539 (F904L)	F4

* Material equivalency 316 L

JIS-G 3459, Code 36												Angle of rotation α	
			L	LS	H1*	H1**	f*	øg*	ød	s	A x B / ø LK	Valve body material	
MG	DN	NPS	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	Code 34 α°	Code 40, F4 α°
8	6	-	72	20	8.5		-	-	10.5	1.20	22 x 22	27	25
	8	¼"							13.8	1.65		21	18
10	10	⅜"	108	25	12.5		30	13.5	17.3	1.65	39 x 44	20	16
	15	½"							21.7	2.10		-	9
25	15	½"	120	25	13	19	40	13.5	21.7	2.10	54 x 46	-	31
	20	¾"			16	19			27.2	2.10		-	25
	25	1"			19	19			34.0	2.80		-	18
40	32	1¼"	153	25	24	26	68	13.5	42.7	2.80	70 x 65	-	20
	40	1½"			26	26	75	13.5	48.6	2.80		-	15
50	50	2"	173	30	32		90	13.5	60.5	2.80	82 x 78	-	15
80	65	2½"	216	30	-	62	-	-	76.3	1.65	127 x 114	-	17
	80	3"	254		-		-	-	89.1	1.65		-	11
100	100	4"	305	30	-	76	-	-	114.3	2.10	ø 194	-	12

MG: Diaphragm size

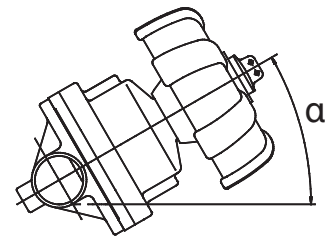
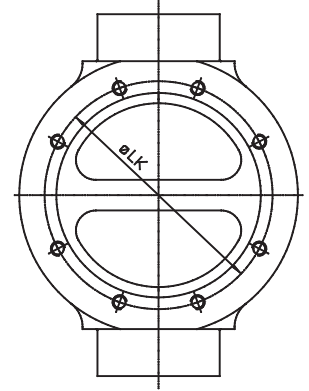
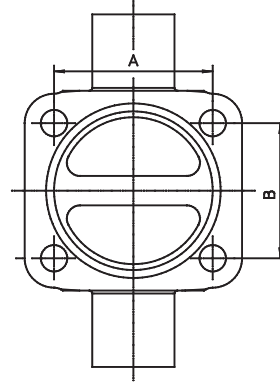
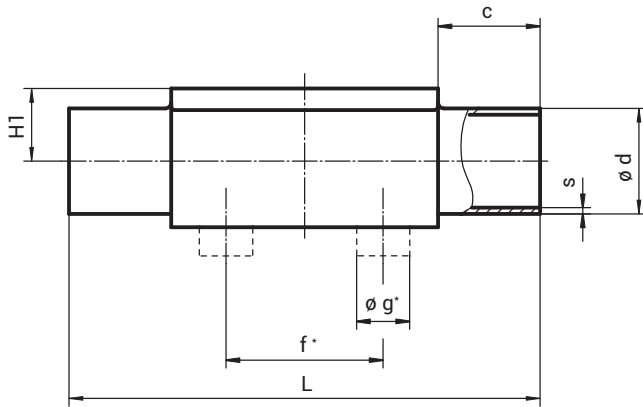
f*, øg*: only on investment cast body;

H1*: investment cast body, H1** forged body

The availability of the valve bodies depends on the valve body material and the nominal size. If a body is available, the angle of rotation α is indicated in the coloured columns. The angle of rotation is necessary for optimum draining of the body.

Butt weld spigots

for SMS 3008 pipes, code 37



Valve body material	Code
1.4435 (ASTM A 351 CF3M)*	34
1.4435 (F316L) forged body	40
1.4539 (F904L)	F4

* Material equivalency 316 L

SMS 3008, Code 37												Angle of rotation α	
			L	LS	H1*	H1**	f*	øg*	ød	s	A x B / ø LK	Valve body material Code 34	Valve body material Code 40, F4
MG	DN	NPS	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	α°	α°
25	25	1"	120	25	19	19	40	13.5	25.0	1.2	54 x 46	27	25
40	32	1¼"	153	25	24	26	68	13.5	33.7	1.2	70 x 65	28	25
	40	1½"			26		75		38.0	1.2		23	21
50	50	2"	173	30	32	32	90	13.5	51.0	1.2	82 x 78	22	19
80	65	2½"	216	30	-	62	-	-	63.5	1.6	127 x 114	-	21
	80	3"	254		-		-	-	76.1	1.6		-	16
100	100	4"	305	30	-	76	-	-	101.6	2.0	ø 194	-	15

MG: Diaphragm size

f*, øg*: only on investment cast body;

H1*: investment cast body, H1** forged body

The availability of the valve bodies depends on the valve body material and the nominal size. If a body is available, the angle of rotation α is indicated in the coloured columns. The angle of rotation is necessary for optimum draining of the body.

Clamp bodies

All clamp connections are machined according to the spigot dimensions e.g. to DIN 11850, SMS 3008 or ASME BPE. We ask our customers to state which version or standard the connections shall comply with.

Depending on the version, clamps are machined from the solid forged body or welded on. Investment cast bodies have welded on clamps as standard.

Welding is carried out by specially qualified and certified welders utilising state-of-the-art welding technology. In principle, special connections requested by customers can be provided on GEMÜ butt weld spigot bodies. Thus it is also possible to have different connections on one body.

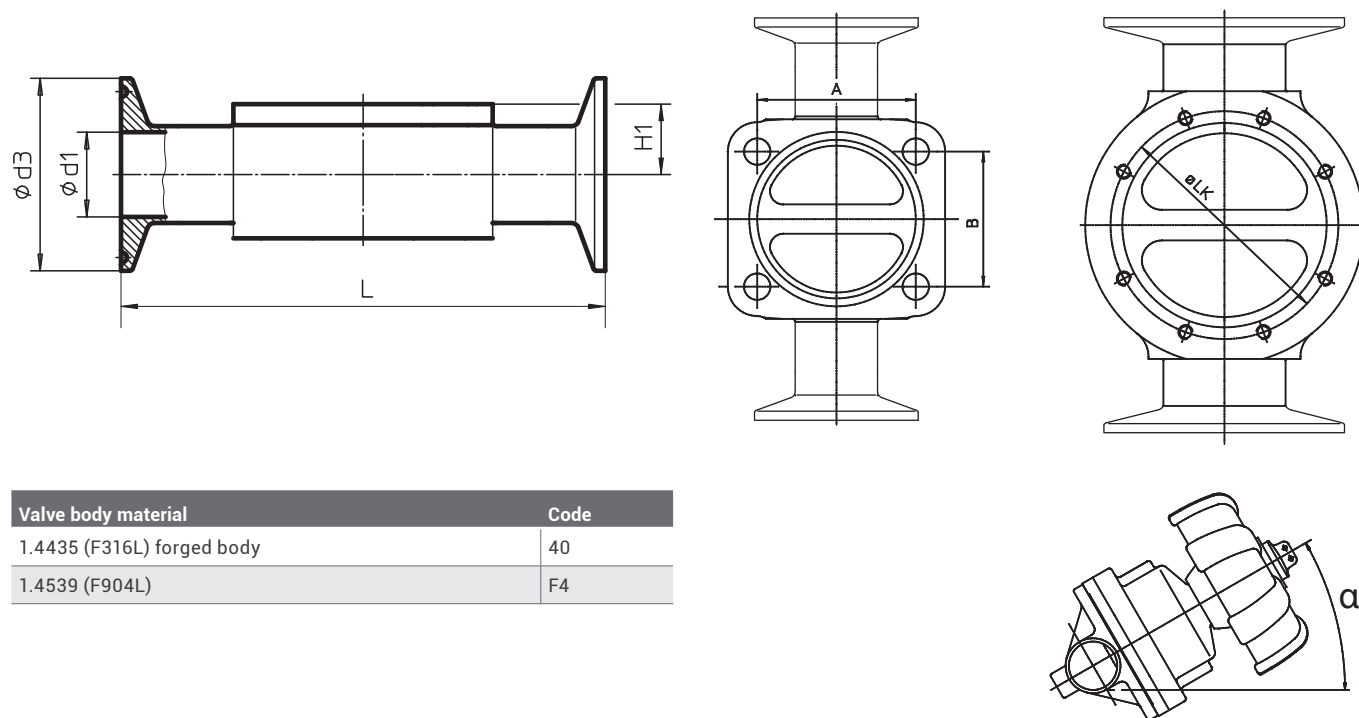
Clamp connections for forged 2/2-way bodies	Code	See page
Clamps ASME BPE for ASME BPE pipes, short design	80	22
Clamps following ASME BPE for EN ISO 1127 pipes, length EN 558-1, series 7	82	23
Clamps ASME BPE for ASME BPE pipes, length EN 558-1, series 7	88	24
Clamps DIN 32676 for DIN 11850 pipes, length EN 558-1, series 7	8A	25
Clamps SMS 3017 for SMS 3008 pipes, length EN 558-1, series 7	8E	26
Clamps IDF/ISO for JIS-G 3447 pipes, length EN 558-1, series 7	8F	27
Clamps IDF/ISO for JIS-G 3459 pipes, length EN 558-1, series 7	8H	28

Other clamp connections on request



Clamps

ASME BPE for ASME BPE pipes, short design, code 80



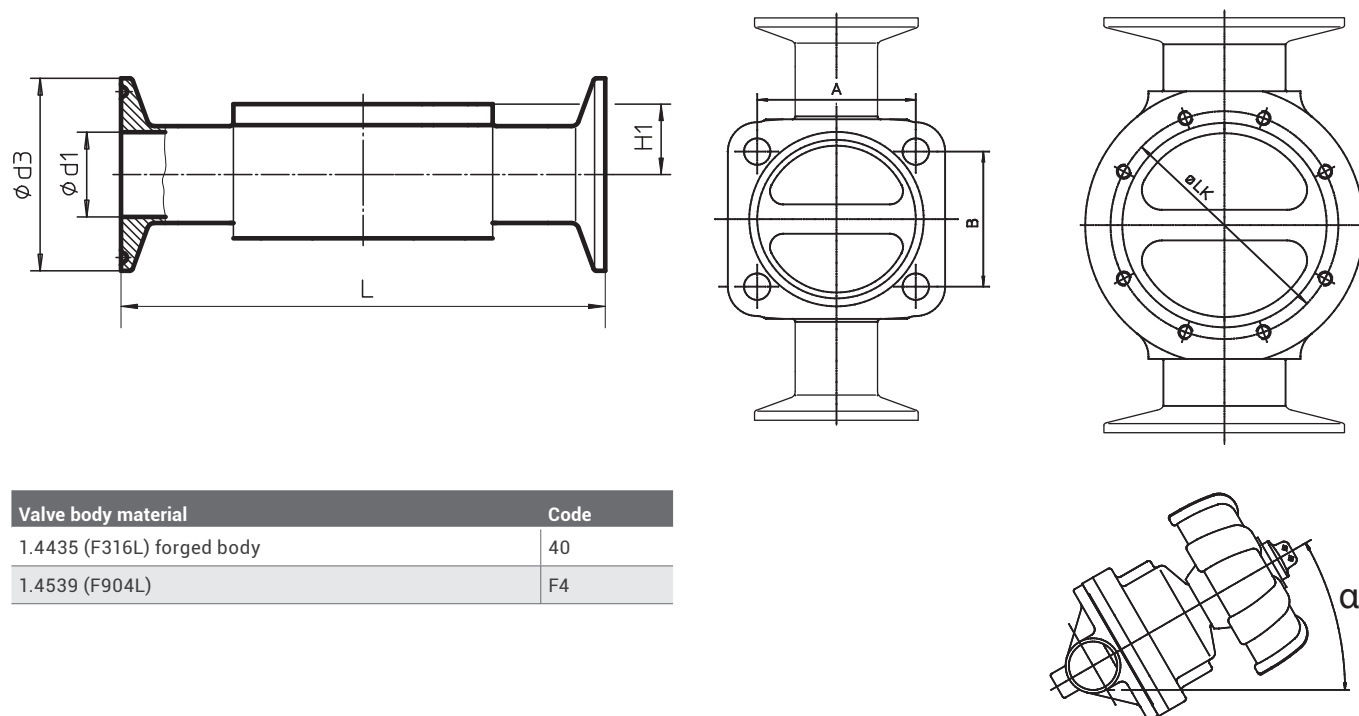
Valve body material	Code
1.4435 (F316L) forged body	40
1.4539 (F904L)	F4

ASME BPE for ASME BPE pipes, short design, code 80								Angle of rotation α
MG	DN	NPS	L [mm]	H1 [mm]	ød1 [mm]	ød3 [mm]	A x B / ø LK [mm]	Valve body material Code 40, F4 α°
8	8	¼"	63.5	8.5	4.57	25.0	22 x 22	34
	10	⅜"			7.75			26
	15	½"			9.40			21
10	15	½"	88.9	12.5	9.40	25.0	39 x 44	25
	20	¾"	101.6		15.75			13
25	20	¾"	101.6	19	15.75	25.0	54 x 46	33
	25	1"	114.3		22.10			26
40	40	1½"	139.7	26	34.80	50.5	70 x 65	22
50	50	2"	158.8	32	47.50	64.0	82 x 78	20
80	65	2½"	193.7	62	60.20	77.5	127 x 114	21
	80	3"	222.3		72.90	91.0		16
100	100	4"	292.1	76	97.38	119.0	ø 194	15

MG: Diaphragm size

Clamps

following ASME BPE for EN ISO 1127 pipes, code 82

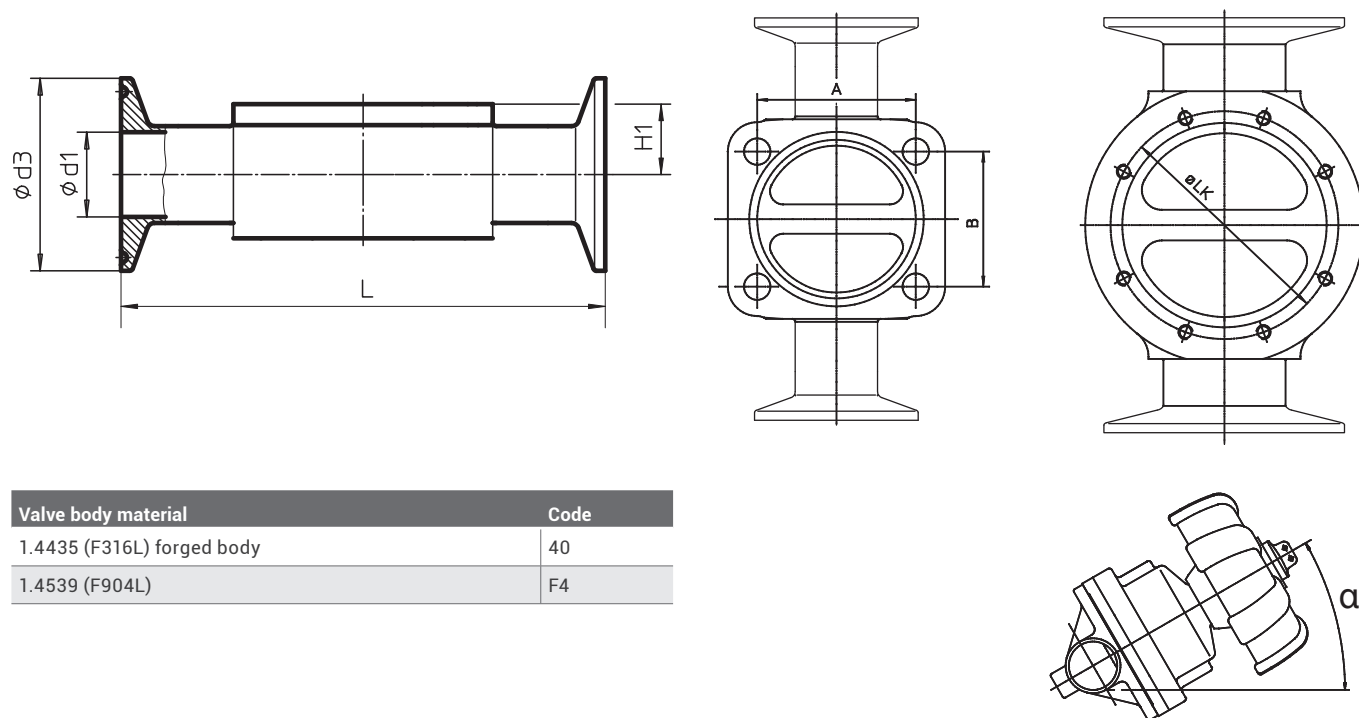


ASME BPE for EN ISO 1127 pipes, length EN 558-1 series 7, code 82								Angle of rotation α
MG	DN	NPS	L [mm]	H1 [mm]	$\phi d1$ [mm]	$\phi d3$ [mm]	A x B / ϕLK [mm]	Valve body material Code 40, F4 α°
8	8	1/4"	63.5	8.5	10.3	25.4	22 x 22	19
10	10	3/8"	108.0	12.5	14.0	25.4	39 x 44	16
	15	1/2"			18.1	50.5		7
25	15	1/2"	108.0	19	18.1	50.5	54 x 46	31
	20	3/4"	117.0		23.7			24
	25	1"	127.0		29.7			17
40	32	1 1/4"	146.0	26	38.4	64.0	70 x 65	19
	40	1 1/2"	159.0		44.3	64.0		14
50	50	2"	190.0	32	56.3	77.5	82 x 78	14
80	65	2 1/2"	216.0	62	72.1	91.0	127 x 114	16
	80	3"	254.0		84.3	106.0		11
100	100	4"	305.0	76	109.7	144.5	$\phi 194$	11

MG: Diaphragm size

Clamps

ASME BPE for ASME BPE pipes, code 88



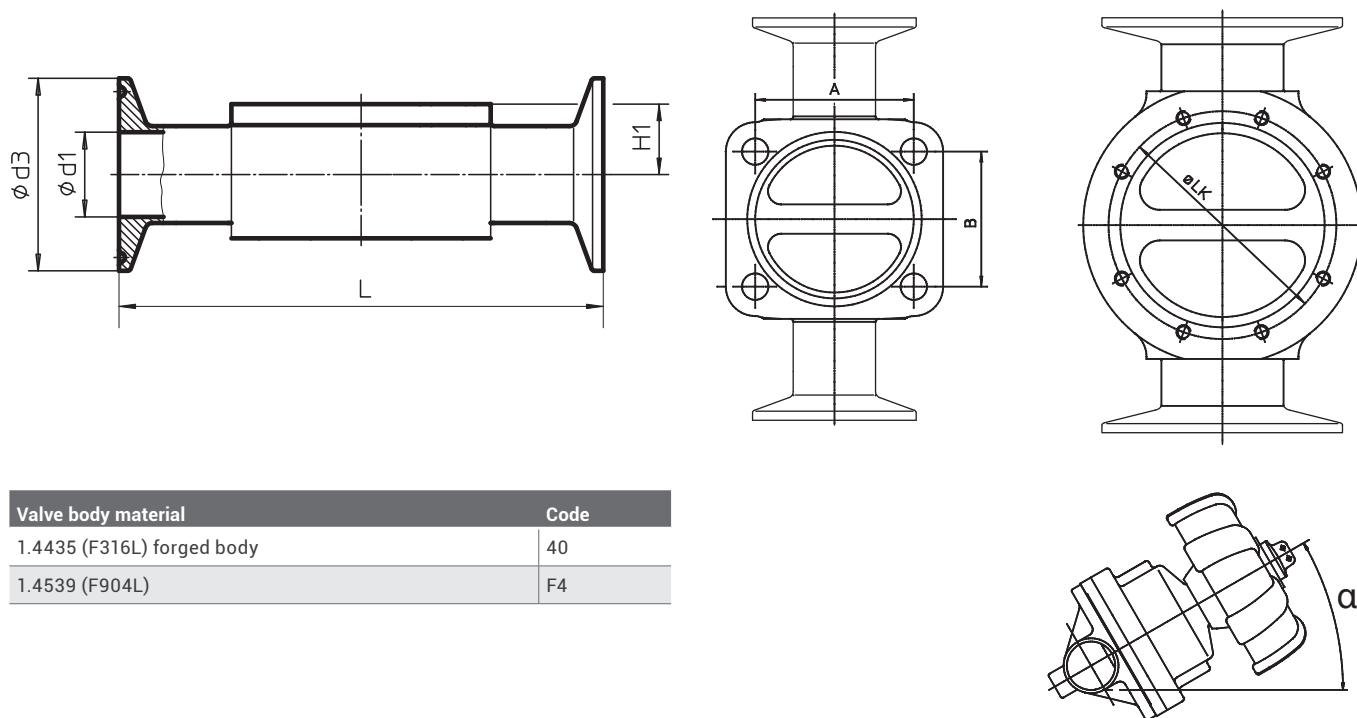
Valve body material	Code
1.4435 (F316L) forged body	40
1.4539 (F904L)	F4

ASME BPE for ASME BPE pipes, length EN 558-1 series 7, code 88								Angle of rotation α
MG	DN	NPS	L [mm]	H1 [mm]	$\phi d1$ [mm]	$\phi d3$ [mm]	A x B / ϕLK [mm]	Valve body material Code 40, F4 α°
8	15	½"	108	8.5	9.40	25.0	22 x 22	21
10	15	½"	108	12.5	9.40	25.0	39 x 44	25
	20	¾"	117		15.75			13
25	20	¾"	117	19	15.75	25.0	54 x 46	33
	25	1"	127		22.10			26
40	40	1½"	159	26	34.80	50.5	70 x 65	22
50	50	2"	190	32	47.50	64.0	82 x 78	20
80	65	2½"	216	62	60.20	77.5	127 x 114	21
	80	3"	254		72.90	91.0		16
100	100	4"	305	76	97.38	119.0	$\phi 194$	15

MG: Diaphragm size

Clamps

DIN 32676 for DIN 11850 pipes, code 8A

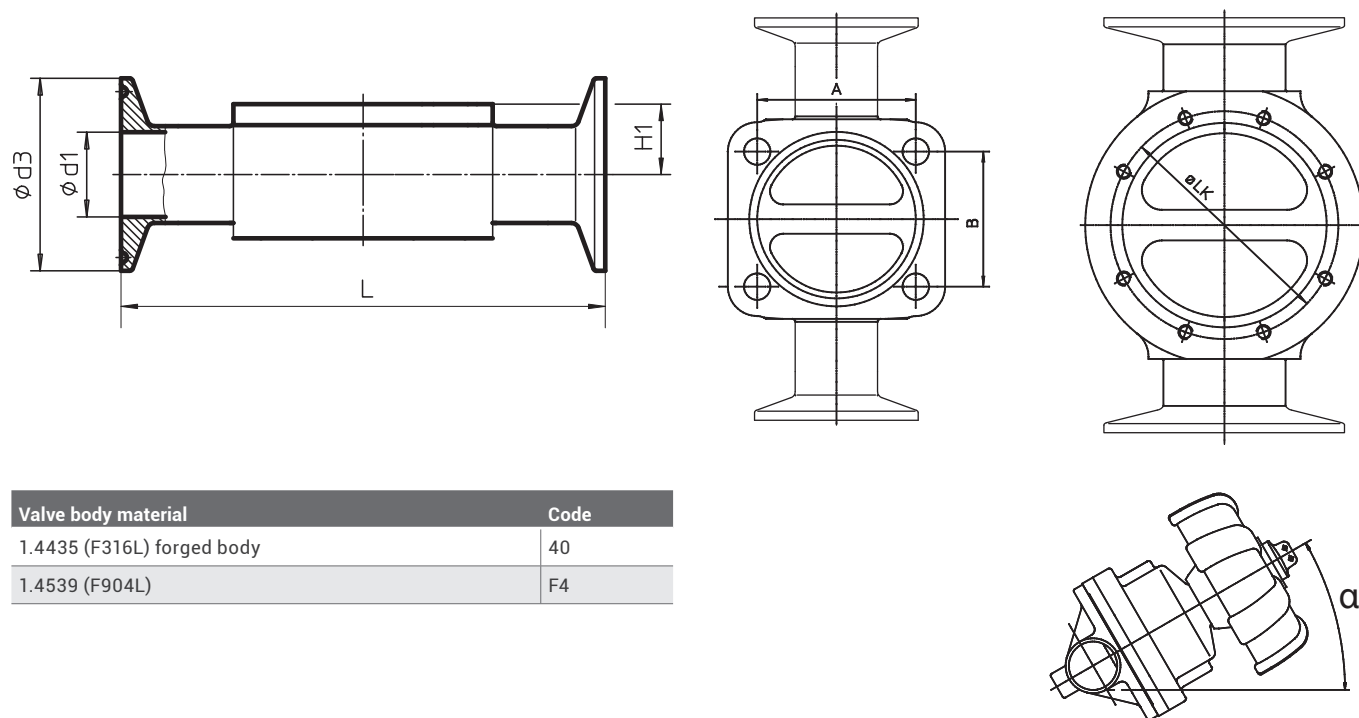


DIN 32676 for DIN 11850 pipes, length EN 558-1 series 7, code 8A								Angle of rotation α
MG	DN	NPS	L [mm]	H1 [mm]	$\varnothing d1$ [mm]	$\varnothing d3$ [mm]	A x B / $\varnothing LK$ [mm]	Valve body material Code 40, F4 α°
8	10	$\frac{3}{8}$ "	88.9	8.5	10.0	34.0	22 x 22	19
10	10	$\frac{3}{8}$ "	108.0	12.5	10.0	34.0	39 x 44	24
	15	$\frac{1}{2}$ "			16.0			12
25	15	$\frac{1}{2}$ "	108.0	19	16.0	34.0	54 x 46	33
	20	$\frac{3}{4}$ "	117.0		20.0			28
	25	1"	127.0		26.0	50.5		21
40	32	1 $\frac{1}{4}$ "	146.0	26	32.0	50.5	70 x 65	25
	40	1 $\frac{1}{2}$ "	159.0		38.0			19
50	50	2"	190.0	32	50.0	64.0	82 x 78	18
80	65	2 $\frac{1}{2}$ "	216.0	62	66.0	91.0	127 x 114	18
	80	3"	254.0		81.0	106.0		12
100	100	4"	305.0	76	100.0	119.0	$\varnothing 194$	14

MG: Diaphragm size

Clamps

SMS 3017 for SMS 3008 pipes, code 8E



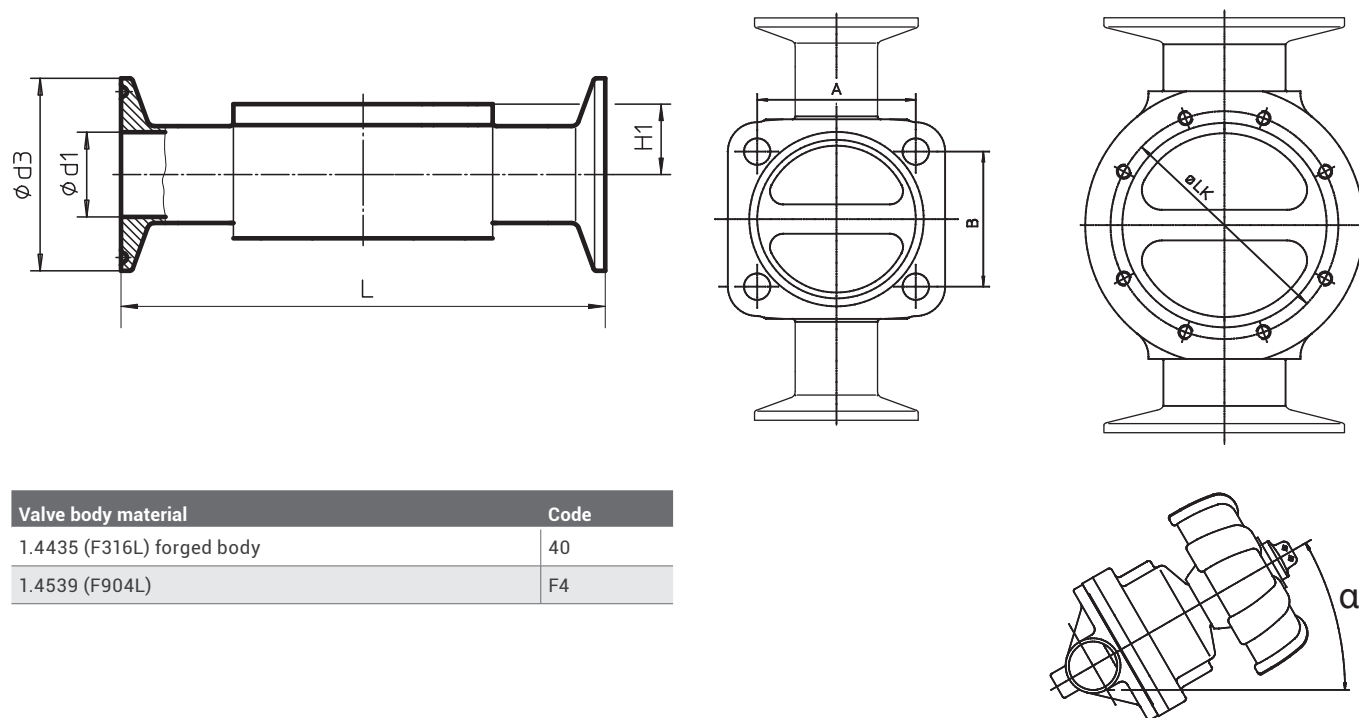
Valve body material	Code
1.4435 (F316L) forged body	40
1.4539 (F904L)	F4

SMS 3017 for SMS 3008 pipes, length EN 558-1 series 7, code 8E								Angle of rotation α
MG	DN	NPS	L [mm]	H1 [mm]	$\varnothing d1$ [mm]	$\varnothing d3$ [mm]	A x B / $\varnothing LK$ [mm]	Valve body material Code 40, F4 α°
25	25	1"	127	19	22.6	50.5	54 x 46	25
40	32	1¼"	146	26	31.3	50.5	70 x 65	25
	40	1½"	159		35.6			21
50	50	2"	190	32	48.6	64.0	82 x 78	19
80	65	2½"	216	62	60.3	77.5	127 x 114	21
	80	3"	254		72.9	91.0		16
100	100	4"	305	76	97.6	119.0	$\varnothing 194$	15

MG: Diaphragm size

Clamps

IDF/ISO for JIS-G 3447 pipes, code 8F



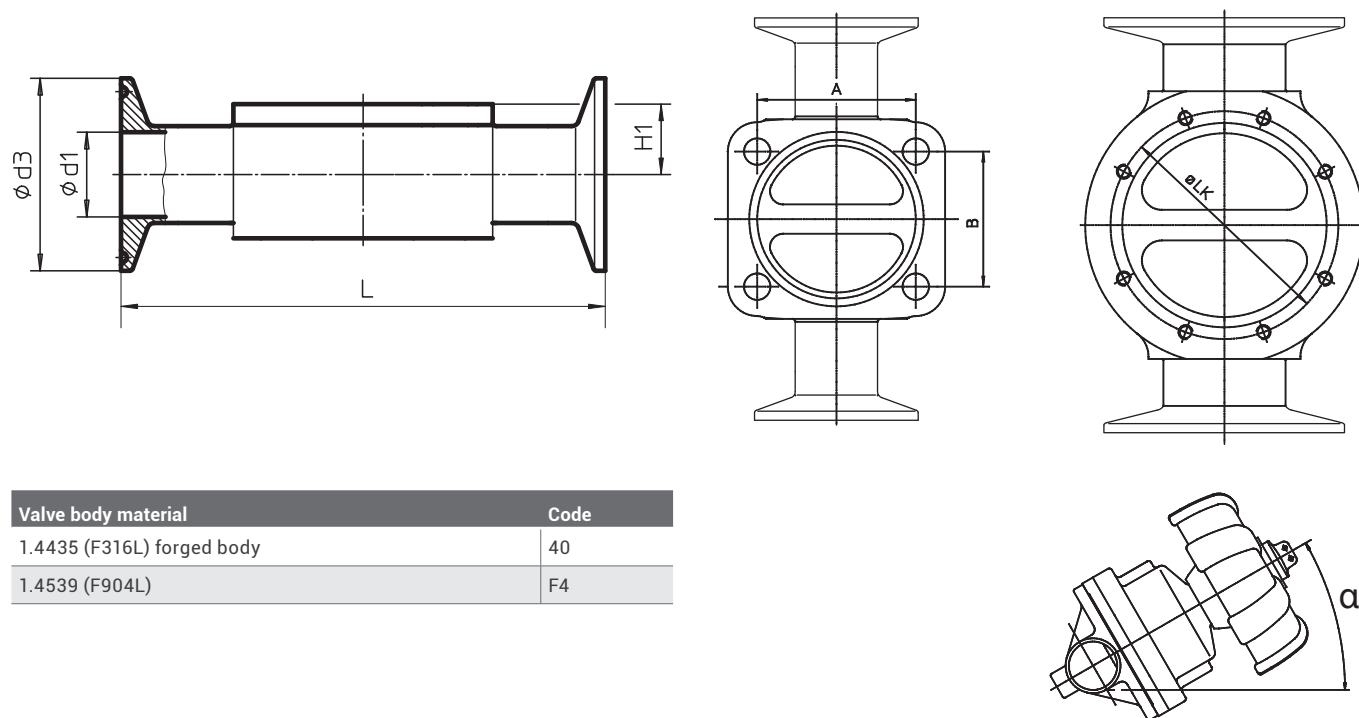
Valve body material	Code
1.4435 (F316L) forged body	40
1.4539 (F904L)	F4

IDF/ISO for JIS-G 3447 pipes, length EN 558-1 series 7, code 8F								Angle of rotation α
MG	DN	NPS	L [mm]	H1 [mm]	$\varnothing d1$ [mm]	$\varnothing d3$ [mm]	A x B / $\varnothing LK$ [mm]	Valve body material Code 40, F4 α°
25	25	1"	127	19	23	50,5	54 x 46	25
40	32	1¼"	146	26	29,4	50,5	70 x 65	27
	40	1½"	159		35,7			21
50	50	2"	190	32	47,8	64,0	82 x 78	20
80	65	2½"	216	62	59,5	77,5	127 x 114	21
	80	3"	254		72,3	91,0		16
100	100	4"	305	76	97,6	119,0	$\varnothing 194$	15

MG: Diaphragm size

Clamps

IDF/ISO for JIS-G 3459 pipes, code 8H



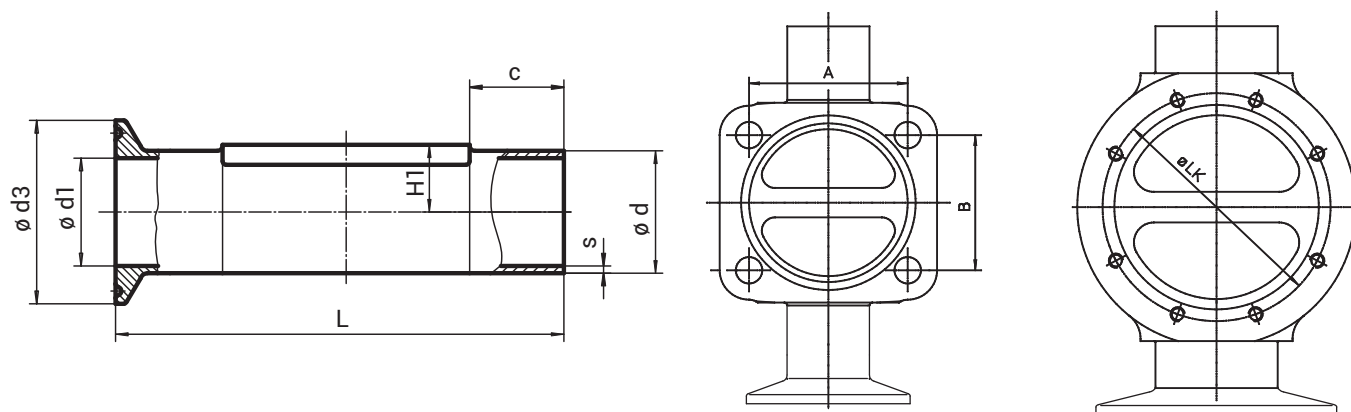
Valve body material	Code
1.4435 (F316L) forged body	40
1.4539 (F904L)	F4

IDF/ISO for JIS-G 3459 pipes, length EN 558-1 series 7, code 8H								Angle of rotation α
MG	DN	NPS	L [mm]	H1 [mm]	$\phi d1$ [mm]	$\phi d3$ [mm]	A x B / ϕLK [mm]	Valve body material Code 40, F4 α°
8	8	1/4"	88.9	8.5	10.5	34.0	22 x 22	18
10	10	3/8"	108.0	12.5	14.0	34.0	39 x 44	16
	15	1/2"			17.5			9
25	15	1/2"	108.0	19	17.5	34.0	54 x 46	31

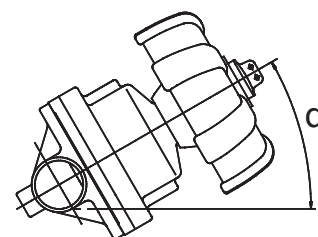
MG: Diaphragm size

Clamps

ASME BPE (short design), code 80 - butt weld spigot ASME BPE, code 59



Valve body material	Code
1.4435 (F316L) forged body	40
1.4539 (F904L)	F4

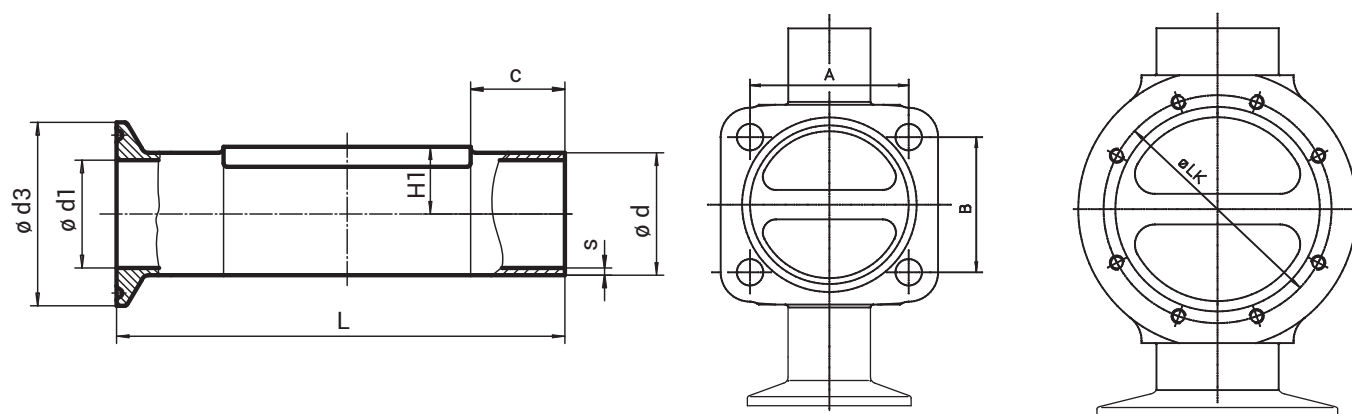


Clamp ASME BPE (short design), code 80 - butt weld spigot ASME BPE, code 59											Angle of rotation α
MG	DN	NPS	L [mm]	LS [mm]	H1 [mm]	$\phi d1$ [mm]	$\phi d3$ [mm]	ϕd [mm]	s [mm]	A x B / ϕLK [mm]	Valve body material Code 40, F4 α°
8	8	1/4"				4.57		6.35			34
	10	3/8"	67.75	20	8.5	7.75	25.0	9.35	0.89	22 x 22	26
	15	1/2"				9.40		12.70	1.65		21
10	15	1/2"	98.50	25	12.5	9.40	25.0	12.70	1.65	39 x 44	25
	20	3/4"	104.80			15.75		19.05			13
25	20	3/4"	110.80	25	19.0	15.75	25.0	19.05	1.65	54 x 46	33
	25	1"	117.15			22.10	50.5	25.40			26
40	40	1 1/2"	146.35	25	26.0	34.80	50.5	38.10	1.65	70 x 65	22
50	50	2"	165.90	30	32.0	47.50	64.0	50.80	1.65	82 x 78	20
80	65	2 1/2"	204.80	30	62.0	60.20	77.5	63.50	1.65	127 x 114	21
	80	3"	238.10			72.90	91.0	76.20			16
100	100	4"	298.60	30	76.0	97.38	119.0	101.60	2.11	$\phi 194$	15

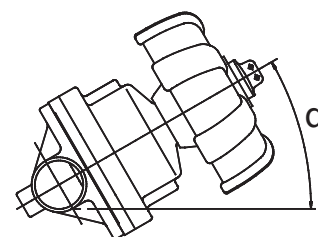
MG: Diaphragm size

Clamps

ASME BPE, length EN 558-1 series 7, code 82 - butt weld spigot EN ISO 1127, code 60



Valve body material	Code
1.4435 (F316L) forged body	40
1.4539 (F904L)	F4

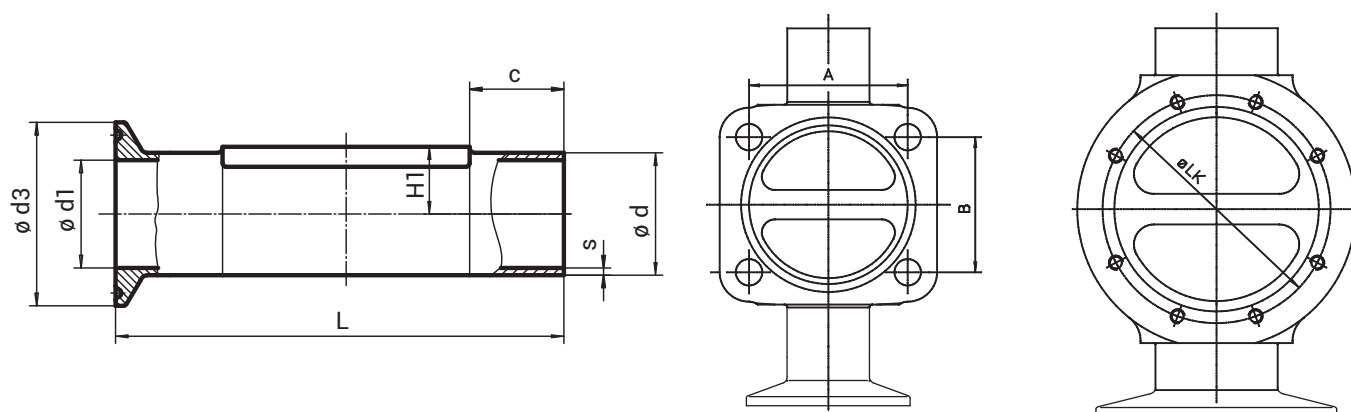


Clamp ASME BPE, length EN 558-1 series 7, code 82 - butt weld spigot EN ISO 1127, code 60											Angle of rotation α
MG	DN	NPS	L [mm]	LS [mm]	H1 [mm]	ød1 [mm]	ød3 [mm]	ød [mm]	s [mm]	A x B / ø LK [mm]	Valve body material Code 40, F4 α°
8	8	¼"	67.75	20	8.5	10.3	25.4	13.5	1.6	22 x 22	19
10	10	⅜"	108.00	25	12.5	14.0	25.4	17.2	1.6	39 x 44	16
	15	½"				18.1	50.5	21.3	1.6		7
25	15	½"	114.00	25	19.0	18.1	50.5	21.3	1.6	54 x 46	31
	20	¾"	118.50			23.7		26.9	1.6		24
	25	1"	123.50			29.7		33.7	2.0		17
40	32	1¼"	149.50	25	26.0	38.4	64.0	42.4	2.0	70 x 65	19
	40	1½"	156.00			44.3		48.3	2.0		14
50	50	2"	181.50	30	32.0	56.3	77.5	60.3	2.0	82 x 78	14
80	65	2½"	216.00	30	62.0	72.1	91.0	76.1	2.0	127 x 114	16
	80	3"	254.00			84.3	106.0	88.9	2.3		11
100	100	4"	305.00	30	76.0	109.7	144.5	114.3	2.3	ø 194	11

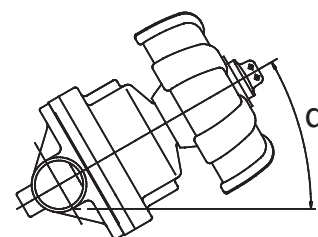
MG: Diaphragm size

Clamps

ASME BPE, length EN 558-1 series 7, code 88 - butt weld spigot ASME BPE, code 59



Valve body material	Code
1.4435 (F316L) forged body	40
1.4539 (F904L)	F4

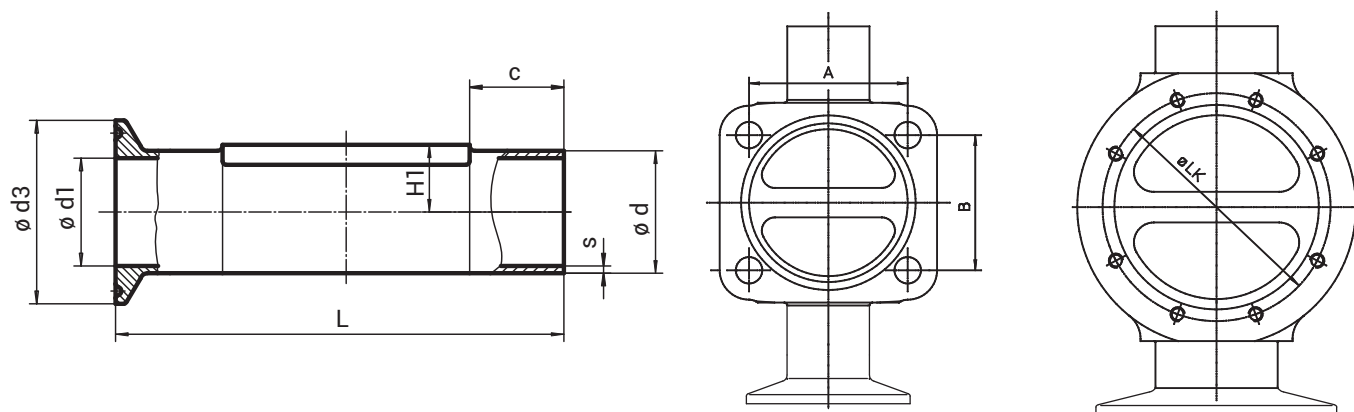


Clamp ASME BPE, length EN 558-1 series 7, code 88 - butt weld spigot ASME BPE, code 59											Angle of rotation α
MG	DN	NPS	L [mm]	LS [mm]	H1 [mm]	ød1 [mm]	ød3 [mm]	ød [mm]	s [mm]	A x B / ø LK [mm]	Valve body material Code 40, F4 α°
8	15	½"	90.0	20	8.5	9.40	25.0	12.70	1.65	22 x 22	21
10	15	½"	108.0	25	12.5	9.40	25.0	12.70	1.65	39 x 44	25
	20	¾"	112.5	25	12.5	15.75	25.0	19.05	1.65	39 x 44	13
25	20	¾"	118.5	25	19.0	15.75	25.0	19.05	1.65	54 x 46	33
	25	1"	123.5	25	19.0	22.10	50.5	25.40	1.65	54 x 46	26
40	40	1½"	156.0	25	26.0	34.80	50.5	38.10	1.65	70 x 65	22
50	50	2"	181.5	30	32.0	47.50	64.0	50.80	1.65	82 x 78	20
80	65	2½"	216.0	30	62.0	60.20	77.5	63.50	1.65	127 x 114	21
	80	3"	254.0	30	62.0	72.90	91.0	76.20	1.65	127 x 114	16
100	100	4"	305.0	30	76.0	97.38	119.0	101.60	2.11	ø 194	15

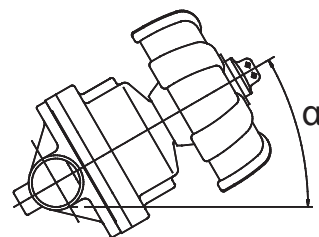
MG: Diaphragm size

Clamps

DIN 32676, code 8A - butt weld spigot DIN 11850 series 1, code 16



Valve body material	Code
1.4435 (F316L) forged body	40
1.4539 (F904L)	F4

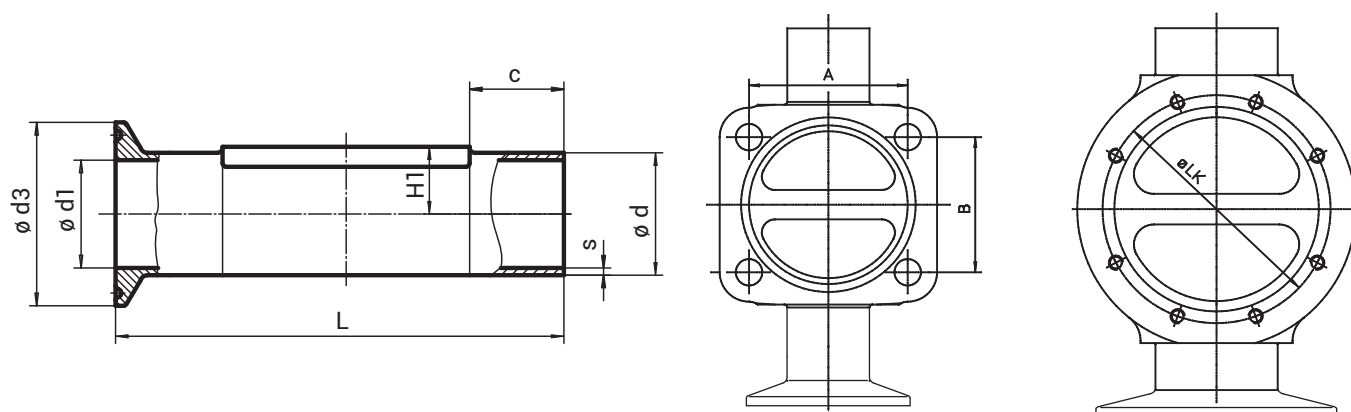


Clamp DIN 32676, code 8A - butt weld spigot DIN 11850 series 1, code 16											Angle of rotation α
MG	DN	NPS	L [mm]	LS [mm]	H1 [mm]	ød1 [mm]	ød3 [mm]	ød [mm]	s [mm]	A x B / ø LK [mm]	Valve body material Code 40, F4 α°
8	10	3/8"	80.45	20	8.5	10.0	34.0	12	1.0	22 x 22	19
10	10	3/8"	108.00	25	12.5	10.0	34.0	12	1.0	39 x 44	24
	15	1/2"				16.0	34.0	18			12
25	15	1/2"	114.00			16.0	34.0	18			33
	20	3/4"	118.50	25	19.0	20.0		22	1.0	54 x 46	28
	25	1"	123.50			26.0	50.5	28			21
40	32	1 1/4"	149.50	25	26.0	32.0	50.5	34	1.0	70 x 65	25
	40	1 1/2"	156.00			38.0	50.5	40			19
50	50	2"	181.50	30	32.0	50.0	64.0	52	1.0	82 x 78	18

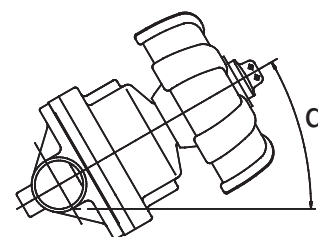
MG: Diaphragm size

Clamps

DIN 32676, code 8A - butt weld spigot DIN 11850 series 2, code 17



Valve body material	Code
1.4435 (F316L) forged body	40
1.4539 (F904L)	F4

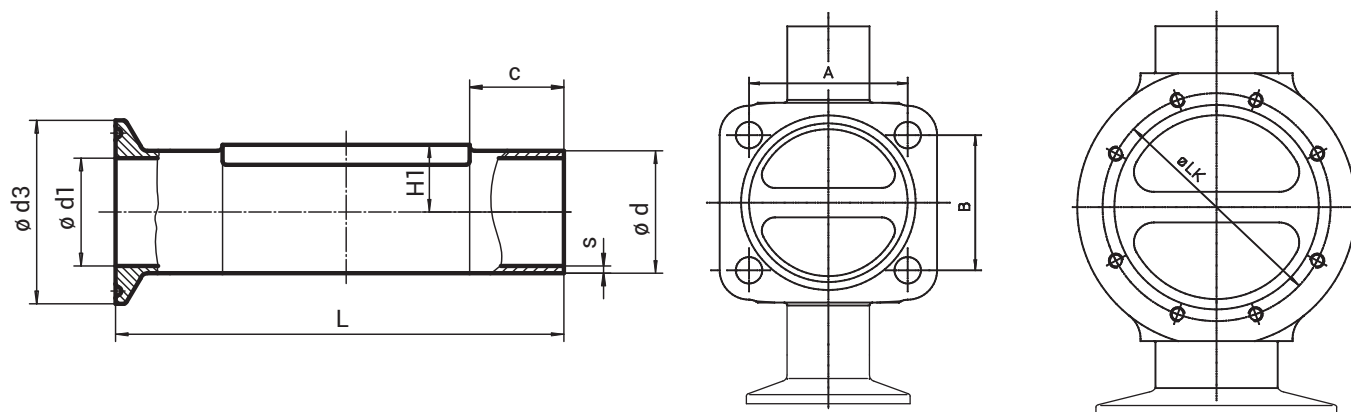


Clamp DIN 32676, code 8A - butt weld spigot DIN 11850 series 2, code 17											Angle of rotation α
MG	DN	NPS	L [mm]	LS [mm]	H1 [mm]	ød1 [mm]	ød3 [mm]	ød [mm]	s [mm]	A x B / ø LK [mm]	Valve body material Code 40, F4 α°
8	10	3/8"	80.45	20	8.5	10.0	34.0	13	1.5	22 x 22	19
10	10	3/8"	108.00	25	12.5	10.0	34.0	13	1.5	39 x 44	24
	15	1/2"				16.0	34.0	19			12
25	15	1/2"	114.00			16.0	34.0	19			33
	20	3/4"	118.50	25	19.0	20.0		23	1.5	54 x 46	28
	25	1"	123.50			26.0	50.5	29			21
40	32	1 1/4"	149.50	25	26.0	32.0	50.5	35	1.5	70 x 65	25
	40	1 1/2"	156.00			38.0		41			19
50	50	2"	181.50	30	32.0	50.0	64.0	53	1.5	82 x 78	18
80	65	2 1/2"	216.00	30	62.0	66.0	91.0	70	2.0	127 x 114	18
	80	3"	254.00			81.0	106.0	85			12
100	100	4"	305.00	30	76.0	100.0	119.0	104	2.0	ø 194	14

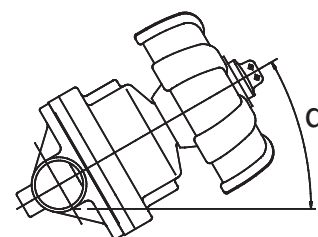
MG: Diaphragm size

Clamps

DIN 32676, code 8A - butt weld spigot DIN 11850 series 3, code 18



Valve body material	Code
1.4435 (F316L) forged body	40
1.4539 (F904L)	F4

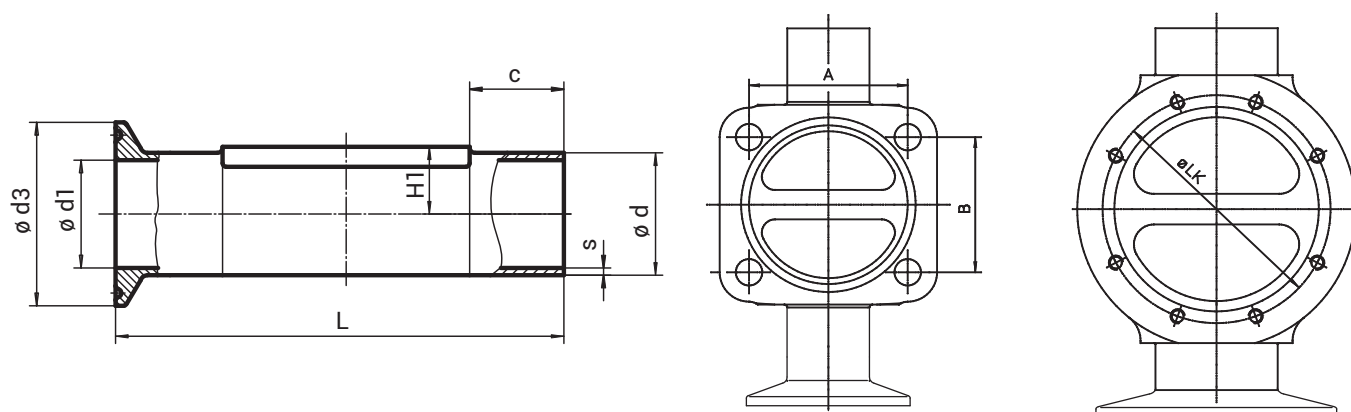


Clamp DIN 32676, code 8A - butt weld spigot DIN 11850 series 3, code 18											Angle of rotation α
MG	DN	NPS	L [mm]	LS [mm]	H1 [mm]	$\phi d1$ [mm]	$\phi d3$ [mm]	ϕd [mm]	s [mm]	A x B / ϕLK [mm]	Valve body material Code 40, F4 α°
8	10	3/8"	80.45	20	8.5	10.0	34.0	14	2.0	22 x 22	19
10	10	3/8"	108.00	25	12.5	10.0	34.0	14	2.0	39 x 44	24
	15	1/2"				16.0		20			12
25	15	1/2"	114.00	25	19.0	16.0	34.0	20	2.0	54 x 46	33
	20	3/4"	118.50			20.0		24			28
	25	1"	123.50			26.0		30			21
40	32	1 1/4"	149.50	25	26.0	32.0	50.5	36	2.0	70 x 65	25
	40	1 1/2"	156.00			38.0		42			19
50	50	2"	181.50	30	32.0	50.0	64.0	54	2.0	82 x 78	18

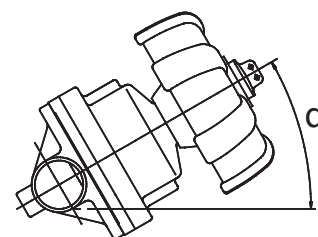
MG: Diaphragm size

Clamps

IDF/ISO for JIS-G 3447 pipes, code 8F - butt weld spigot JIS-G 3447, code 35



Valve body material	Code
1.4435 (F316L) forged body	40
1.4539 (F904L)	F4

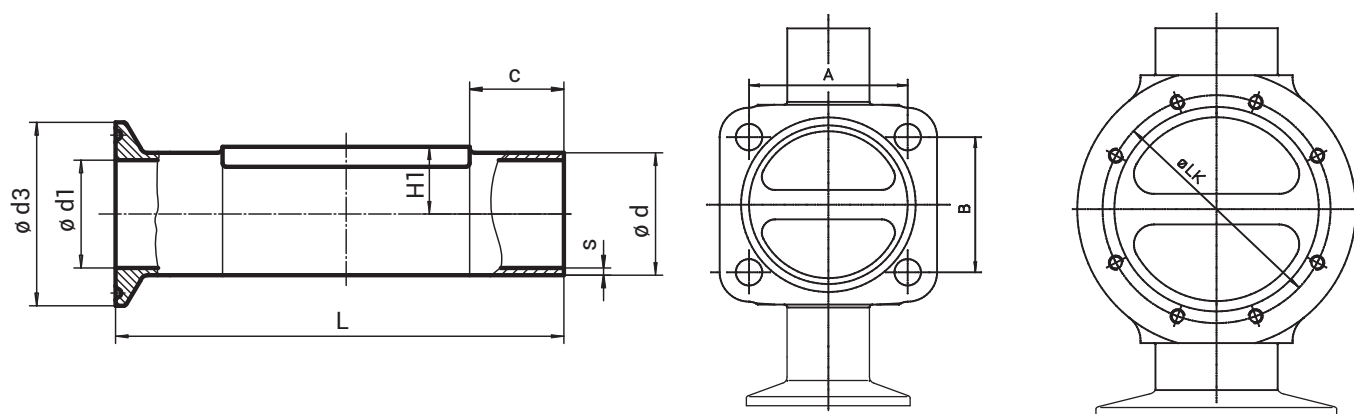


Clamp IDF/ISO for JIS-G 3447 pipes, code 8F - butt weld spigot JIS-G 3447, code 35											Angle of rotation α
MG	DN	NPS	L [mm]	LS [mm]	H1 [mm]	ød1 [mm]	ød3 [mm]	ød [mm]	s [mm]	A x B / ø LK [mm]	Valve body material Code 40, F4 α°
25	25	1"	123.5	25	19	23	50.5	25.4	1.2	54 x 46	25
40	32	1¼"	149.5	25	26	29.4	50.5	31.8	1.2	70 x 65	27
	40	1½"	156.0	25	26	35.7	50.5	38.1	1.2	70 x 65	21
50	50	2"	181.5	30	32	47.8	64.0	50.8	1.5	82 x 78	20
80	65	2½"	216.0	30	62	59.5	77.5	63.5	2.0	127 x 114	21
	80	3"	254.0	30	62	72.3	91.0	76.3	2.0	127 x 114	16
100	100	4"	305.0	30	76	97.6	119.0	101.6	2.0	ø 194	15

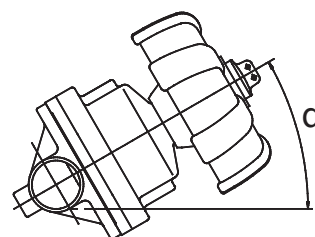
MG: Diaphragm size

Clamps

IDF/ISO for JIS-G 34597 pipes, code 8H - butt weld spigot JIS-G 3459, code 36



Valve body material	Code
1.4435 (F316L) forged body	40
1.4539 (F904L)	F4

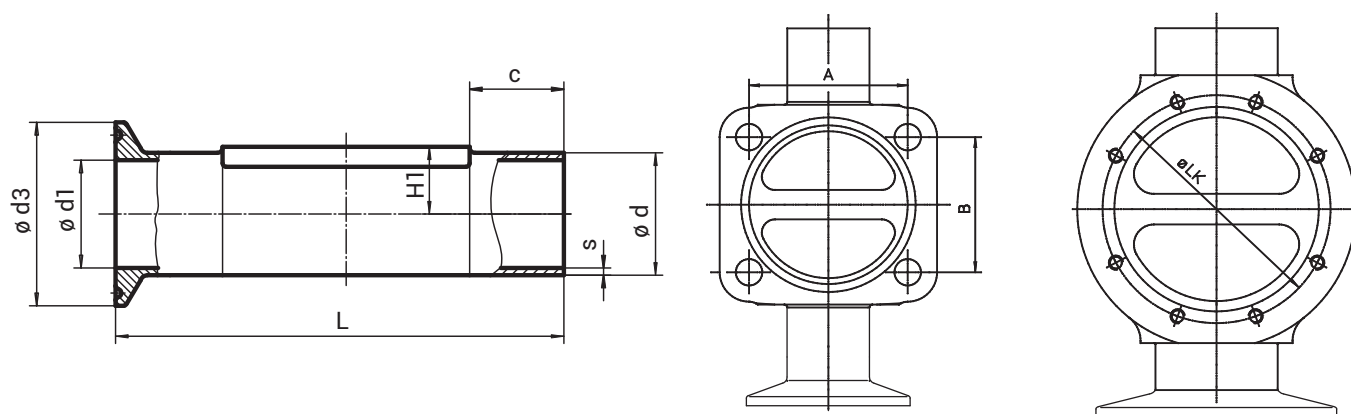


Clamp IDF/ISO for JIS-G 34597 pipes, code 8H - butt weld spigot JIS-G 3459, code 36											Angle of rotation α
MG	DN	NPS	L [mm]	LS [mm]	H1 [mm]	ød1 [mm]	ød3 [mm]	ød [mm]	s [mm]	A x B / ø LK [mm]	Valve body material Code 40, F4 α°
8	8	¼"	88.9	20	8.5	10.5	34.0	13.8	1.65	22 x 22	18
10	10	⅜"	108.0	25	12.5	14.0	34.0	17.3	1.65	39 x 44	16
	15	½"						21.7	2.10		9
25	15	½"	108.0	25	19.0	17.5	34.0	21.7	2.10	54 x 46	31

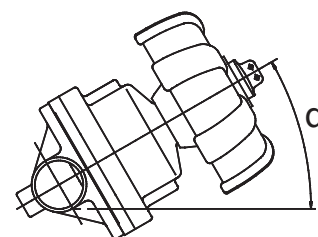
MG: Diaphragm size

Clamps

SMS 3017, length EN 558-1 series 7, code 8E - butt weld spigot SMS 3008, code 37



Valve body material	Code
1.4435 (F316L) forged body	40
1.4539 (F904L)	F4



Clamp SMS 3017, length EN 558-1 series 7, code 8E - butt weld spigot SMS 3008, code 37											Angle of rotation α
MG	DN	NPS	L [mm]	LS [mm]	H1 [mm]	ød1 [mm]	ød3 [mm]	ød [mm]	s [mm]	A x B / ø LK [mm]	Valve body material Code 40, F4 α°
25	25	1"	123.5	25	19	22.6	50.5	25.0	1.2	54 x 46	25
40	32	1¼"	149.5	25	26	31.3	50.5	33.7	1.2	70 x 65	25
	40	1½"	156.0	25	26	35.6	50.5	38.0	1.2	70 x 65	21
50	50	2"	181.5	30	32	48.6	64.0	51.0	1.2	82 x 78	19
80	65	2½"	216.0	30	62	60.3	77.5	63.5	1.6	127 x 114	21
	80	3"	254.0	30	62	72.9	91.0	76.1	1.6	127 x 114	16
100	100	4"	305.0	30	76	97.6	119.0	101.6	2.0	ø 194	15

MG: Diaphragm size

Aseptic clamps

Aseptic clamping connections to DIN 11864-3-A complement the existing clamping connection options. Either grooved clamps or notched clamps are welded onto the base of the DIN or ISO butt weld spigot body on both sides. If the valve is to have a grooved clamp on one side and a notched clamp on the other side, this is defined by the corresponding code. Other types of connection, such as the combination of an aseptic clamp and butt weld spigot, are possible in principle and are each individually defined depending on requirements.

Aseptic clamping connection DIN 11864-3-A	Code	
	Pipe	
	DIN	ISO
Grooved aseptic clamp on both sides	E1	E4
Notched aseptic clamp on both sides	E2	E5
One side grooved aseptic clamp, other side notched aseptic clamp	E3	E6



Dairy pipe and aseptic unions

The dairy pipe union to DIN 11851 and the aseptic pipe union to DIN 11864-1-A are also standard connections. If the valve is to have a threaded spigot at one connection and a conical coupling or liner with union nuts at the other side, this is defined by the corresponding code. Furthermore, other versions customary on the market can also be adapted.

Unions to DIN 11851	Code
Threaded spigot on both sides	6
Threaded spigot on one side, cone spigot with union nut on the other side	62

Aseptic pipe union DIN 11864-1-A	Code	
	Pipe	
	DIN	ISO
Aseptic threaded spigot on both sides	C1	C4
Aseptic union with union nut on both sides	C2	C5
One side aseptic threaded spigot, other side aseptic union with union nut	C3	C6



Aseptic flanges

Aseptic flanges to DIN 11864-2-A complement the existing standard connection options. Either grooved flanges or loose flanges are welded onto the base of the DIN or ISO butt weld spigot body on both sides. If the valve is to have a grooved flange at one connection and a loose flange at the other side, this is defined by the corresponding code. Other connections, such as the combination of an aseptic flange and butt weld spigot, are possible in principle and are each individually defined depending on requirements.

Aseptic flange connection DIN 11864-2-A	Code	
	Rohr	
	DIN	ISO
Grooved aseptic flange on both sides	A1	A4
Loose aseptic flange on both sides	A2	A5
One side grooved aseptic flange , other side loose aseptic flange	A3	A6



Kv value

Kv value

In order to be able to compare the extremely varied geometries, valve designs and nominal sizes of different equipment and valves, they are always tested and measured under the same conditions. As a result of test conditions such as these, a flow rate that is specific to each valve is obtained and this flow rate can also serve as a calculation basis for planning a plant, for example.

The Kvs values stated below are only valid for 2/2-way valves.

Kvs value

The KVS value is the KV value when the valve is fully open (100%). The KVS value (nominal flow coefficient) corresponds to the KV100 value with a tolerance of $\pm 10\%$ (to DIN EN 60534).

Medium: Water (H₂O)

Temperature: 5 to 30 °C

Flow rate: The differential pressure Δp between the pressure input and pressure output side is 1 bar.

Measurement unit: measured in m³/h

Cv value: measured in US gallons per minute, at a differential pressure Δp of 1 PSI with water.

$$1 \text{ Cv} = 1,17 \times \text{Kv}$$

$$1 \text{ Kv} = 0,86 \times \text{Cv}$$

Butt weld spigots according to pipe standard									
Diaphragm size	DN	Size	DIN Code 0 Kvs [m ³ /h]	DIN 11850 Series 1 Code 16 Kvs [m ³ /h]	DIN 11850 Series 2 Code 17 Kvs [m ³ /h]	DIN 11850 Series 3 Code 18 Kvs [m ³ /h]	SMS 3008 Code 37 Kvs [m ³ /h]	ASME BPE Code 59 Kvs [m ³ /h]	EN ISO 1127 Code 60 Kvs [m ³ /h]
MG 8	4	1/8"	0,5	-	-	-	-	-	-
	6	1/6"	1,1	-	-	-	-	-	1,2
	8	1/4"	1,3	-	-	-	-	0,6	2,2
	10	3/8"	-	2,1	2,1	2,1	-	1,3	-
	15	1/2"	-	-	-	-	-	2	-
MG 10	10	3/8"	-	2,4	2,4	2,4	-	2,2	3,3
	15	1/2"	3,3	3,8	3,8	3,8	-	2,2	4
	20	3/4"	-	-	-	-	-	3,8	-
MG 25	15	1/2"	4,1	4,7	4,7	4,7	-	-	7,4
	20	3/4"	6,3	7	7	7	-	4,4	13,2
	25	1"	13,9	15	15	15	12,6	12,2	16,2
MG 40	32	1 1/4"	25,3	27	27	27	26,2	-	30
	40	1 1/2"	29,3	30,9	30,9	30,9	30,2	29,5	32,8
MG 50	50	2"	46,5	48,4	48,4	48,4	51,7	50,6	55,2
MG 80	65	2 1/2"	-	-	77	-	68,5	68,5	96
	80	3"	-	-	111	-	80	87	111
MG 100	100	4"	-	-	194	-	173	188	214

Notes:

For BS 4825 (Code 55) the Kvs values are the same or slightly higher than ASME BPE as the pipe internal diameters are almost identical. For JIS-G 3459 (Code 36) the Kvs values are the same or slightly lower than EN ISO 1127 as the pipe internal diameters are almost identical. Kvs values for clamp connections always refer to the corresponding pipe standard. Kvs values were determined with water at 20°C, P1 = 6bar, P2 = 5bar, EPDM Code 13 diaphragm, tolerance $\pm 10\%$.

Kvs values for PTFE diaphragms may be lower especially at lower operating pressures as the material is stiffer.

The operating pressure influences the Kv value.

Order code - 2/2-way bodies

Order example for 2/2-way bodies (diaphragm size 8) with butt weld spigots:

Type	Nominal size DN 1	Body configuration	Connection DN 1	Valve body material	Nominal size DN 2	Connection DN 2	Additional data
A	B	C	D	E	G	H	K
K601	10	D	17	40			1503



Order example for 2/2-way bodies (diaphragm size 10) with clamp connection and butt weld spigot:

Type	Nominal size DN 1	Body configuration	Connection DN 1	Valve body material	Nominal size DN 2	Connection DN 2	Additional data
A	B	C	D	E	G	H	K
K612	20	D	88	40	20	59	1536



Order example for 2/2-way bodies (from diaphragm size 25) with clamp connections:

Type	Nominal size DN 1	Body configuration	Connection DN 1	Valve body material	Nominal size DN 2	Connection DN 2	Additional data
A	B	C	D	E	G	H	K
K600	25	D	88	40			1507



Angle of rotation for optimum draining

In the pharmaceutical and biotechnological industries and other sensitive industrial sectors the drainability and cleanability of plant plays an important role. Very often plants are cleaned and sterilised after every production process. The objective is to keep the residue as low as possible in order to optimise the sterilisation and cleaning processes of plant and piping systems. In specialist literature and documents from plant constructors and valve manufacturers the term "self-draining" is often used in this context. It is a fictitious term for the independent emptying of a vessel and/or a pipe section through an opened valve. Depending on a variety of factors it is however not normally possible to expect full drainage without leaving residue even with vertical piping. Therefore the term "self-draining" is often used incorrectly. The term "free outlet", "unhindered outlet" or "optimum draining" is more realistic. At GEMÜ we use the term optimum draining.

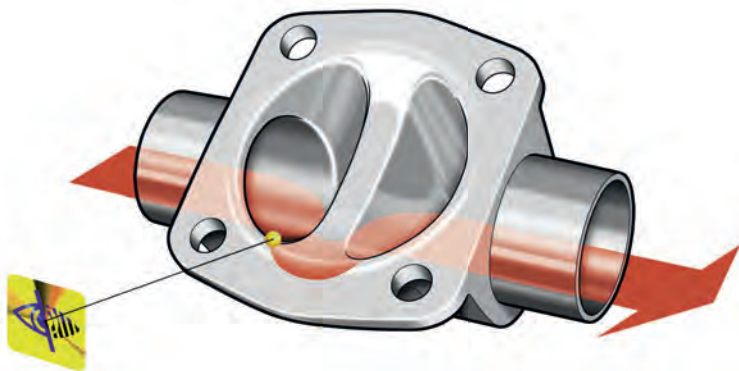
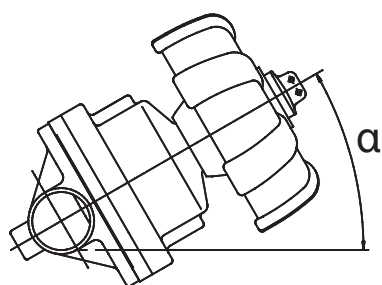
Optimum drainability of a valve depends on several factors::

- Design of the internal geometry of the valve body
- Different pipe standards (ISO, DIN, SMS, ASME BPE, JIS etc.), as they have different inside diameters at the same nominal size
- Installation position in the pipeline with regard to horizontal rotation and vertical inclination
- Viscosity and adhesive qualities of the medium/media

Diaphragm valves offer the best structural conditions for an unhindered outlet of the working medium when the valve is open. In an ideal case, the pipe and the valve are vertical. However, if the pipe is horizontal, the valve must be turned axially in the pipe until the outermost point of the sealing weir corresponds to the lowest point of the connecting pipe. Thus the working medium can optimally flow around the weir. The only way to gain the necessary viewing point to set the rotation angle is to remove the operator (manual bonnet or actuator) prior to installing the valve. Optical alignment is often sufficient – it must be noted, however, that the eyes of the viewer must be in line with the transition of the weir and the lowest point of the pipe. Dependent on the viscosity of the working medium or the required outlet velocity, the pipe runs should have a corresponding gradient (pipe inclination).

GEMÜ has calculated draining angles for the various nominal sizes and pipe standards in order to facilitate installation of valves for optimised draining. The draining angles mentioned are valid for installation in horizontal pipe systems. The GEMÜ angle α is quoted from when the valve is lying on its side with a vertical weirplate and the rotation angle is UPWARDS. Please note the drawing. (Attention: Other manufacturers quote the angle using a horizontal weirplate from the vertical centreline downwards). The draining angles mentioned in this brochure are valid for valve bodies produced in the EU. Please contact your local supplier for further information.

The values of the draining angles are only provided as a guide without tolerances. Drainability in a plant is the responsibility of the plant designer, plant constructor and end user due to factors described previously.



GEMÜ angle gauge

GEMÜ has developed a patented angle gauge to simplify mounting 2/2-way stainless steel diaphragm valve bodies. The angle gauge enables quick and simple determination of the correct mounting position of a diaphragm valve body. The angle gauge is placed on the valve body so that its location spigots engage in the holes intended for actuator fixing. It is then locked by an eccentric cam at one of the location spigots. The flow direction is clearly identified to prevent incorrect positioning. The correct installation angle, dependent on the valve body type, is indicated in the brochure „2/2-Way and T Valve Bodies in Stainless Steel“. The given angle is set on the angle gauge. The valve body is rotated until the spirit is level. Then the body can be installed in the piping. The angle gauge is available for diaphragm sizes MG 8 - 100.

Please use the article numbers listed below when ordering:

Angle gauge for diaphragm size 8: 88278996

Angle gauge for diaphragm size 10: 88277372

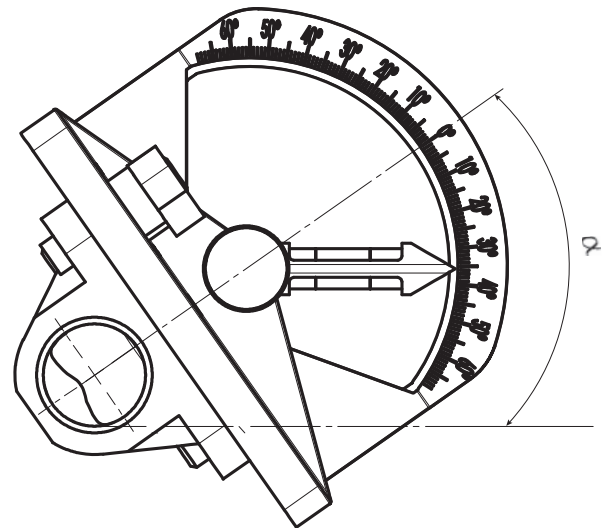
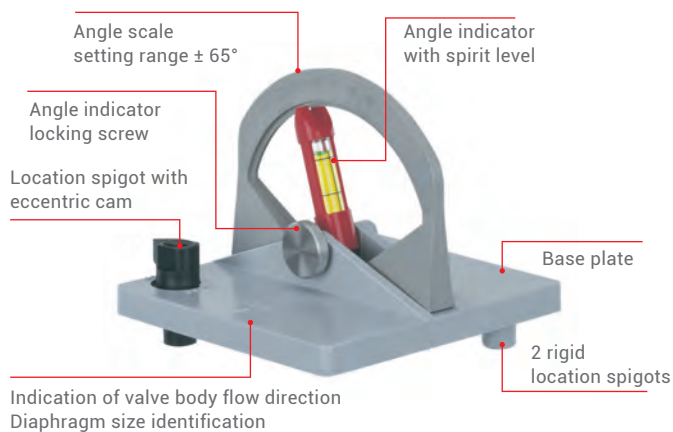
Angle gauge for diaphragm size 25: 88277373

Angle gauge for diaphragm size 40: 88277374

Angle gauge for diaphragm size 50: 88277375

Angle gauge for diaphragm size 80: 88277376

Angle gauge for diaphragm size 100: 88379424



T valve bodies

Description of use

T valve bodies are preferably welded into ring mains with the outlet in a vertical direction. This allows the working medium to be drawn off or fed almost deadleg free.

Features

- EHEDG-certified GEMÜ seal system
- Made from block material, no welds in the media wetted area (i. e. reduction of validation times)
- Compact design, GMP-compliant design
- Grades of surface finish: Internal contour mechanically polished and/or electropolished down to Ra 0.25 µm
- Standard valve body material 1.4435 (316L), other materials on request
- Standard connections are butt weld spigots, clamps and sterile connections, other connections on request
- Available with manual, pneumatic or motorized operators



T valve bodies

Material selection

Connections	Code
Butt weld spigots DIN	0
Butt weld spigots DIN 11850, Series 1	16
Butt weld spigots DIN 11850, Series 2	17
Butt weld spigots DIN 11866, Series A	1A
Butt weld spigots DIN 11866, Series B	1B
Butt weld spigots JIS-G 3447	35
Butt weld spigots JIS-G 3459	36
Butt weld spigots SMS 3008	37
Butt weld spigots ASME BPE	59
Butt weld spigots EN ISO 1127	60

Investment casting		
Material code	32	1.4435 (BN2) Fe<0,5%
	34	1.4435 (ASTM A 351 CF3M)*

* Material equivalency 316 L

Block material		
Material code	41	1.4435 (316L)
	43	1.4435 (BN2) Fe<0,5%

Main pipe* DN 2 (mm)	Branch* DN 1 (mm)	Diaphragm size	For valve types
6 - 25	4 - 15	8	Specifications see brochure "Stainless Steel Diaphragm Valves"
10 - 65	4 - 20	10	
15 - 100	4 - 25	25	
32 - 150	32 - 40	40	
50 - 150	50	50	
65 - 150	65 - 80	80	
100 - 150	100	100	

* More combinations main pipe-branch possible on request



T valve bodies

Grades of surface finish

Valve body surface finish, internal contour			
	Forged body - Codes 40, 42 Block material - Codes 41, 43	Investment casting Codes 32, 34	Code
Ra ≤ 0.8 µm, mechanically polished internal, blasted external	X	X	1502
Ra ≤ 0.8 µm, electropolished internal/external	X	-	1503
Ra ≤ 0.6 µm, mechanically polished internal, blasted external	X ¹	X ¹	1507
Ra ≤ 0.6 µm, electropolished internal/external	X ¹	-	1508
Ra ≤ 0.4 µm, mechanically polished internal, blasted external	X ¹	-	1536
Ra ≤ 0.4 µm, electropolished internal/external	X ¹	-	1537
Ra ≤ 0.25 µm, mechanically polished internal, blasted external	X ¹	-	1527
Ra ≤ 0.25 µm, electropolished internal/external	X ¹	-	1516

Ra acc. to DIN 4768; at defined reference points. Surface finish data refers to media wetted surfaces.

¹ Not possible for connections DN 8 code 55 and 59, DN 4 code 0 and all other connections Ø < 6 mm.

	GEMÜ Germany		GEMÜ US	DIN 11866	ASME BPE (2014)		
Code	Ra µm	Ra _{max} µinch	Hygienic class	Ra µm	Designation	Ra _{max} µinch	Ra µm - onverted
1502	≤ 0,8	30	H3	≤ 0,8	SF3	30	0,76
1503	≤ 0,8	30	HE3c	≤ 0,8	-	-	-
1508	≤ 0,6	25	-	-	SF6	25	0,64
1507	≤ 0,6	25	-	-	SF2	25	0,64
1537	≤ 0,4	20	HE4c	≤ 0,4	SF5	20	0,51
1536	≤ 0,4	20	H4	≤ 0,4	SF1	20	0,51
1527	≤ 0,25	15	H5	≤ 0,25	-	-	-
1516	≤ 0,25	15	HE5c	≤ 0,25	SF4	15	0,38

T valve bodies for sampling

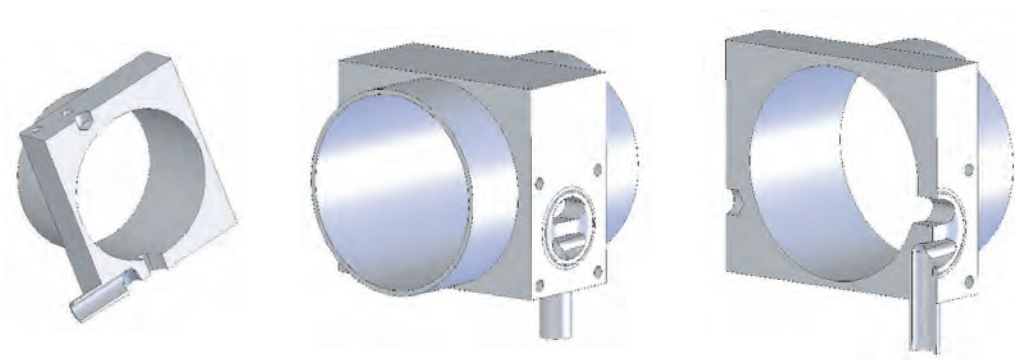
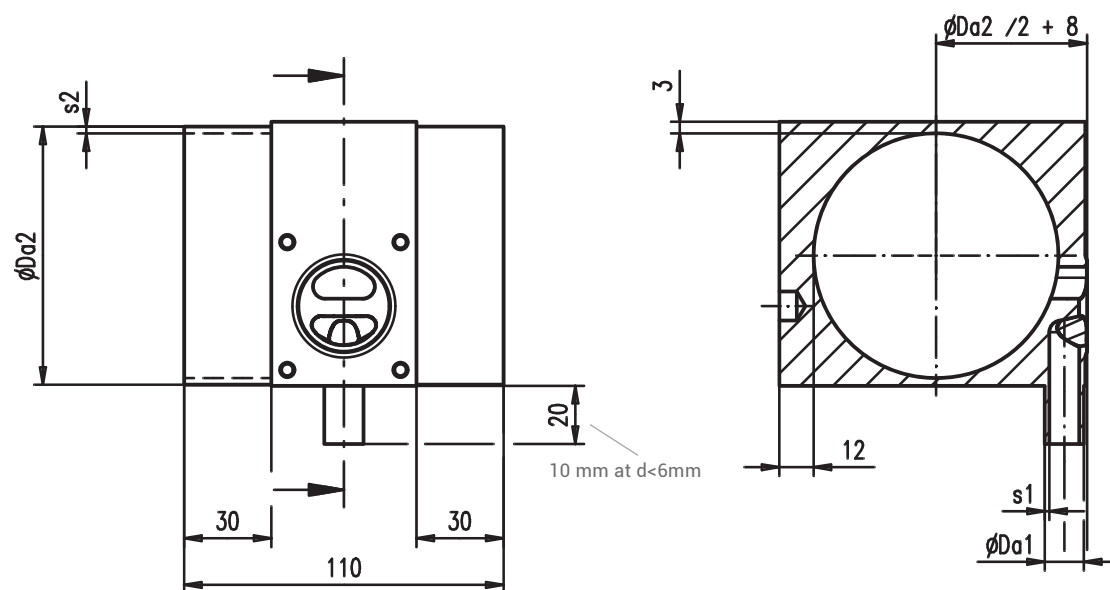
Body version "A"

This particular design is used to take samples from large ring mains ($\geq$ DN 50). A very good deadleg ratio is achieved as a result of the optimized contour. In comparison to the ring main cross section, the outlet branch has a small nominal size ($\leq$ DN 15) and is provided with a diaphragm valve with a diaphragm size of 8 or 10.

Features

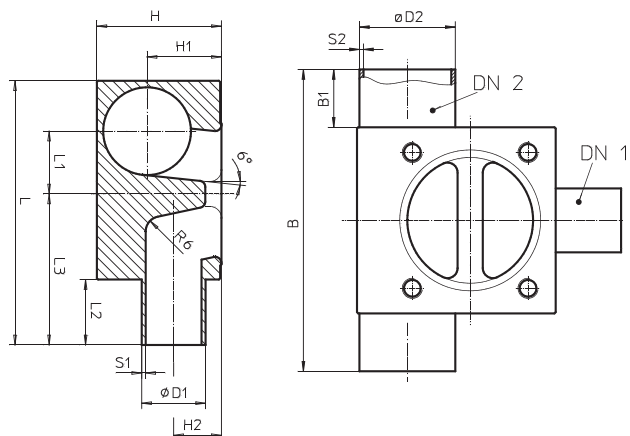
- Cavity fully shaped, deadleg ratio $< 1 \times D$
- Compact design
- Optimal draining if installed at an angle

Dimension example for diaphragm size 10



T valve bodies

for EN ISO 1127 pipes , DN 6 - DN 150



Valve body material	Code
1.4435 (BN2) Fe<0,5%	32
1.4435 (ASTM A 351 CF3M)*	34
1.4435 (316L/F316L)	41
1.4435 (BN2) Fe<0,5%	43

* Material equivalency 316 L
Special materials on request

The valve body dimensions for your order are clearly defined by specification of the codes in the fields with a coloured background in the given sequence.

Note:

Dimensions code 32 = dimensions code 34

Dimensions code 41 = dimensions code 43

Dimensions																			
DN 2	Code 2 ¹	DN 1	Code 1 ¹	MG ²	WKZ ³	D1 (mm)	S1 (mm)	D2 (mm)	S2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	H (mm)	H1 (mm)	H2 (mm)	B (mm)	B1 (mm)	G ⁴ (kg)
6	60	6	60	8	41	10.2	1.6	10.2	1.6	52.5	7.6	20.0	36.5	18.0	10.4	8.5	72.0	20.0	0.1
8	60	6	60	8	41	10.2	1.6	13.5	1.6	53.0	8.2	20.0	36.5	21.0	12.1	8.5	72.0	20.0	0.2
8	60	8	60	8	41	13.5	1.6	13.5	1.6	53.0	8.2	20.0	36.5	21.0	12.1	8.5	72.0	20.0	0.2
10	60	6	60	8	41	10.2	1.6	17.2	1.6	57.0	10.3	20.0	36.5	25.0	13.9	8.5	72.0	20.0	0.2
10	60	8	60	8	41	13.5	1.6	17.2	1.6	57.0	10.3	20.0	36.5	25.0	13.9	8.5	72.0	20.0	0.2
10	60	10	60	10	41	17.2	1.6	17.2	1.6	76.0	11.0	20.0	48.5	27.0	16.2	12.5	90.0	20.0	0.5
15	60	6	60	8	41	10.2	1.6	21.3	1.6	62.0	12.6	20.0	36.5	29.0	16.0	8.5	72.0	20.0	0.3
15	60	8	60	8	41	13.5	1.6	21.3	1.6	62.0	12.6	20.0	36.5	29.0	16.0	8.5	72.0	20.0	0.3
15	60	10	60	10	41	17.2	1.6	21.3	1.6	76.0	13.2	20.0	48.5	31.0	18.3	12.5	90.0	20.0	0.6
15	60	15	60	10	41	21.3	1.6	21.3	1.6	76.0	13.2	20.0	48.5	31.0	18.3	12.5	90.0	20.0	0.6
15	60	15	60	25	41	21.3	1.6	21.3	1.6	88.0	18.1	20.0	54.0	34.0	21.5	19.0	114.0	20.0	1.1
20	60	6	60	8	41	10.2	1.6	26.9	1.6	68.0	15.7	20.0	36.5	34.0	18.8	8.5	82.0	25.0	0.3
20	60	8	60	8	41	13.5	1.6	26.9	1.6	68.0	15.7	20.0	36.5	34.0	18.8	8.5	82.0	25.0	0.3
20	60	10	60	10	41	17.2	1.6	26.9	1.6	80.0	16.3	20.0	48.5	36.0	21.1	12.5	100.0	25.0	0.7
20	60	15	60	10	41	21.3	1.6	26.9	1.6	80.0	16.3	20.0	48.5	37.0	21.1	12.5	100.0	25.0	0.7
20	60	15	60	25	41	21.3	1.6	26.9	1.6	88.0	18.8	20.0	54.0	40.0	24.3	19.0	124.0	25.0	1.2
20	60	20	60	25	41	26.9	1.6	26.9	1.6	93.0	18.8	25.0	59.0	40.0	24.3	19.0	124.0	25.0	1.2
25	60	6	60	8	41	10.2	1.6	33.7	2.0	74.0	19.0	20.0	36.5	41.0	22.2	8.5	82.0	25.0	0.5
25	60	8	60	8	41	13.5	1.6	33.7	2.0	74.0	19.0	20.0	36.5	41.0	22.2	8.5	82.0	25.0	0.5
25	60	10	60	10	41	17.2	1.6	33.7	2.0	87.0	19.7	20.0	48.5	43.0	24.5	12.5	100.0	25.0	0.9
25	60	15	60	10	41	21.3	1.6	33.7	2.0	87.0	19.7	20.0	48.5	43.0	24.5	12.5	100.0	25.0	0.9
25	60	15	60	25	41	21.3	1.6	33.7	2.0	95.0	22.2	20.0	54.0	47.0	27.7	19.0	124.0	25.0	1.5

Other combinations on request

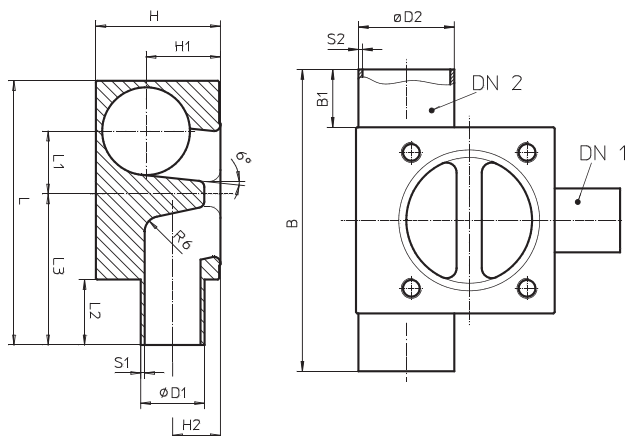
¹ see Butt weld spigots table on page 7, ² MG = diaphragm size, ³ WKZ = valve body material code, ⁴ G = valve body weight.

Note: Dimensions for code 1B (DIN 11864 series B) correspond to code 60.

Continued on the next page

T valve bodies

for EN ISO 1127 pipes , DN 6 - DN 150



Valve body material	Code
1.4435 (BN2) Fe<0,5%	32
1.4435 (ASTM A 351 CF3M)*	34
1.4435 (316L/F316L)	41
1.4435 (BN2) Fe<0,5%	43

* Material equivalency 316 L
Special materials on request

The valve body dimensions for your order are clearly defined by specification of the codes in the fields with a coloured background in the given sequence.

Note:

Dimensions code 32 = dimensions code 34

Dimensions code 41 = dimensions code 43

Dimensions																			
DN 2	Code 2 ¹	DN 1	Code 1 ¹	MG ²	WKZ ³	D1 (mm)	S1 (mm)	D2 (mm)	S2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	H (mm)	H1 (mm)	H2 (mm)	B (mm)	B1 (mm)	G ⁴ (kg)
25	60	20	60	25	41	26.9	1.6	33.7	2.0	100.0	22.2	25.0	59.0	46.0	27.7	19.0	124.0	25.0	1.5
25	60	25	60	25	41	33.7	2.0	33.7	2.0	100.0	22.2	25.0	59.0	46.0	27.7	19.0	124.0	25.0	1.5
32	60	8	60	10	41	13.5	1.6	42.4	2.0	96.0	24.5	20.0	48.5	52.0	28.8	12.5	100.0	25.0	1.2
32	60	10	60	10	41	17.2	1.6	42.4	2.0	96.0	24.5	20.0	48.5	52.0	28.8	12.5	100.0	25.0	1.2
32	60	15	60	10	41	21.3	1.6	42.4	2.0	96.0	24.5	20.0	48.5	52.0	28.8	12.5	100.0	25.0	1.2
32	60	15	60	25	41	21.3	1.6	42.4	2.0	104.0	27.0	20.0	54.0	55.0	32.0	19.0	124.0	25.0	2.0
32	60	20	60	25	41	26.9	1.6	42.4	2.0	109.0	27.0	25.0	59.0	55.0	32.0	19.0	124.0	25.0	1.9
32	60	25	60	25	41	33.7	2.0	42.4	2.0	109.0	27.0	25.0	59.0	55.0	32.0	19.0	124.0	25.0	1.9
32	60	32	60	40	41	42.4	2.0	42.4	2.0	123.0	29.1	25.0	71.0	58.0	35.0	26.0	152.0	25.0	3.2
40	60	8	60	10	41	13.5	1.6	48.3	2.0	102.0	27.8	20.0	48.5	58.0	31.8	12.5	100.0	25.0	1.4
40	60	10	60	10	41	17.2	1.6	48.3	2.0	102.0	27.8	20.0	48.5	58.0	31.8	12.5	100.0	25.0	1.4
40	60	15	60	10	41	21.3	1.6	48.3	2.0	102.0	27.8	20.0	48.5	58.0	31.8	12.5	100.0	25.0	1.3
40	60	15	60	25	41	21.3	1.6	48.3	2.0	110.0	30.3	20.0	54.0	61.0	35.0	19.0	124.0	25.0	2.3
40	60	20	60	25	41	26.9	1.6	48.3	2.0	115.0	30.3	25.0	59.0	61.0	35.0	19.0	124.0	25.0	2.2
40	60	25	60	25	41	33.7	2.0	48.3	2.0	115.0	30.3	25.0	59.0	61.0	35.0	19.0	124.0	25.0	2.2
40	60	32	60	40	41	42.4	2.0	48.3	2.0	130.0	32.4	25.0	71.0	64.0	38.0	26.0	152.0	25.0	3.8
40	60	40	60	40	41	48.3	2.0	48.3	2.0	130.0	32.4	25.0	71.0	64.0	38.0	26.0	152.0	25.0	3.7
50	60	8	60	10	41	13.5	1.6	60.3	2.0	115.0	34.5	20.0	48.5	70.0	37.8	12.5	110.0	30.0	1.8
50	60	10	60	10	41	17.2	1.6	60.3	2.0	115.0	34.5	20.0	48.5	70.0	37.8	12.5	110.0	30.0	1.8
50	60	15	60	10	41	21.3	1.6	60.3	2.0	115.0	34.5	20.0	48.5	70.0	37.8	12.5	110.0	30.0	1.8
50	60	15	60	25	41	21.3	1.6	60.3	2.0	123.0	36.9	20.0	54.0	73.0	41.0	19.0	134.0	30.0	3.0
50	60	20	60	25	41	26.9	1.6	60.3	2.0	128.0	36.9	25.0	59.0	73.0	41.0	19.0	134.0	30.0	2.9
50	60	25	60	25	41	33.7	2.0	60.3	2.0	128.0	36.9	25.0	59.0	73.0	41.0	19.0	134.0	30.0	2.9

Other combinations on request

¹ see Butt weld spigots table on page 7, ² MG = diaphragm size, ³ WKZ = valve body material code, ⁴ G = valve body weight.

* Attention: The external geometry does not correspond to the drawing shown.

Note: Dimensions for code 1B (DIN 11864 series B) correspond to code 60.

Continued on the next page

Dimensions																			
DN 2	Code 2 ¹	DN 1	Code 1 ¹	MG ²	WKZ ³	D1 (mm)	S1 (mm)	D2 (mm)	S2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	H (mm)	H1 (mm)	H2 (mm)	B (mm)	B1 (mm)	G ⁴ (kg)
50	60	32	60	40	41	42.4	2.0	60.3	2.0	142.0	39.1	25.0	71.0	76.0	44.0	26.0	162.0	30.0	4.8
50	60	40	60	40	41	48.3	2.0	60.3	2.0	142.0	39.1	25.0	71.0	76.0	44.0	26.0	162.0	30.0	4.7
50	60	50	60	50	41	60.3	2.0	60.3	2.0	158.0	38.7	30.0	86.5	79.0	46.0	32.0	184.0	30.0	6.3
65	60	8	60	10	41	13.5	1.6	76.1	2.0	132.0	43.3	20.0	48.5	86.0	45.7	12.5	110.0	30.0	2.4
65	60	10	60	10	41	17.2	1.6	76.1	2.0	132.0	43.3	20.0	48.5	86.0	45.7	12.5	110.0	30.0	2.4
65	60	15	60	10	41	21.3	1.6	76.1	2.0	132.0	43.3	20.0	48.5	86.0	45.7	12.5	110.0	30.0	2.4
65	60	15	60	25	41	21.3	1.6	76.1	2.0	140.0	45.7	20.0	54.0	89.0	48.9	19.0	134.0	30.0	4.0
65	60	20	60	25	41	26.9	1.6	76.1	2.0	145.0	45.7	25.0	59.0	89.0	48.9	19.0	134.0	30.0	3.9
65	60	25	60	25	41	33.7	2.0	76.1	2.0	145.0	45.7	25.0	59.0	89.0	48.9	19.0	134.0	30.0	3.9
65	60	32	60	40	41	42.4	2.0	76.1	2.0	159.0	47.8	25.0	71.0	92.0	51.9	26.0	162.0	30.0	6.4
65	60	40	60	40	41	48.3	2.0	76.1	2.0	159.0	47.8	25.0	71.0	92.0	51.9	26.0	162.0	30.0	6.3
65	60	50	60	50	41	60.3	2.0	76.1	2.0	175.0	47.5	30.0	86.5	94.0	53.9	32.0	184.0	30.0	8.2
65	60	65	60	80	41	76.1	2.0	76.1	2.0	201.0	50.4	30.0	110.0	103.0	61.8	62.0	250.0	30.0	16.7
80	60	8	60	25	41	13.5	1.6	88.9	2.3	153.0	52.5	20.0	54.0	102.0	55.3	19.0	134.0	30.0	4.9
80	60	10	60	25	41	17.2	1.6	88.9	2.3	153.0	52.5	20.0	54.0	102.0	55.3	19.0	134.0	30.0	4.9
80	60	15	60	25	41	21.3	1.6	88.9	2.3	153.0	52.5	20.0	54.0	102.0	55.3	19.0	134.0	30.0	4.9
80	60	20	60	25	41	26.9	1.6	88.9	2.3	158.0	52.5	25.0	59.0	102.0	55.3	19.0	134.0	30.0	4.8
80	60	25	60	25	41	33.7	2.0	88.9	2.3	158.0	52.5	25.0	59.0	102.0	55.3	19.0	134.0	30.0	4.8
80	60	32	60	40	41	42.4	2.0	88.9	2.3	172.0	54.6	25.0	71.0	105.0	58.3	26.0	162.0	30.0	7.8
80	60	40	60	40	41	48.3	2.0	88.9	2.3	172.0	54.6	25.0	71.0	105.0	58.3	26.0	162.0	30.0	7.7
80	60	50	60	50	41	60.3	2.0	88.9	2.3	188.0	54.3	30.0	86.5	107.0	60.3	32.0	184.0	30.0	10.1
80	60	65	60	80	41	76.1	2.0	88.9	2.3	214.0	57.2	30.0	110.0	115.0	68.2	62.0	250.0	30.0	19.9
80	60	80	60	80	41	88.9	2.3	88.9	2.3	214.0	57.2	30.0	110.0	115.0	68.2	62.0	250.0	30.0	18.9
100	60	8	60	25	41	13.5	1.6	114.3	2.3	180.0	66.6	20.0	54.0	127.0	68.0	19.0	134.0	30.0	6.7
100	60	10	60	25	41	17.2	1.6	114.3	2.3	180.0	66.6	20.0	54.0	127.0	68.0	19.0	134.0	30.0	6.7
100	60	15	60	25	41	21.3	1.6	114.3	2.3	180.0	66.6	20.0	54.0	127.0	68.0	19.0	134.0	30.0	6.7
100	60	20	60	25	41	26.9	1.6	114.3	2.3	185.0	66.6	25.0	59.0	127.0	68.0	19.0	134.0	30.0	6.6
100	60	25	60	25	41	33.7	2.0	114.3	2.3	185.0	66.6	25.0	59.0	127.0	68.0	19.0	134.0	30.0	6.6
100	60	32	60	40	41	42.4	2.0	114.3	2.3	199.0	68.7	25.0	71.0	130.0	71.0	26.0	162.0	30.0	10.6
100	60	40	60	40	41	48.3	2.0	114.3	2.3	199.0	68.7	25.0	71.0	130.0	71.0	26.0	162.0	30.0	10.4
100	60	50	60	50	41	60.3	2.0	114.3	2.3	215.0	68.4	30.0	86.5	133.0	73.0	32.0	184.0	30.0	14.0
100	60	65	60	80	41	76.1	2.0	114.3	2.3	241.0	71.3	30.0	110.0	140.0	80.9	62.0	250.0	30.0	26.8
100	60	80	60	80	41	88.9	2.3	114.3	2.3	241.0	71.3	30.0	110.0	140.0	80.9	62.0	250.0	30.0	25.9
100	60	100	60	100	41	114.3	2.3	114.3	2.3	279.0	73.1	30.0	146.0	135.0	75.2	75.2	292.0	30.0	33.1
125	60	32	60	40	41	42.4	2.0	139.7	2.6	225.0	82.5	25.0	71.0	156.0	83.7	26.0	162.0	30.0	13.8
125	60	40	60	40	41	48.3	2.0	139.7	2.6	225.0	82.5	25.0	71.0	156.0	83.7	26.0	162.0	30.0	13.7
125	60	50	60	50	41	60.3	2.0	139.7	2.6	241.0	82.2	30.0	86.5	158.0	85.7	32.0	184.0	30.0	18.0
125	60	65	60	80	41	76.1	2.0	139.7	2.6	267.0	85.1	30.0	110.0	166.0	93.6	62.0	250.0	30.0	34.6
125	60	80	60	80	41	88.9	2.3	139.7	2.6	267.0	85.1	30.0	110.0	166.0	93.6	62.0	250.0	30.0	33.7
125	60	100	60	100	41	114.3	2.3	139.7	2.6	305.0	86.9	30.0	146.0	160.0	87.9	75.2	292.0	30.0	43.7
150	60	32	60	40	41	42.4	2.0	168.3	2.6	256.0	98.4	25.0	71.0	184.0	98.0	26.0	162.0	30.0	17.7
150	60	40	60	40	41	48.3	2.0	168.3	2.6	256.0	98.4	25.0	71.0	184.0	98.0	26.0	162.0	30.0	17.6
150	60	50	60	50	41	60.3	2.0	168.3	2.6	271.0	98.1	30.0	86.5	187.0	100.0	32.0	184.0	30.0	23.2
150	60	65	60	80	41	76.1	2.0	168.3	2.6	298.0	101.0	30.0	110.0	194.0	107.9	62.0	250.0	30.0	43.8
150	60	80	60	80	41	88.9	2.3	168.3	2.6	298.0	101.0	30.0	110.0	194.0	107.9	62.0	250.0	30.0	42.9
150	60	100	60	100	41	114.3	2.3	168.3	2.6	335.0	102.8	30.0	146.0	189.0	102.2	75.2	292.0	30.0	56.7

Other combinations on request

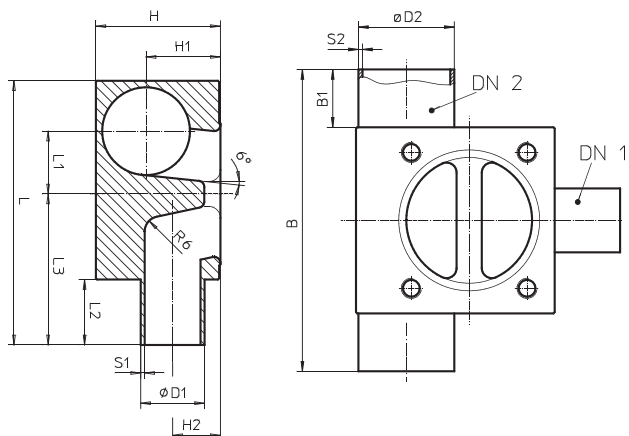
¹ see Butt weld spigots table on page 7, ² MG = diaphragm size, ³ WKZ = valve body material code, ⁴ G = valve body weight.

* Attention: The external geometry does not correspond to the drawing shown.

Note: Dimensions for code 1B (DIN 11864 series B) correspond to code 60.

T valve bodies

for DIN pipes, DN 6 - DN 150



Valve body material	Code
1.4435 (BN2) Fe<0,5%	32
1.4435 (ASTM A 351 CF3M)*	34
1.4435 (316L/F316L)	41
1.4435 (BN2) Fe<0,5%	43

* Material equivalency 316 L
Special materials on request

The valve body dimensions for your order are clearly defined by specification of the codes in the fields with a coloured background in the given sequence.

Note:

Dimensions code 32 = dimensions code 34

Dimensions code 41 = dimensions code 43

Dimensions																			
DN 2	Code 2 ¹	DN 1	Code 1 ¹	MG ²	WKZ ³	D1 (mm)	S1 (mm)	D2 (mm)	S2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	H (mm)	H1 (mm)	H2 (mm)	B (mm)	B1 (mm)	G ⁴ (kg)
6	0	4	0	8	41	6.0	1.0	8.0	1.0	42.5	7.9	10.0	26.5	15.0	9.3	8.5	72.0	20.0	0.1
6	0	6	0	8	41	8.0	1.0	8.0	1.0	52.5	7.9	20.0	36.5	15.0	9.3	8.5	72.0	20.0	0.1
8	0	4	0	8	41	6.0	1.0	10.0	1.0	42.5	8.0	10.0	26.5	17.0	10.3	8.5	72.0	20.0	0.1
8	0	6	0	8	41	8.0	1.0	10.0	1.0	52.5	8.0	20.0	36.5	17.0	10.3	8.5	72.0	20.0	0.1
8	0	8	0	8	41	10.0	1.0	10.0	1.0	52.5	8.0	20.0	36.5	17.0	10.3	8.5	72.0	20.0	0.1
10	16	4	0	8	41	6.0	1.0	12.0	1.0	42.5	8.0	10.0	26.5	19.0	11.3	8.5	72.0	20.0	0.1
10	17	4	0	8	41	6.0	1.0	13.0	1.5	43.0	8.0	10.0	26.5	20.0	11.8	8.5	72.0	20.0	0.2
10	16	6	0	8	41	8.0	1.0	12.0	1.0	52.5	8.0	20.0	36.5	19.0	11.3	8.5	72.0	20.0	0.1
10	17	6	0	8	41	8.0	1.0	13.0	1.5	53.0	8.0	20.0	36.5	20.0	11.8	8.5	72.0	20.0	0.2
10	17	8	0	8	41	10.0	1.0	13.0	1.5	53.0	8.0	20.0	36.5	20.0	11.8	8.5	72.0	20.0	0.2
10	16	8	0	8	41	10.0	1.0	12.0	1.0	52.5	8.0	20.0	36.5	19.0	11.3	8.5	72.0	20.0	0.1
10	16	10	16	8	41	12.0	1.0	12.0	1.0	52.5	8.0	20.0	36.5	19.0	11.3	8.5	72.0	20.0	0.1
10	17	10	17	8	41	13.0	1.5	13.0	1.5	53.0	8.0	20.0	36.5	20.0	11.8	8.5	72.0	20.0	0.2
10	16	10	16	8	34*	12.0	1.0	12.0	1.0	52.0	8.5	20.0	36.0	21.0	14.0	8.5	72.0	20.0	0.2
10	17	10	17	8	34*	13.0	1.5	13.0	1.5	52.0	8.5	20.0	36.0	21.0	14.0	8.5	72.0	20.0	0.2
15	17	4	0	8	41	6.0	1.0	19.0	1.5	49.0	11.4	10.0	26.5	26.0	14.8	8.5	72.0	20.0	0.2
15	17	6	0	8	41	8.0	1.0	19.0	1.5	59.0	11.4	20.0	36.5	26.0	14.8	8.5	72.0	20.0	0.2
15	17	8	0	8	41	10.0	1.0	19.0	1.5	59.0	11.4	20.0	36.5	26.0	14.8	8.5	72.0	20.0	0.2
15	17	10	17	8	41	13.0	1.5	19.0	1.5	59.0	11.4	20.0	36.5	26.0	14.8	8.5	72.0	20.0	0.2
15	16	10	16	8	41	12.0	1.0	18.0	1.0	59.0	11.3	20.0	36.5	25.0	14.3	8.5	72.0	20.0	0.2
15	17	10	16	8	41	12.0	1.0	19.0	1.5	59.0	11.4	20.0	36.5	26.0	14.8	8.5	72.0	20.0	0.2
15	17	15	17	10	41	19.0	1.5	19.0	1.5	76.0	12.1	20.0	48.5	29.0	17.1	12.5	90.0	20.0	0.5
15	17	15	17	25	41	19.0	1.5	19.0	1.5	88.0	21.1	20.0	54.0	32.0	20.3	19.0	114.0	20.0	1.0
20	17	4	0	8	41	6.0	1.0	23.0	1.5	54.0	13.6	10.0	26.5	30.0	16.8	8.5	82.0	25.0	0.3

Other combinations on request

¹ see Butt weld spigots table on page 7. ² MG = diaphragm size. ³ WKZ = valve body material code. ⁴ G = valve body weight.

* Attention: The external geometry does not correspond to the drawing shown.

Continued on the next page

Dimensions																			
DN 2	Code 2 ¹	DN 1	Code 1 ¹	MG ²	WKZ ³	D1 (mm)	S1 (mm)	D2 (mm)	S2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	H (mm)	H1 (mm)	H2 (mm)	B (mm)	B1 (mm)	G ⁴ (kg)
20	17	6	0	8	41	8.0	1.0	23.0	1.5	64.0	13.6	20.0	36.5	30.0	16.8	8.5	82.0	25.0	0.3
20	17	8	0	8	41	10.0	1.0	23.0	1.5	64.0	13.6	20.0	36.5	30.0	16.8	8.5	82.0	25.0	0.3
20	17	10	16	8	41	12.0	1.0	23.0	1.5	64.0	13.6	20.0	36.5	30.0	16.8	8.5	82.0	25.0	0.3
20	17	10	17	8	41	13.0	1.5	23.0	1.5	64.0	13.6	20.0	36.5	30.0	16.8	8.5	82.0	25.0	0.3
20	17	15	17	10	41	19.0	1.5	23.0	1.5	76.0	14.3	20.0	48.5	33.0	19.1	12.5	100.0	25.0	0.6
20	17	15	17	25	41	19.0	1.5	23.0	1.5	89.0	21.3	20.0	54.0	36.0	22.3	19.0	124.0	25.0	1.2
20	17	20	17	25	41	23.0	1.5	23.0	1.5	94.0	21.3	25.0	59.0	36.0	22.3	19.0	124.0	25.0	1.1
25	17	4	0	8	41	6.0	1.0	29.0	1.5	60.0	16.9	10.0	26.5	36.0	19.8	8.5	82.0	25.0	0.4
25	17	6	0	8	41	8.0	1.0	29.0	1.5	70.0	16.9	20.0	36.5	36.0	19.8	8.5	82.0	25.0	0.4
25	17	8	0	8	41	10.0	1.0	29.0	1.5	70.0	16.9	20.0	36.5	36.0	19.8	8.5	82.0	25.0	0.4
25	17	10	16	8	41	12.0	1.0	29.0	1.5	70.0	16.9	20.0	36.5	36.0	19.8	8.5	82.0	25.0	0.4
25	17	10	17	8	41	13.0	1.5	29.0	1.5	70.0	16.9	20.0	36.5	36.0	19.8	8.5	82.0	25.0	0.4
25	17	15	17	10	41	19.0	1.5	29.0	1.5	83.0	17.6	20.0	48.5	39.0	22.1	12.5	100.0	25.0	0.8
25	17	15	17	25	41	19.0	1.5	29.0	1.5	91.0	20.1	20.0	54.0	42.0	25.3	19.0	124.0	25.0	1.3
25	17	20	17	25	41	23.0	1.5	29.0	1.5	96.0	20.1	25.0	59.0	42.0	25.3	19.0	124.0	25.0	1.3
25	17	25	17	25	41	29.0	1.5	29.0	1.5	96.0	20.1	25.0	59.0	42.0	25.3	19.0	124.0	25.0	1.3
32	17	4	0	10	41	6.0	1.0	35.0	1.5	79.0	20.9	10.0	38.5	45.0	25.1	12.5	100.0	25.0	1.0
32	17	6	0	10	41	8.0	1.0	35.0	1.5	89.0	20.9	20.0	48.5	45.0	25.1	12.5	100.0	25.0	1.0
32	17	8	0	10	41	10.0	1.0	35.0	1.5	89.0	20.9	20.0	48.5	45.0	25.1	12.5	100.0	25.0	1.0
32	17	10	17	10	41	13.0	1.5	35.0	1.5	89.0	20.9	20.0	48.5	45.0	25.1	12.5	100.0	25.0	1.0
32	17	10	16	10	41	12.0	1.0	35.0	1.5	89.0	20.9	20.0	48.5	45.0	25.1	12.5	100.0	25.0	1.0
32	17	15	17	10	41	19.0	1.5	35.0	1.5	89.0	20.9	20.0	48.5	45.0	25.1	12.5	100.0	25.0	0.9
32	17	15	17	25	41	19.0	1.5	35.0	1.5	97.0	23.4	20.0	54.0	48.0	28.3	19.0	124.0	25.0	1.6
32	17	20	17	25	41	23.0	1.5	35.0	1.5	102.0	23.4	25.0	59.0	48.0	28.3	19.0	124.0	25.0	1.6
32	17	25	17	25	41	29.0	1.5	35.0	1.5	102.0	23.4	25.0	59.0	48.0	28.3	19.0	124.0	25.0	1.5
32	17	32	17	40	41	35.0	1.5	35.0	1.5	117.0	25.5	25.0	71.0	51.0	31.3	26.0	152.0	25.0	2.8
40	17	4	0	10	41	6.0	1.0	41.0	1.5	85.0	24.3	10.0	38.5	51.0	28.1	12.5	100.0	25.0	1.1
40	17	6	0	10	41	8.0	1.0	41.0	1.5	95.0	24.3	20.0	48.5	51.0	28.1	12.5	100.0	25.0	1.1
40	17	8	0	10	41	10.0	1.0	41.0	1.5	95.0	24.3	20.0	48.5	51.0	28.1	12.5	100.0	25.0	1.1
40	17	10	17	10	41	13.0	1.5	41.0	1.5	95.0	24.3	20.0	48.5	51.0	28.1	12.5	100.0	25.0	1.1
40	17	10	16	10	41	12.0	1.0	41.0	1.5	95.0	24.3	20.0	48.5	51.0	28.1	12.5	100.0	25.0	1.1
40	17	15	17	10	41	19.0	1.5	41.0	1.5	95.0	24.3	20.0	48.5	51.0	28.1	12.5	100.0	25.0	1.1
40	17	15	17	25	41	19.0	1.5	41.0	1.5	103.0	26.7	20.0	54.0	54.0	31.3	19.0	124.0	25.0	1.9
40	17	20	17	25	41	23.0	1.5	41.0	1.5	108.0	26.7	25.0	59.0	54.0	31.3	19.0	124.0	25.0	1.9
40	17	25	17	25	41	29.0	1.5	41.0	1.5	108.0	26.7	25.0	59.0	54.0	31.3	19.0	124.0	25.0	1.8
40	17	32	17	40	41	35.0	1.5	41.0	1.5	122.0	28.8	25.0	71.0	57.0	34.3	26.0	152.0	25.0	3.2
40	17	40	17	40	41	41.0	1.5	41.0	1.5	122.0	28.8	25.0	71.0	57.0	34.3	26.0	152.0	25.0	3.1
50	17	4	0	10	41	6.0	1.0	53.0	1.5	98.0	30.9	10.0	38.5	63.0	34.1	12.5	110.0	30.0	1.5
50	17	6	0	10	41	8.0	1.0	53.0	1.5	108.0	30.9	20.0	48.5	63.0	34.1	12.5	110.0	30.0	1.5
50	17	8	0	10	41	10.0	1.0	53.0	1.5	108.0	30.9	20.0	48.5	63.0	34.1	12.5	110.0	30.0	1.5
50	17	10	17	10	41	13.0	1.5	53.0	1.5	108.0	30.9	20.0	48.5	63.0	34.1	12.5	110.0	30.0	1.5
50	17	10	16	10	41	12.0	1.0	53.0	1.5	108.0	30.9	20.0	48.5	63.0	34.1	12.5	110.0	30.0	1.5
50	17	15	17	10	41	19.0	1.5	53.0	1.5	108.0	30.9	20.0	48.5	63.0	34.1	12.5	110.0	30.0	1.5
50	17	15	17	25	41	19.0	1.5	53.0	1.5	116.0	33.4	20.0	54.0	66.0	37.3	19.0	134.0	30.0	2.6
50	17	20	17	25	41	23.0	1.5	53.0	1.5	121.0	33.4	25.0	59.0	66.0	37.3	19.0	134.0	30.0	2.5
50	17	25	17	25	41	29.0	1.5	53.0	1.5	121.0	33.4	25.0	59.0	66.0	37.3	19.0	134.0	30.0	2.5

Other combinations on request

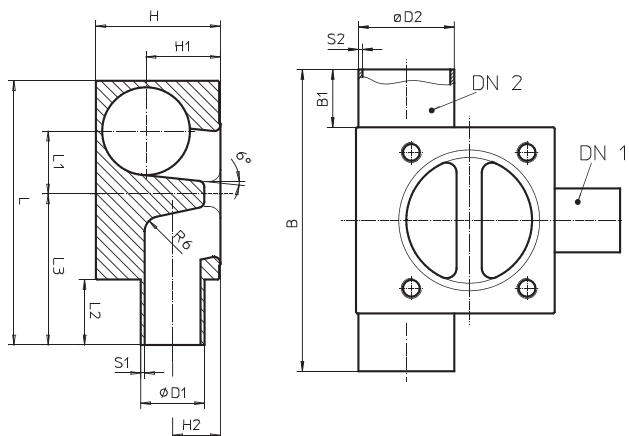
¹ see Butt weld spigots table on page 7. ² MG = diaphragm size. ³ WKZ = valve body material code. ⁴ G = valve body weight.

* Attention: The external geometry does not correspond to the drawing shown.

Continued on the next page

T valve bodies

for DIN pipes, DN 6 - DN 150



Valve body material	Code
1.4435 (BN2) Fe<0,5%	32
1.4435 (ASTM A 351 CF3M)*	34
1.4435 (316L/F316L)	41
1.4435 (BN2) Fe<0,5%	43

* Material equivalency 316 L
Special materials on request

The valve body dimensions for your order are clearly defined by specification of the codes in the fields with a coloured background in the given sequence.

Note:

Dimensions code 32 = dimensions code 34

Dimensions code 41 = dimensions code 43

Dimensions																			
DN 2	Code 2 ¹	DN 1	Code 1 ¹	MG ²	WKZ ³	D1 (mm)	S1 (mm)	D2 (mm)	S2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	H (mm)	H1 (mm)	H2 (mm)	B (mm)	B1 (mm)	G ⁴ (kg)
50	17	32	17	40	41	35.0	1.5	53.0	1.5	135.0	35.5	25.0	71.0	69.0	40.3	26.0	162.0	30.0	4.3
50	17	40	17	40	41	41.0	1.5	53.0	1.5	135.0	35.5	25.0	71.0	69.0	40.3	26.0	162.0	30.0	4.1
50	17	50	17	50	41	53.0	1.5	53.0	1.5	151.0	35.2	30.0	86.5	71.0	42.3	32.0	184.0	30.0	5.4
65	17	4	0	10	41	6.0	1.0	70.0	2.0	115.0	39.9	10.0	38.5	80.0	42.6	12.5	110.0	30.0	2.2
65	17	6	0	10	41	8.0	1.0	70.0	2.0	125.0	39.9	20.0	48.5	80.0	42.6	12.5	110.0	30.0	2.2
65	17	8	0	10	41	10.0	1.0	70.0	2.0	125.0	39.9	20.0	48.5	80.0	42.6	12.5	110.0	30.0	2.2
65	17	10	17	10	41	13.0	1.5	70.0	2.0	125.0	39.9	20.0	48.5	80.0	42.6	12.5	110.0	30.0	2.2
65	17	10	16	10	41	12.0	1.0	70.0	2.0	125.0	39.9	20.0	48.5	80.0	42.6	12.5	110.0	30.0	2.2
65	17	15	17	10	41	19.0	1.5	70.0	2.0	125.0	39.9	20.0	48.5	80.0	42.6	12.5	110.0	30.0	2.1
65	17	15	17	25	41	19.0	1.5	70.0	2.0	133.0	42.3	20.0	54.0	83.0	45.8	19.0	134.0	30.0	3.6
65	17	20	17	25	41	23.0	1.5	70.0	2.0	138.0	42.3	25.0	59.0	83.0	45.8	19.0	134.0	30.0	3.6
65	17	25	17	25	41	29.0	1.5	70.0	2.0	138.0	42.3	25.0	59.0	83.0	45.8	19.0	134.0	30.0	3.5
65	17	32	17	40	41	35.0	1.5	70.0	2.0	152.0	44.4	25.0	71.0	86.0	48.8	26.0	162.0	30.0	5.9
65	17	40	17	40	41	41.0	1.5	70.0	2.0	152.0	44.4	25.0	71.0	86.0	48.8	26.0	162.0	30.0	5.8
65	17	50	17	50	41	53.0	1.5	70.0	2.0	168.0	44.1	30.0	86.5	88.0	50.8	32.0	184.0	30.0	7.6
65	17	65	17	80	41	70.0	2.0	70.0	2.0	195.0	47.0	30.0	110.0	100.0	58.7	62.0	250.0	30.0	16.4
80	17	4	0	25	41	6.0	1.0	85.0	2.0	139.0	50.7	10.0	44.0	98.0	53.3	19.0	134.0	30.0	4.6
80	17	6	0	25	41	8.0	1.0	85.0	2.0	149.0	50.7	20.0	54.0	98.0	53.3	19.0	134.0	30.0	4.6
80	17	8	0	25	41	10.0	1.0	85.0	2.0	149.0	50.7	20.0	54.0	98.0	53.3	19.0	134.0	30.0	4.6
80	17	10	16	25	41	12.0	1.0	85.0	2.0	149.0	50.7	20.0	54.0	98.0	53.3	19.0	134.0	30.0	4.6
80	17	10	17	25	41	13.0	1.5	85.0	2.0	149.0	50.7	20.0	54.0	98.0	53.3	19.0	134.0	30.0	4.6
80	17	15	17	25	41	19.0	1.5	85.0	2.0	149.0	50.7	20.0	54.0	98.0	53.3	19.0	134.0	30.0	4.5
80	17	20	17	25	41	23.0	1.5	85.0	2.0	154.0	50.7	25.0	59.0	98.0	53.3	19.0	134.0	30.0	4.5

Other combinations on request

¹ see Butt weld spigots table on page 7. ² MG = diaphragm size. ³ WKZ = valve body material code. ⁴ G = valve body weight.

* Attention: The external geometry does not correspond to the drawing shown.

Continued on the next page

Dimensions																			
DN 2	Code 2 ¹	DN 1	Code 1 ¹	MG ²	WKZ ³	D1 (mm)	S1 (mm)	D2 (mm)	S2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	H (mm)	H1 (mm)	H2 (mm)	B (mm)	B1 (mm)	G ⁴ (kg)
80	17	25	17	25	41	29.0	1.5	85.0	2.0	154.0	50.7	25.0	59.0	98.0	53.3	19.0	134.0	30.0	4.5
80	17	32	17	40	41	35.0	1.5	85.0	2.0	168.0	52.8	25.0	71.0	101.0	56.3	26.0	162.0	30.0	7.4
80	17	40	17	40	41	41.0	1.5	85.0	2.0	168.0	52.8	25.0	71.0	101.0	56.3	26.0	162.0	30.0	7.3
80	17	50	17	50	41	53.0	1.5	85.0	2.0	184.0	52.5	30.0	86.5	103.0	58.3	32.0	184.0	30.0	9.6
80	17	65	17	80	41	70.0	2.0	85.0	2.0	210.0	55.4	30.0	110.0	111.0	66.2	62.0	250.0	30.0	19.1
80	17	80	17	80	41	85.0	2.0	85.0	2.0	210.0	55.4	30.0	110.0	111.0	66.2	62.0	250.0	30.0	18.0
100	17	4	0	25	41	6.0	1.0	104.0	2.0	159.0	61.2	10.0	44.0	117.0	62.8	19.0	134.0	30.0	5.9
100	17	6	0	25	41	8.0	1.0	104.0	2.0	169.0	61.2	20.0	54.0	117.0	62.8	19.0	134.0	30.0	5.9
100	17	8	0	25	41	10.0	1.0	104.0	2.0	169.0	61.2	20.0	54.0	117.0	62.8	19.0	134.0	30.0	5.9
100	17	10	16	25	41	12.0	1.0	104.0	2.0	169.0	61.2	20.0	54.0	117.0	62.8	19.0	134.0	30.0	5.9
100	17	10	17	25	41	13.0	1.5	104.0	2.0	169.0	61.2	20.0	54.0	117.0	62.8	19.0	134.0	30.0	5.9
100	17	15	17	25	41	19.0	1.5	104.0	2.0	169.0	61.2	20.0	54.0	117.0	62.8	19.0	134.0	30.0	5.8
100	17	20	17	25	41	23.0	1.5	104.0	2.0	174.0	61.2	25.0	59.0	117.0	62.8	19.0	134.0	30.0	5.8
100	17	25	17	25	41	29.0	1.5	104.0	2.0	174.0	61.2	25.0	59.0	117.0	62.8	19.0	134.0	30.0	5.7
100	17	32	17	40	41	35.0	1.5	104.0	2.0	188.0	63.3	25.0	71.0	120.0	65.8	26.0	162.0	30.0	9.4
100	17	40	17	40	41	41.0	1.5	104.0	2.0	188.0	63.3	25.0	71.0	120.0	65.8	26.0	162.0	30.0	9.3
100	17	50	17	50	41	53.0	1.5	104.0	2.0	204.0	63.0	30.0	86.5	122.0	67.8	32.0	184.0	30.0	12.3
100	17	65	17	80	41	70.0	2.0	104.0	2.0	230.0	65.9	30.0	110.0	130.0	75.7	62.0	250.0	30.0	24.2
100	17	80	17	80	41	85.0	2.0	104.0	2.0	230.0	65.9	30.0	110.0	130.0	75.7	62.0	250.0	30.0	23.1
100	17	100	17	100	41	104.0	2.0	104.0	2.0	268.0	67.7	30.0	146.0	124.0	70.0	70.0	292.0	30.0	29.8
125	17	32	17	40	41	35.0	1.5	129.0	2.0	215.0	77.2	25.0	71.0	145.0	78.3	26.0	162.0	30.0	12.4
125	17	40	17	40	41	41.0	1.5	129.0	2.0	215.0	77.2	25.0	71.0	145.0	78.3	26.0	162.0	30.0	12.3
125	17	50	17	50	41	53.0	1.5	129.0	2.0	230.0	76.9	30.0	86.5	147.0	80.3	32.0	184.0	30.0	16.1
125	17	65	17	80	41	70.0	2.0	129.0	2.0	257.0	79.8	30.0	110.0	155.0	88.2	62.0	250.0	30.0	31.5
125	17	80	17	80	41	85.0	2.0	129.0	2.0	257.0	79.8	30.0	110.0	155.0	88.2	62.0	250.0	30.0	30.4
125	17	100	17	100	41	104.0	2.0	129.0	2.0	295.0	81.6	30.0	146.0	150.0	82.5	70.0	292.0	30.0	40.7
150	17	32	17	40	41	35.0	1.5	154.0	2.0	241.0	91.1	25.0	71.0	170.0	90.8	26.0	162.0	30.0	15.6
150	17	40	17	40	41	41.0	1.5	154.0	2.0	241.0	91.1	25.0	71.0	170.0	90.8	26.0	162.0	30.0	15.4
150	17	50	17	50	41	53.0	1.5	154.0	2.0	257.0	90.8	30.0	86.5	172.0	92.8	32.0	184.0	30.0	20.4
150	17	65	17	80	41	70.0	2.0	154.0	2.0	283.0	93.7	30.0	110.0	180.0	100.7	62.0	250.0	30.0	39.1
150	17	80	17	80	41	85.0	2.0	154.0	2.0	283.0	93.7	30.0	110.0	180.0	100.7	62.0	250.0	30.0	38.0
150	17	100	17	100	41	104.0	2.0	154.0	2.0	321.0	95.5	30.0	146.0	174.0	95.0	70.0	292.0	30.0	50.9

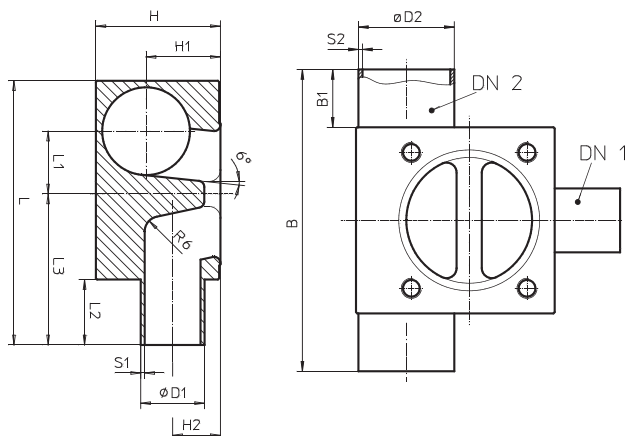
Other combinations on request

¹ see Butt weld spigots table on page 7. ² MG = diaphragm size. ³ WKZ = valve body material code. ⁴ G = valve body weight.

* Attention: The external geometry does not correspond to the drawing shown.

T valve bodies

for ASME - BPE pipes, DN 8 - DN 150



Valve body material	Code
1.4435 (BN2) Fe<0,5%	32
1.4435 (ASTM A 351 CF3M)*	34
1.4435 (316L/F316L)	41
1.4435 (BN2) Fe<0,5%	43

* Material equivalency 316 L
Special materials on request

The valve body dimensions for your order are clearly defined by specification of the codes in the fields with a coloured background in the given sequence.

Note:

Dimensions code 32 = dimensions code 34

Dimensions code 41 = dimensions code 43

Dimensions																			
DN 2	Code 2 ¹	DN 1	Code 1 ¹	MG ²	WKZ ³	D1 (mm)	S1 (mm)	D2 (mm)	S2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	H (mm)	H1 (mm)	H2 (mm)	B (mm)	B1 (mm)	G ⁴ (kg)
8	59	15	59	8	41	12.70	1.65	6.35	0.89	52.5	8.6	20.0	36.5	17.0	8.5	8.5	52.0	10.0	0.1
8	59	10	59	8	41	9.53	0.89	6.35	0.89	52.5	8.6	20.0	36.5	15.0	8.5	8.5	52.0	10.0	0.1
8	59	8	59	8	41	6.35	0.89	6.35	0.89	42.5	8.6	10.0	26.5	15.0	8.5	8.5	52.0	10.0	0.1
10	59	20	59	10	41	19.05	1.65	9.53	0.89	81.0	10.9	25.0	53.5	24.0	12.4	12.5	90.0	20.0	0.5
10	59	15	59	8	41	12.70	1.65	9.53	0.89	52.5	7.1	20.0	36.5	17.0	10.1	8.5	72.0	20.0	0.1
10	59	15	59	10	41	12.70	1.65	9.53	0.89	76.0	10.9	20.0	48.5	21.0	12.4	12.5	90.0	20.0	0.4
10	59	10	59	8	41	9.53	0.89	9.53	0.89	52.5	7.1	20.0	36.5	17.0	10.1	8.5	72.0	20.0	0.1
10	59	10	59	10	41	9.53	0.89	9.53	0.89	76.0	10.9	20.0	48.5	19.0	12.4	12.5	90.0	20.0	0.4
10	59	8	59	8	41	6.35	0.89	9.53	0.89	42.5	7.1	10.0	26.5	17.0	10.1	8.5	72.0	20.0	0.1
10	59	8	59	10	41	6.35	0.89	9.53	0.89	66.0	10.9	10.0	38.5	19.0	12.4	12.5	90.0	20.0	0.4
15	59	20	59	10	41	19.05	1.65	12.70	1.65	81.0	10.2	25.0	53.5	24.0	14.0	12.5	90.0	20.0	0.5
15	59	15	59	8	41	12.70	1.65	12.70	1.65	53.0	7.7	20.0	36.5	20.0	11.7	8.5	72.0	20.0	0.2
15	59	15	59	10	41	12.70	1.65	12.70	1.65	76.0	10.2	20.0	48.5	22.0	14.0	12.5	90.0	20.0	0.4
15	59	10	59	8	41	9.53	0.89	12.70	1.65	53.0	7.7	20.0	36.5	20.0	11.7	8.5	72.0	20.0	0.2
15	59	10	59	10	41	9.53	0.89	12.70	1.65	76.0	10.2	20.0	48.5	22.0	14.0	12.5	90.0	20.0	0.4
15	59	8	59	8	41	6.35	0.89	12.70	1.65	43.0	7.7	10.0	26.5	20.0	11.7	8.5	72.0	20.0	0.2
15	59	8	59	10	41	6.35	0.89	12.70	1.65	66.0	10.2	10.0	38.5	22.0	14.0	12.5	90.0	20.0	0.4
20	59	40	59	40	41	38.10	1.65	19.05	1.65	117.0	27.0	25.0	71.0	47.0	23.3	26.0	152.0	25.0	2.7
20	59	25	59	25	41	25.40	1.65	19.05	1.65	93.0	19.2	25.0	59.0	34.0	20.3	19.0	124.0	25.0	1.0
20	59	20	59	10	41	19.05	1.65	19.05	1.65	81.0	11.9	25.0	53.5	29.0	17.1	12.5	100.0	25.0	0.5
20	59	20	59	25	41	19.05	1.65	19.05	1.65	93.0	19.2	25.0	59.0	32.0	20.3	19.0	124.0	25.0	0.9
20	59	15	59	8	41	12.70	1.65	19.05	1.65	59.0	11.3	20.0	36.5	26.0	14.8	8.5	82.0	25.0	0.2
20	59	15	59	10	41	12.70	1.65	19.05	1.65	76.0	11.9	20.0	48.5	29.0	17.1	12.5	100.0	25.0	0.6
20	59	15	59	25	41	12.70	1.65	19.05	1.65	88.0	19.2	20.0	54.0	32.0	20.3	19.0	124.0	25.0	0.9
20	59	10	59	8	41	9.53	0.89	19.05	1.65	59.0	11.3	20.0	36.5	26.0	14.8	8.5	82.0	25.0	0.2
20	59	10	59	10	41	9.53	0.89	19.05	1.65	76.0	11.9	20.0	48.5	29.0	17.1	12.5	100.0	25.0	0.6

Other combinations on request

¹ see Butt weld spigots table on page 7. ² MG = diaphragm size. ³ WKZ = valve body material code. ⁴ G = valve body weight.

* Attention: The external geometry does not correspond to the drawing shown.

Dimensions																			
DN 2	Code 2 ¹	DN 1	Code 1 ¹	MG ²	WKZ ³	D1 (mm)	S1 (mm)	D2 (mm)	S2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	H (mm)	H1 (mm)	H2 (mm)	B (mm)	B1 (mm)	G ⁴ (kg)
20	59	10	59	25	41	9.53	0.89	19.05	1.65	88.0	19.2	20.0	54.0	32.0	20.3	19.0	124.0	25.0	0.9
20	59	8	59	8	41	6.35	0.89	19.05	1.65	49.0	11.3	10.0	26.5	26.0	14.8	8.5	82.0	25.0	0.2
20	59	8	59	10	41	6.35	0.89	19.05	1.65	66.0	11.9	10.0	38.5	29.0	17.1	12.5	100.0	25.0	0.6
20	59	8	59	25	41	6.35	0.89	19.05	1.65	78.0	19.2	10.0	44.0	32.0	20.3	19.0	124.0	25.0	1.0
25	59	40	59	40	41	38.10	1.65	25.40	1.65	117.0	24.1	25.0	71.0	47.0	26.5	26.0	152.0	25.0	2.6
25	59	25	59	25	41	25.40	1.65	25.40	1.65	93.0	17.9	25.0	59.0	38.0	23.5	19.0	124.0	25.0	1.1
25	59	20	59	10	41	19.05	1.65	25.40	1.65	84.0	15.5	25.0	53.5	35.0	20.3	12.5	100.0	25.0	0.7
25	59	20	59	25	41	19.05	1.65	25.40	1.65	93.0	17.9	25.0	59.0	38.0	23.5	19.0	124.0	25.0	1.1
25	59	15	59	8	41	12.70	1.65	25.40	1.65	66.0	14.8	20.0	36.5	33.0	18.0	8.5	82.0	25.0	0.3
25	59	15	59	10	41	12.70	1.65	25.40	1.65	79.0	15.5	20.0	48.5	35.0	20.3	12.5	100.0	25.0	0.7
25	59	15	59	25	41	12.70	1.65	25.40	1.65	88.0	17.9	20.0	54.0	38.0	23.5	19.0	124.0	25.0	1.1
25	59	10	59	8	41	9.53	0.89	25.40	1.65	66.0	14.8	20.0	36.5	33.0	18.0	8.5	82.0	25.0	0.3
25	59	10	59	10	41	9.53	0.89	25.40	1.65	79.0	15.5	20.0	48.5	35.0	20.3	12.5	100.0	25.0	0.7
25	59	10	59	25	41	9.53	0.89	25.40	1.65	88.0	17.9	20.0	54.0	38.0	23.5	19.0	124.0	25.0	1.1
25	59	8	59	8	41	6.35	0.89	25.40	1.65	56.0	14.8	10.0	26.5	33.0	18.0	8.5	82.0	25.0	0.3
25	59	8	59	10	41	6.35	0.89	25.40	1.65	69.0	15.5	10.0	38.5	35.0	20.3	12.5	100.0	25.0	0.7
25	59	8	59	25	41	6.35	0.89	25.40	1.65	78.0	17.9	10.0	44.0	38.0	23.5	19.0	124.0	25.0	1.1
40	59	80	59	80	41	76.20	1.65	38.10	1.65	190.0	47.3	30.0	110.0	103.0	42.8	62.0	240.0	25.0	18.5
40	59	65	59	50	41	63.50	1.65	38.10	1.65	141.5	26.8	30.0	86.5	69.0	34.9	35.0	174.0	25.0	17.2
40	59	65	59	80	41	63.50	1.65	38.10	1.65	190.0	47.3	30.0	110.0	96.0	42.8	62.0	240.0	25.0	17.2
40	59	50	59	50	41	50.80	1.65	38.10	1.65	141.5	26.8	30.0	86.5	60.0	34.9	32.0	174.0	25.0	4.4
40	59	40	59	40	41	38.10	1.65	38.10	1.65	119.0	27.1	25.0	71.0	54.0	32.9	26.0	152.0	25.0	2.8
40	59	25	59	25	41	25.40	1.65	38.10	1.65	105.0	25.0	25.0	59.0	51.0	29.9	19.0	124.0	25.0	1.6
40	59	20	59	10	41	19.05	1.65	38.10	1.65	97.0	22.5	25.0	53.5	48.0	26.7	12.5	100.0	25.0	1.0
40	59	20	59	25	41	19.05	1.65	38.10	1.65	105.0	25.0	25.0	59.0	51.0	29.9	19.0	124.0	25.0	1.7
40	59	15	59	8	41	12.70	1.65	38.10	1.65	79.0	21.8	20.0	36.5	45.0	24.4	8.5	82.0	25.0	0.5
40	59	15	59	10	41	12.70	1.65	38.10	1.65	92.0	22.5	20.0	48.5	48.0	26.7	12.5	100.0	25.0	1.0
40	59	15	59	25	41	12.70	1.65	38.10	1.65	100.0	25.0	20.0	54.0	51.0	29.9	19.0	124.0	25.0	1.7
40	59	10	59	8	41	9.53	0.89	38.10	1.65	79.0	21.8	20.0	36.5	45.0	24.4	8.5	82.0	25.0	0.5
40	59	10	59	10	41	9.53	0.89	38.10	1.65	92.0	22.5	20.0	48.5	48.0	26.7	12.5	100.0	25.0	1.0
40	59	10	59	25	41	9.53	0.89	38.10	1.65	100.0	25.0	20.0	54.0	51.0	29.9	19.0	124.0	25.0	1.7
40	59	8	59	8	41	6.35	0.89	38.10	1.65	69.0	21.8	10.0	26.5	45.0	24.4	8.5	82.0	25.0	0.5
40	59	8	59	10	41	6.35	0.89	38.10	1.65	82.0	22.5	10.0	38.5	48.0	26.7	12.5	100.0	25.0	1.0
40	59	8	59	25	41	6.35	0.89	38.10	1.65	90.0	25.0	10.0	44.0	51.0	29.9	19.0	124.0	25.0	1.7
50	59	100	59	100	41	101.60	2.11	50.80	1.65	262.0	58.6	30.0	146.0	122.0	43.4	68.8	292.0	30.0	38.7
50	59	80	59	80	41	76.20	1.65	50.80	1.65	190.0	41.6	30.0	110.0	103.0	49.1	62.0	250.0	30.0	17.5
50	59	65	59	50	41	63.50	1.65	50.80	1.65	148.0	33.8	30.0	86.5	69.0	41.2	35.0	184.0	30.0	16.3
50	59	65	59	80	41	63.50	1.65	50.80	1.65	190.0	41.6	30.0	110.0	96.0	49.1	62.0	250.0	30.0	16.3
50	59	50	59	50	41	50.80	1.65	50.80	1.65	148.0	33.8	30.0	86.5	69.0	41.2	32.0	184.0	30.0	5.1
50	59	40	59	40	41	38.10	1.65	50.80	1.65	133.0	34.1	25.0	71.0	67.0	39.2	26.0	162.0	30.0	3.9
50	59	25	59	25	41	25.40	1.65	50.80	1.65	118.0	32.0	25.0	59.0	64.0	36.2	19.0	134.0	30.0	2.3
50	59	20	59	10	41	19.05	1.65	50.80	1.65	110.0	29.6	25.0	53.5	60.0	33.0	12.5	110.0	30.0	1.4
50	59	20	59	25	41	19.05	1.65	50.80	1.65	118.0	32.0	25.0	59.0	64.0	36.2	19.0	134.0	30.0	2.3
50	59	15	59	8	41	12.70	1.65	50.80	1.65	93.0	28.9	20.0	36.5	58.0	30.7	8.5	92.0	30.0	0.7
50	59	15	59	10	41	12.70	1.65	50.80	1.65	105.0	29.6	20.0	48.5	60.0	33.0	12.5	110.0	30.0	1.4
50	59	15	59	25	41	12.70	1.65	50.80	1.65	113.0	32.0	20.0	54.0	64.0	36.2	19.0	134.0	30.0	2.3
50	59	10	59	8	41	9.53	0.89	50.80	1.65	93.0	28.9	20.0	36.5	58.0	30.7	8.5	92.0	30.0	0.7
50	59	10	59	10	41	9.53	0.89	50.80	1.65	105.0	29.6	20.0	48.5	60.0	33.0	12.5	110.0	30.0	1.4

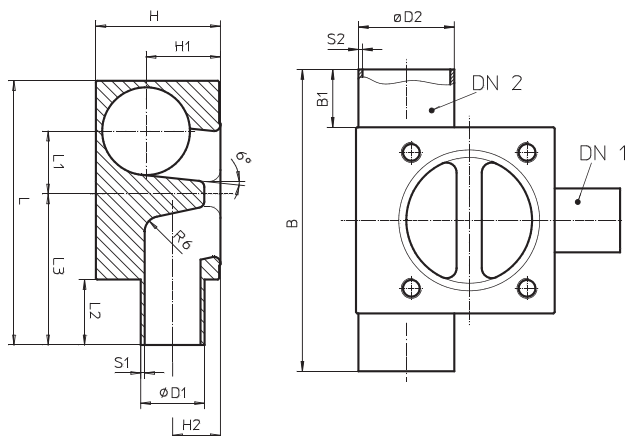
Other combinations on request

¹ see Butt weld spigots table on page 7. ² MG = diaphragm size. ³ WKZ = valve body material code. ⁴ G = valve body weight.

* Attention: The external geometry does not correspond to the drawing shown.

T valve bodies

for ASME - BPE pipes, DN 8 - DN 150



Valve body material	Code
1.4435 (BN2) Fe<0,5%	32
1.4435 (ASTM A 351 CF3M)*	34
1.4435 (316L/F316L)	41
1.4435 (BN2) Fe<0,5%	43

* Material equivalency 316 L
Special materials on request

The valve body dimensions for your order are clearly defined by specification of the codes in the fields with a coloured background in the given sequence.

Note:

Dimensions code 32 = dimensions code 34

Dimensions code 41 = dimensions code 43

Dimensions																			
DN 2	Code 2 ¹	DN 1	Code 1 ¹	MG ²	WKZ ³	D1 (mm)	S1 (mm)	D2 (mm)	S2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	H (mm)	H1 (mm)	H2 (mm)	B (mm)	B1 (mm)	G ⁴ (kg)
50	59	10	59	25	41	9.53	0.89	50.80	1.65	113.0	32.0	20.0	54.0	64.0	36.2	19.0	134.0	30.0	2.3
50	59	8	59	8	41	6.35	0.89	50.80	1.65	83.0	28.9	10.0	26.5	58.0	30.7	8.5	92.0	30.0	0.7
50	59	8	59	10	41	6.35	0.89	50.80	1.65	95.0	29.6	10.0	38.5	60.0	33.0	12.5	110.0	30.0	1.4
50	59	8	59	25	41	6.35	0.89	50.80	1.65	103.0	32.0	10.0	44.0	64.0	36.2	19.0	134.0	30.0	2.3
65	59	100	59	100	41	101.60	2.11	63.50	1.65	262.0	52.9	30.0	146.0	122.0	49.8	68.8	292.0	30.0	37.1
65	59	80	59	80	41	76.20	1.65	63.50	1.65	190.0	43.8	30.0	110.0	103.0	55.5	62.0	250.0	30.0	16.0
65	59	65	59	50	41	63.50	1.65	63.50	1.65	162.0	40.9	30.0	86.5	82.0	47.6	35.0	184.0	30.0	14.8
65	59	65	59	80	41	63.50	1.65	63.50	1.65	190.0	43.8	30.0	110.0	96.0	55.5	62.0	250.0	30.0	14.8
65	59	50	59	50	41	50.80	1.65	63.50	1.65	162.0	40.9	30.0	86.5	82.0	47.6	32.0	184.0	30.0	6.6
65	59	40	59	40	41	38.10	1.65	63.50	1.65	146.0	41.2	25.0	71.0	79.0	45.6	26.0	162.0	30.0	4.9
65	59	25	59	25	41	25.40	1.65	63.50	1.65	132.0	39.1	25.0	59.0	76.0	42.6	19.0	134.0	30.0	2.9
65	59	20	59	10	41	19.05	1.65	63.50	1.65	124.0	36.6	25.0	53.5	73.0	39.4	12.5	110.0	30.0	1.8
65	59	20	59	25	41	19.05	1.65	63.50	1.65	132.0	39.1	25.0	59.0	76.0	42.6	19.0	134.0	30.0	3.0
65	59	15	59	10	41	12.70	1.65	63.50	1.65	119.0	36.6	20.0	48.5	73.0	39.4	12.5	110.0	30.0	1.8
65	59	15	59	25	41	12.70	1.65	63.50	1.65	127.0	39.1	20.0	54.0	76.0	42.6	19.0	134.0	30.0	3.0
65	59	10	59	10	41	9.53	0.89	63.50	1.65	119.0	36.6	20.0	48.5	73.0	39.4	12.5	110.0	30.0	1.8
65	59	10	59	25	41	9.53	0.89	63.50	1.65	127.0	39.1	20.0	54.0	76.0	42.6	19.0	134.0	30.0	3.0
65	59	8	59	10	41	6.35	0.89	63.50	1.65	109.0	36.6	10.0	38.5	73.0	39.4	12.5	110.0	30.0	1.8
65	59	8	59	25	41	6.35	0.89	63.50	1.65	117.0	39.1	10.0	44.0	76.0	42.6	19.0	134.0	30.0	3.0
80	59	100	59	100	41	101.60	2.11	76.20	1.65	262.0	52.6	30.0	146.0	122.0	56.1	68.8	292.0	30.0	34.9
80	59	80	59	80	41	76.20	1.65	76.20	1.65	201.0	50.8	30.0	110.0	103.0	61.8	62.0	250.0	30.0	15.7
80	59	65	59	50	41	63.50	1.65	76.20	1.65	175.0	47.9	30.0	86.5	95.0	53.9	35.0	184.0	30.0	15.9
80	59	65	59	80	41	63.50	1.65	76.20	1.65	201.0	50.8	30.0	110.0	102.0	61.8	62.0	250.0	30.0	15.9
80	59	50	59	50	41	50.80	1.65	76.20	1.65	175.0	47.9	30.0	86.5	95.0	53.9	32.0	184.0	30.0	8.2
80	59	40	59	40	41	38.10	1.65	76.20	1.65	159.0	48.2	25.0	71.0	92.0	51.9	26.0	162.0	30.0	6.0
80	59	25	59	25	41	25.40	1.65	76.20	1.65	145.0	46.1	25.0	59.0	89.0	48.9	19.0	134.0	30.0	3.7

Other combinations on request

¹ see Butt weld spigots table on page 7. ² MG = diaphragm size. ³ WKZ = valve body material code. ⁴ G = valve body weight.

* Attention: The external geometry does not correspond to the drawing shown.

Dimensions																			
DN 2	Code 2 ¹	DN 1	Code 1 ¹	MG ²	WKZ ³	D1 (mm)	S1 (mm)	D2 (mm)	S2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	H (mm)	H1 (mm)	H2 (mm)	B (mm)	B1 (mm)	G ⁴ (kg)
80	59	20	59	10	41	19.05	1.65	76.20	1.65	137.0	43.7	25.0	53.5	86.0	45.7	12.5	110.0	30.0	2.3
80	59	20	59	25	41	19.05	1.65	76.20	1.65	145.0	46.1	25.0	59.0	89.0	48.9	19.0	134.0	30.0	3.7
80	59	15	59	10	41	12.70	1.65	76.20	1.65	132.0	43.7	20.0	48.5	86.0	45.7	12.5	110.0	30.0	2.3
80	59	15	59	25	41	12.70	1.65	76.20	1.65	140.0	46.1	20.0	54.0	89.0	48.9	19.0	134.0	30.0	3.7
80	59	10	59	10	41	9.53	0.89	76.20	1.65	132.0	43.7	20.0	48.5	86.0	45.7	12.5	110.0	30.0	2.3
80	59	10	59	25	41	9.53	0.89	76.20	1.65	140.0	46.1	20.0	54.0	89.0	48.9	19.0	134.0	30.0	3.7
80	59	8	59	10	41	6.35	0.89	76.20	1.65	122.0	43.7	10.0	38.5	86.0	45.7	12.5	110.0	30.0	2.3
80	59	8	59	25	41	6.35	0.89	76.20	1.65	130.0	46.1	10.0	44.0	89.0	48.9	19.0	134.0	30.0	3.7
100	59	100	59	100	41	101.60	2.11	101.60	2.11	268.0	66.3	30.0	146.0	125.0	68.8	68.8	292.0	30.0	31.4
100	59	80	59	80	41	76.20	1.65	101.60	2.11	231.0	64.5	30.0	110.0	131.0	74.5	62.0	250.0	30.0	23.8
100	59	65	59	50	41	63.50	1.65	101.60	2.11	204.0	61.6	30.0	86.5	123.0	66.6	35.0	184.0	30.0	24.2
100	59	65	59	80	41	63.50	1.65	101.60	2.11	231.0	64.5	30.0	110.0	131.0	74.5	62.0	250.0	30.0	24.2
100	59	50	59	50	41	50.80	1.65	101.60	2.11	204.0	61.6	30.0	86.5	123.0	66.6	32.0	184.0	30.0	12.5
100	59	40	59	40	41	38.10	1.65	101.60	2.11	189.0	61.9	25.0	71.0	121.0	64.6	26.0	162.0	30.0	9.5
100	59	25	59	25	41	25.40	1.65	101.60	2.11	175.0	59.8	25.0	59.0	118.0	61.6	19.0	134.0	30.0	5.9
100	59	20	59	25	41	19.05	1.65	101.60	2.11	175.0	59.8	25.0	59.0	118.0	61.6	19.0	134.0	30.0	5.9
100	59	15	59	25	41	12.70	1.65	101.60	2.11	170.0	59.8	20.0	54.0	118.0	61.6	19.0	134.0	30.0	5.9
100	59	10	59	25	41	9.53	0.89	101.60	2.11	170.0	59.8	20.0	54.0	118.0	61.6	19.0	134.0	30.0	5.9
100	59	8	59	25	41	6.35	0.89	101.60	2.11	160.0	59.8	10.0	44.0	118.0	61.6	19.0	134.0	30.0	6.0
150	59	100	59	100	41	101.60	2.11	152.40	2.77	321.0	93.8	30.0	146.0	175.0	94.2	68.8	292.0	30.0	52.4
150	59	80	59	80	41	76.20	1.65	152.40	2.77	283.0	92.0	30.0	110.0	181.0	99.9	62.0	250.0	30.0	38.6
150	59	65	59	50	41	63.50	1.65	152.40	2.77	257.0	89.1	30.0	86.5	173.0	92.0	35.0	184.0	30.0	39.0
150	59	65	59	80	41	63.50	1.65	152.40	2.77	283.0	92.0	30.0	110.0	181.0	99.9	62.0	250.0	30.0	39.0
150	59	50	59	50	41	50.80	1.65	152.40	2.77	257.0	89.1	30.0	86.5	173.0	92.0	32.0	184.0	30.0	20.7
150	59	40	59	40	41	38.10	1.65	152.40	2.77	241.0	89.4	25.0	71.0	171.0	90.0	26.0	162.0	30.0	15.8
150	59	25	59	25	41	25.40	1.65	152.40	2.77	227.0	87.3	25.0	59.0	168.0	87.0	19.0	134.0	30.0	10.1
150	59	20	59	25	41	19.05	1.65	152.40	2.77	227.0	87.3	25.0	59.0	168.0	87.0	19.0	134.0	30.0	10.1
150	59	15	59	25	41	12.70	1.65	152.40	2.77	222.0	87.3	20.0	54.0	168.0	87.0	19.0	134.0	30.0	10.1
150	59	10	59	25	41	9.53	0.89	152.40	2.77	222.0	87.3	20.0	54.0	168.0	87.0	19.0	134.0	30.0	10.1
150	59	8	59	25	41	6.35	0.89	152.40	2.77	212.0	87.3	10.0	44.0	168.0	87.0	19.0	134.0	30.0	10.1

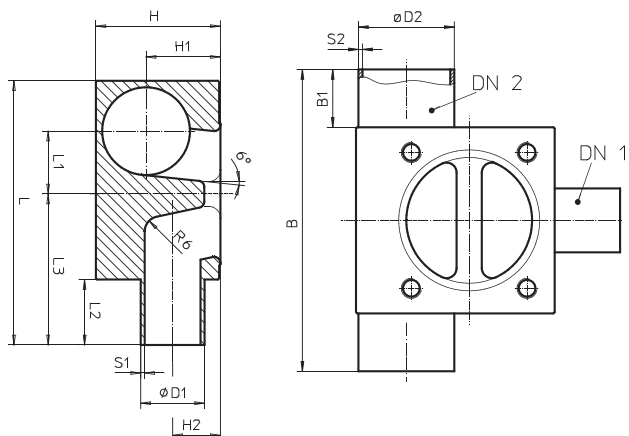
Other combinations on request

¹ see Butt weld spigots table on page 7. ² MG = diaphragm size. ³ WKZ = valve body material code. ⁴ G = valve body weight.

* Attention: The external geometry does not correspond to the drawing shown.

T valve bodies

for JIS-G3447 pipes, DN 25 - DN 100



Valve body material	Code
1.4435 (316L/F316L)	41
1.4435 (BN2) Fe<0,5%	43

The valve body dimensions for your order are clearly defined by specification of the codes in the fields with a coloured background in the given sequence.

Note:

Dimensions code 41 = dimensions code 43

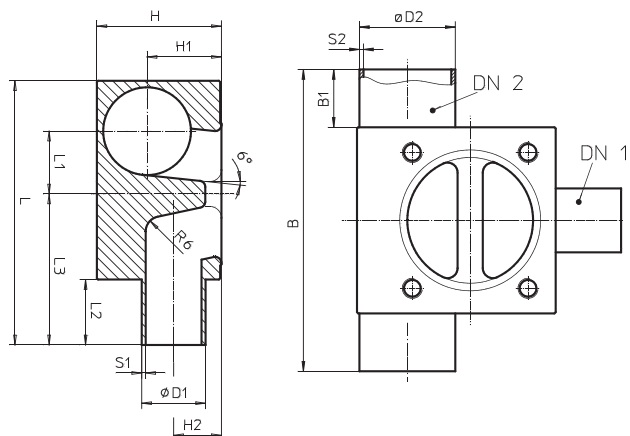
Dimensions																			
DN 2	Code 2 ¹	DN 1	Code 1 ¹	MG ²	WKZ ³	D1 (mm)	S1 (mm)	D2 (mm)	S2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	H (mm)	H1 (mm)	H2 (mm)	B (mm)	B1 (mm)	G ⁴ (kg)
25	35	25	35	25	41	25.4	1.2	25.4	1.2	93.0	18.4	25.0	59.0	38.0	23.5	19.0	124.0	25.0	1.1
32	35	25	35	25	41	25.4	1.2	31.8	1.2	99.0	21.9	25.0	59.0	45.0	26.7	19.0	124.0	25.0	1.4
32	35	32	35	40	41	31.8	1.2	31.8	1.2	117.0	24.0	25.0	71.0	48.0	29.7	26.0	152.0	25.0	2.7
40	35	25	35	25	41	25.4	1.2	38.1	1.2	105.0	25.4	25.0	59.0	51.0	29.9	19.0	124.0	25.0	1.7
40	35	32	35	40	41	31.8	1.2	38.1	1.2	120.0	27.5	25.0	71.0	54.0	32.9	26.0	152.0	25.0	3.0
40	35	40	35	40	41	38.1	1.2	38.1	1.2	120.0	27.5	25.0	71.0	54.0	32.9	26.0	152.0	25.0	2.9
50	35	25	35	25	41	25.4	1.2	50.8	1.5	119.0	32.2	25.0	59.0	64.0	36.2	19.0	134.0	30.0	2.4
50	35	32	35	40	41	31.8	1.2	50.8	1.5	133.0	34.3	25.0	71.0	67.0	39.2	26.0	162.0	30.0	4.1
50	35	40	35	40	41	38.1	1.2	50.8	1.5	133.0	34.3	25.0	71.0	67.0	39.2	26.0	162.0	30.0	4.0
50	35	50	35	50	41	50.8	1.5	50.8	1.5	148.0	34.0	30.0	86.5	69.0	41.2	32.0	184.0	30.0	5.2
65	35	25	35	25	41	25.4	1.2	63.5	2.0	131.0	38.7	25.0	59.0	76.0	42.6	19.0	134.0	30.0	3.1
65	35	32	35	40	41	31.8	1.2	63.5	2.0	146.0	40.8	25.0	71.0	79.0	45.6	26.0	162.0	30.0	5.3
65	35	40	35	40	41	38.1	1.2	63.5	2.0	146.0	40.8	25.0	71.0	79.0	45.6	26.0	162.0	30.0	5.2
65	35	50	35	50	41	50.8	1.5	63.5	2.0	161.0	40.5	30.0	86.5	82.0	47.6	32.0	184.0	30.0	6.9
65	35	65	35	80	41	63.5	2.0	63.5	2.0	190.0	43.4	30.0	110.0	96.0	55.5	62.0	250.0	30.0	16.0
80	35	25	35	25	41	25.4	1.2	76.3	2.0	145.0	45.8	25.0	59.0	89.0	49.0	19.0	134.0	30.0	3.9
80	35	32	35	40	41	31.8	1.2	76.3	2.0	159.0	47.9	25.0	71.0	92.0	52.0	26.0	162.0	30.0	6.5
80	35	40	35	40	41	38.1	1.2	76.3	2.0	159.0	47.9	25.0	71.0	92.0	52.0	26.0	162.0	30.0	6.4
80	35	50	35	50	41	50.8	1.5	76.3	2.0	175.0	47.6	30.0	86.5	95.0	54.0	32.0	184.0	30.0	8.6
80	35	65	35	80	41	63.5	2.0	76.3	2.0	201.0	50.5	30.0	110.0	102.0	61.9	62.0	250.0	30.0	17.2
80	35	80	35	80	41	76.3	2.0	76.3	2.0	201.0	50.5	30.0	110.0	103.0	61.9	62.0	250.0	30.0	16.6
100	35	25	35	25	41	25.4	1.2	101.6	2.0	172.0	59.9	25.0	59.0	114.0	61.6	19.0	134.0	30.0	5.6
100	35	32	35	40	41	31.8	1.2	101.6	2.0	186.0	62.0	25.0	71.0	117.0	64.6	26.0	162.0	30.0	9.2
100	35	40	35	40	41	38.1	1.2	101.6	2.0	186.0	62.0	25.0	71.0	117.0	64.6	26.0	162.0	30.0	9.0
100	35	50	35	50	41	50.8	1.5	101.6	2.0	201.0	61.7	30.0	86.5	120.0	66.6	32.0	184.0	30.0	12.0
100	35	65	35	80	41	63.5	2.0	101.6	2.0	228.0	64.6	30.0	110.0	128.0	74.5	62.0	250.0	30.0	24.2
100	35	80	35	80	41	76.3	2.0	101.6	2.0	228.0	64.6	30.0	110.0	128.0	74.5	62.0	250.0	30.0	23.3
100	35	100	35	100	41	101.6	2.0	101.6	2.0	266.0	66.4	30.0	146.0	122.0	68.8	68.8	292.0	30.0	29.5

Other combinations on request

¹ see Butt weld spigots table on page 7, ² MG = diaphragm size, ³ WKZ = valve body material code, ⁴ G = valve body weight.

T valve bodies

for JIS-G3459 pipes, DN 6 - DN 100



Valve body material	Code
1.4435 (316L/F316L)	41
1.4435 (BN2) Fe<0,5%	43

The valve body dimensions for your order are clearly defined by specification of the codes in the fields with a coloured background in the given sequence.

Note:

Dimensions code 41 = dimensions code 43

Dimensions																			
DN 2	Code 2 ¹	DN 1	Code 1 ¹	MG ²	WKZ ³	D1 (mm)	S1 (mm)	D2 (mm)	S2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	H (mm)	H1 (mm)	H2 (mm)	B (mm)	B1 (mm)	G ⁴ (kg)
6	36	6	36	8	41	10.5	1.2	10.5	1.2	52.5	8.1	20.0	36.5	18.0	10.6	8.5	72.0	20.0	0.1
8	36	6	36	8	41	10.5	1.2	13.8	1.7	54.0	8.3	20.0	36.5	21.0	12.2	8.5	72.0	20.0	0.2
8	36	8	36	8	41	13.8	1.7	13.8	1.7	54.0	8.3	20.0	36.5	21.0	12.2	8.5	72.0	20.0	0.2
10	36	6	36	8	41	10.5	1.2	17.3	1.7	57.0	10.3	20.0	36.5	25.0	14.0	8.5	72.0	20.0	0.2
10	36	8	36	8	41	13.8	1.7	17.3	1.7	57.0	10.3	20.0	36.5	25.0	14.0	8.5	72.0	20.0	0.2
10	36	10	36	10	41	17.3	1.7	17.3	1.7	76.0	11.0	20.0	48.5	27.0	16.3	12.5	90.0	20.0	0.5
15	36	6	36	8	41	10.5	1.2	21.7	2.1	62.0	12.3	20.0	36.5	29.0	16.2	8.5	72.0	20.0	0.3
15	36	8	36	8	41	13.8	1.7	21.7	2.1	62.0	12.3	20.0	36.5	29.0	16.2	8.5	72.0	20.0	0.3
15	36	10	36	10	41	17.3	1.7	21.7	2.1	76.0	12.9	20.0	48.5	31.0	18.5	12.5	90.0	20.0	0.6
15	36	15	36	10	41	21.7	2.1	21.7	2.1	76.0	12.9	20.0	48.5	31.0	18.5	12.5	90.0	20.0	0.6
20	36	6	36	8	41	10.5	1.2	27.2	2.1	67.0	15.3	20.0	36.5	34.0	18.9	8.5	82.0	25.0	0.4
20	36	8	36	8	41	13.8	1.7	27.2	2.1	67.0	15.3	20.0	36.5	34.0	18.9	8.5	82.0	25.0	0.4
20	36	10	36	10	41	17.3	1.7	27.2	2.1	80.0	16.0	20.0	48.5	37.0	21.2	12.5	100.0	25.0	0.7
20	36	15	36	10	41	21.7	2.1	27.2	2.1	80.0	16.0	20.0	48.5	37.0	21.2	12.5	100.0	25.0	0.7
20	36	20	36	25	41	27.2	2.1	27.2	2.1	93.0	18.5	25.0	59.0	40.0	24.4	19.0	124.0	25.0	1.2
25	36	6	36	8	41	10.5	1.2	34.0	2.8	74.0	18.4	20.0	36.5	41.0	22.3	8.5	82.0	25.0	0.5
25	36	8	36	8	41	13.8	1.7	34.0	2.8	74.0	18.4	20.0	36.5	41.0	22.3	8.5	82.0	25.0	0.5
25	36	10	36	10	41	17.3	1.7	34.0	2.8	87.0	19.1	20.0	48.5	44.0	24.6	12.5	100.0	25.0	1.0
25	36	15	36	10	41	21.7	2.1	34.0	2.8	87.0	19.1	20.0	48.5	44.0	24.6	12.5	100.0	25.0	1.0
25	36	20	36	25	41	27.2	2.1	34.0	2.8	100.0	21.5	25.0	59.0	47.0	27.8	19.0	124.0	25.0	1.6
25	36	25	36	25	41	34.0	2.8	34.0	2.8	100.0	21.5	25.0	59.0	47.0	27.8	19.0	124.0	25.0	1.6
32	36	6	36	10	41	10.5	1.2	42.7	2.8	96.0	23.9	20.0	48.5	52.0	29.0	12.5	100.0	25.0	1.3
32	36	8	36	10	41	13.8	1.7	42.7	2.8	96.0	23.9	20.0	48.5	52.0	29.0	12.5	100.0	25.0	1.3
32	36	10	36	10	41	17.3	1.7	42.7	2.8	96.0	23.9	20.0	48.5	52.0	29.0	12.5	100.0	25.0	1.2
32	36	15	36	10	41	21.7	2.1	42.7	2.8	96.0	23.9	20.0	48.5	52.0	29.0	12.5	100.0	25.0	1.2
32	36	20	36	25	41	27.2	2.1	42.7	2.8	109.0	26.4	25.0	59.0	56.0	32.2	19.0	124.0	25.0	2.1
32	36	25	36	25	41	34.0	2.8	42.7	2.8	109.0	26.4	25.0	59.0	56.0	32.2	19.0	124.0	25.0	2.1
32	36	32	36	40	41	42.7	2.8	42.7	2.8	123.0	28.5	25.0	71.0	59.0	35.2	26.0	152.0	25.0	3.5

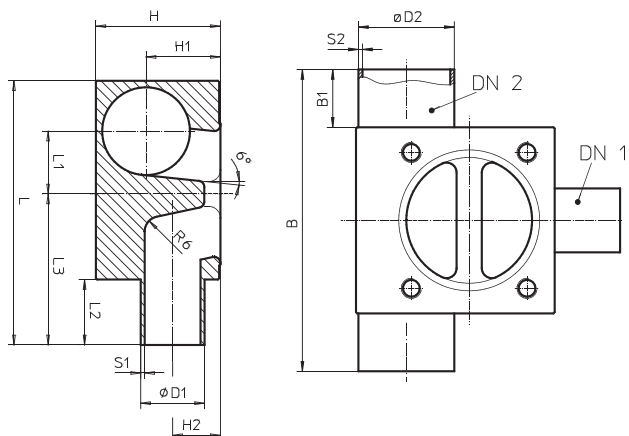
Other combinations on request

¹ see Butt weld spigots table on page 7, ² MG = diaphragm size, ³ WKZ = valve body material code, ⁴ G = valve body weight.

Continued on the next page

T valve bodies

for JIS-G3459 pipes, DN 6 - DN 100



Valve body material	Code
1.4435 (316L/F316L)	41
1.4435 (BN2) Fe<0,5%	43

The valve body dimensions for your order are clearly defined by specification of the codes in the fields with a coloured background in the given sequence.

Note:

Dimensions code 41 = dimensions code 43

Dimensions																			
DN 2	Code 2 ¹	DN 1	Code 1 ¹	MG ²	WKZ ³	D1 (mm)	S1 (mm)	D2 (mm)	S2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	H (mm)	H1 (mm)	H2 (mm)	B (mm)	B1 (mm)	G ⁴ (kg)
40	36	6	36	10	41	10.5	1.2	48.6	2.8	102.0	27.2	20.0	48.5	58.0	31.9	12.5	100.0	25.0	1.5
40	36	8	36	10	41	13.8	1.7	48.6	2.8	102.0	27.2	20.0	48.5	58.0	31.9	12.5	100.0	25.0	1.5
40	36	10	36	10	41	17.3	1.7	48.6	2.8	102.0	27.2	20.0	48.5	58.0	31.9	12.5	100.0	25.0	1.4
40	36	15	36	10	41	21.7	2.1	48.6	2.8	102.0	27.2	20.0	48.5	58.0	31.9	12.5	100.0	25.0	1.4
40	36	20	36	25	41	27.2	2.1	48.6	2.8	115.0	29.6	25.0	59.0	61.0	35.1	19.0	124.0	25.0	2.4
40	36	25	36	25	41	34.0	2.8	48.6	2.8	115.0	29.6	25.0	59.0	61.0	35.1	19.0	124.0	25.0	2.3
40	36	32	36	40	41	42.7	2.8	48.6	2.8	129.0	31.8	25.0	71.0	64.0	38.1	26.0	152.0	25.0	3.9
40	36	40	36	40	41	48.6	2.8	48.6	2.8	129.0	31.8	25.0	71.0	64.0	38.1	26.0	152.0	25.0	3.8
50	36	6	36	10	41	10.5	1.2	60.5	2.8	115.0	33.8	20.0	48.5	70.0	37.9	12.5	110.0	30.0	1.9
50	36	8	36	10	41	13.8	1.7	60.5	2.8	115.0	33.8	20.0	48.5	70.0	37.9	12.5	110.0	30.0	1.9
50	36	10	36	10	41	17.3	1.7	60.5	2.8	115.0	33.8	20.0	48.5	70.0	37.9	12.5	110.0	30.0	1.9
50	36	15	36	10	41	21.7	2.1	60.5	2.8	115.0	33.8	20.0	48.5	70.0	37.9	12.5	110.0	30.0	1.9
50	36	15	36	25	41	21.7	2.1	60.5	2.8	122.0	36.2	20.0	54.0	73.0	41.1	19.0	134.0	30.0	3.1
50	36	20	36	25	41	27.2	2.1	60.5	2.8	127.0	36.2	25.0	59.0	73.0	41.1	19.0	134.0	30.0	3.1
50	36	25	36	25	41	34.0	2.8	60.5	2.8	127.0	36.2	25.0	59.0	73.0	41.1	19.0	134.0	30.0	3.0
50	36	32	36	40	41	42.7	2.8	60.5	2.8	142.0	38.4	25.0	71.0	76.0	44.1	26.0	162.0	30.0	5.1
50	36	40	36	40	41	48.6	2.8	60.5	2.8	142.0	38.4	25.0	71.0	76.0	44.1	26.0	162.0	30.0	4.9
50	36	50	36	50	41	60.5	2.8	60.5	2.8	157.0	38.1	30.0	86.5	79.0	46.1	32.0	184.0	30.0	6.5
65	36	6	36	10	41	10.5	1.2	76.3	3.0	131.0	42.4	20.0	48.5	86.0	45.8	12.5	110.0	30.0	2.6
65	36	8	36	10	41	13.8	1.7	76.3	3.0	131.0	42.4	20.0	48.5	86.0	45.8	12.5	110.0	30.0	2.6
65	36	10	36	10	41	17.3	1.7	76.3	3.0	131.0	42.4	20.0	48.5	86.0	45.8	12.5	110.0	30.0	2.6
65	36	15	36	10	41	21.7	2.1	76.3	3.0	131.0	42.4	20.0	48.5	86.0	45.8	12.5	110.0	30.0	2.5
65	36	15	36	25	41	21.7	2.1	76.3	3.0	139.0	44.8	20.0	54.0	89.0	49.0	19.0	134.0	30.0	4.1
65	36	20	36	25	41	27.2	2.1	76.3	3.0	144.0	44.8	25.0	59.0	89.0	49.0	19.0	134.0	30.0	4.1

Other combinations on request

¹ see Butt weld spigots table on page 7, ² MG = diaphragm size, ³ WKZ = valve body material code, ⁴ G = valve body weight.

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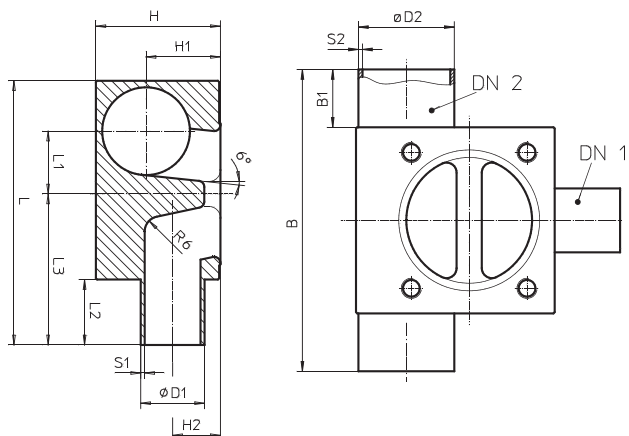
Dimensions																			
DN 2	Code 2 ¹	DN 1	Code 1 ¹	MG ²	WKZ ³	D1 (mm)	S1 (mm)	D2 (mm)	S2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	H (mm)	H1 (mm)	H2 (mm)	B (mm)	B1 (mm)	G ⁴ (kg)
65	36	25	36	25	41	34.0	2.8	76.3	3.0	144.0	44.8	25.0	59.0	89.0	49.0	19.0	134.0	30.0	4.1
65	36	32	36	40	41	42.7	2.8	76.3	3.0	158.0	46.9	25.0	71.0	92.0	52.0	26.0	162.0	30.0	6.6
65	36	40	36	40	41	48.6	2.8	76.3	3.0	158.0	46.9	25.0	71.0	92.0	52.0	26.0	162.0	30.0	6.5
65	36	50	36	50	41	60.5	2.8	76.3	3.0	174.0	46.6	30.0	86.5	95.0	54.0	32.0	184.0	30.0	8.7
65	36	65	36	80	41	76.3	3.0	76.3	3.0	200.0	49.5	30.0	110.0	103.0	61.9	62.0	250.0	30.0	17.1
80	36	6	36	25	41	10.5	1.2	89.1	3.0	152.0	51.9	20.0	54.0	102.0	55.4	19.0	134.0	30.0	5.0
80	36	8	36	25	41	13.8	1.7	89.1	3.0	152.0	51.9	20.0	54.0	102.0	55.4	19.0	134.0	30.0	5.0
80	36	10	36	25	41	17.3	1.7	89.1	3.0	152.0	51.9	20.0	54.0	102.0	55.4	19.0	134.0	30.0	5.0
80	36	15	36	25	41	21.7	2.1	89.1	3.0	152.0	51.9	20.0	54.0	102.0	55.4	19.0	134.0	30.0	5.0
80	36	20	36	25	41	27.2	2.1	89.1	3.0	157.0	51.9	25.0	59.0	102.0	55.4	19.0	134.0	30.0	5.0
80	36	25	36	25	41	34.0	2.8	89.1	3.0	157.0	51.9	25.0	59.0	102.0	55.4	19.0	134.0	30.0	4.9
80	36	32	36	40	41	42.7	2.8	89.1	3.0	172.0	54.0	25.0	71.0	105.0	58.4	26.0	162.0	30.0	8.1
80	36	40	36	40	41	48.6	2.8	89.1	3.0	172.0	54.0	25.0	71.0	105.0	58.4	26.0	162.0	30.0	7.9
80	36	50	36	50	41	60.5	2.8	89.1	3.0	187.0	53.7	30.0	86.5	107.0	60.4	32.0	184.0	30.0	10.3
80	36	65	36	80	41	76.3	3.0	89.1	3.0	214.0	56.6	30.0	110.0	115.0	68.3	62.0	250.0	30.0	20.4
80	36	80	36	80	41	89.1	3.0	89.1	3.0	214.0	56.6	30.0	110.0	115.0	68.3	62.0	250.0	30.0	19.4
100	36	6	36	25	41	10.5	1.2	114.3	3.0	179.0	65.9	20.0	54.0	127.0	68.0	19.0	134.0	30.0	6.9
100	36	8	36	25	41	13.8	1.7	114.3	3.0	179.0	65.9	20.0	54.0	127.0	68.0	19.0	134.0	30.0	6.9
100	36	10	36	25	41	17.3	1.7	114.3	3.0	179.0	65.9	20.0	54.0	127.0	68.0	19.0	134.0	30.0	6.9
100	36	15	36	25	41	21.7	2.1	114.3	3.0	179.0	65.9	20.0	54.0	127.0	68.0	19.0	134.0	30.0	6.8
100	36	20	36	25	41	27.2	2.1	114.3	3.0	184.0	65.9	25.0	59.0	127.0	68.0	19.0	134.0	30.0	6.8
100	36	25	36	25	41	34.0	2.8	114.3	3.0	184.0	65.9	25.0	59.0	127.0	68.0	19.0	134.0	30.0	6.8
100	36	32	36	40	41	42.7	2.8	114.3	3.0	198.0	68.0	25.0	71.0	130.0	71.0	26.0	162.0	30.0	10.8
100	36	40	36	40	41	48.6	2.8	114.3	3.0	198.0	68.0	25.0	71.0	130.0	71.0	26.0	162.0	30.0	10.7
100	36	50	36	50	41	60.5	2.8	114.3	3.0	214.0	67.7	30.0	86.5	133.0	73.0	32.0	184.0	30.0	14.3
100	36	65	36	80	41	76.3	3.0	114.3	3.0	240.0	70.6	30.0	110.0	140.0	80.9	62.0	250.0	30.0	27.3
100	36	80	36	80	41	89.1	3.0	114.3	3.0	240.0	70.6	30.0	110.0	140.0	80.9	62.0	250.0	30.0	26.3
100	36	100	36	100	41	114.3	3.0	114.3	3.0	278.0	72.4	30.0	146.0	135.0	75.2	75.2	292.0	30.0	33.7

Other combinations on request

¹ see Butt weld spigots table on page 7, ² MG = diaphragm size, ³ WKZ = valve body material code, ⁴ G = valve body weight.

T valve bodies

for SMS 3008 pipes, DN 25 - DN 100



Valve body material	Code
1.4435 (316L/F316L)	41
1.4435 (BN2) Fe<0,5%	43

The valve body dimensions for your order are clearly defined by specification of the codes in the fields with a coloured background in the given sequence.

Note:

Dimensions code 41 = dimensions code 43

Dimensions																				
DN 2	Code 2 ¹	DN 1	Code 1 ¹	MG ²	WKZ ³	D1 (mm)	S1 (mm)	D2 (mm)	S2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	H (mm)	H1 (mm)	H2 (mm)	B (mm)	B1 (mm)	G ⁴ (kg)	
25	37	10	16	8	41	12.0	1.0	25.0	1.2	66.0	15.0	20.0	36.5	32.0	17.8	8.5	82.0	25.0	0.3	
25	37	15	16	25	41	18.0	1.0	25.0	1.2	88.0	18.1	20.0	54.0	38.0	23.3	19.0	124.0	25.0	1.2	
25	37	25	37	25	41	25.0	1.2	25.0	1.2	93.0	18.1	25.0	59.0	38.0	23.3	19.0	124.0	25.0	1.1	
32	37	10	16	10	41	12.0	1.0	33.7	1.2	88.0	20.5	20.0	48.5	43.0	24.5	12.5	100.0	25.0	0.9	
32	37	15	16	10	41	18.0	1.0	33.7	1.2	88.0	20.5	20.0	48.5	43.0	24.5	12.5	100.0	25.0	0.9	
32	37	15	16	25	41	18.0	1.0	33.7	1.2	96.0	23.0	20.0	54.0	46.0	27.7	19.0	124.0	25.0	1.5	
32	37	25	37	25	41	25.0	1.2	33.7	1.2	101.0	23.0	25.0	59.0	46.0	27.7	19.0	124.0	25.0	1.5	
32	37	32	37	40	41	33.7	1.2	33.7	1.2	117.0	25.1	25.0	71.0	50.0	30.7	26.0	152.0	25.0	2.7	
40	37	10	16	10	41	12.0	1.0	38.0	1.2	92.0	22.9	20.0	48.5	48.0	26.6	12.5	100.0	25.0	1.0	
40	37	15	16	10	41	18.0	1.0	38.0	1.2	92.0	22.9	20.0	48.5	48.0	26.6	12.5	100.0	25.0	1.0	
40	37	15	16	25	41	18.0	1.0	38.0	1.2	100.0	25.4	20.0	54.0	51.0	29.8	19.0	124.0	25.0	1.7	
40	37	25	37	25	41	25.0	1.2	38.0	1.2	105.0	25.4	25.0	59.0	51.0	29.8	19.0	124.0	25.0	1.7	
40	37	32	37	40	41	33.7	1.2	38.0	1.2	119.0	27.5	25.0	71.0	54.0	32.8	26.0	152.0	25.0	2.9	
40	37	40	37	40	41	38.0	1.2	38.0	1.2	119.0	27.5	25.0	71.0	54.0	32.8	26.0	152.0	25.0	2.9	
50	37	10	16	10	41	12.0	1.0	51.0	1.2	106.0	30.1	20.0	48.5	61.0	33.1	12.5	110.0	30.0	1.4	
50	37	15	16	10	41	18.0	1.0	51.0	1.2	106.0	30.1	20.0	48.5	61.0	33.1	12.5	110.0	30.0	1.4	
50	37	15	16	25	41	18.0	1.0	51.0	1.2	114.0	32.6	20.0	54.0	64.0	36.3	19.0	134.0	30.0	2.4	
50	37	25	37	25	41	25.0	1.2	51.0	1.2	119.0	32.6	25.0	59.0	64.0	36.3	19.0	134.0	30.0	2.4	
50	37	32	37	40	41	33.7	1.2	51.0	1.2	133.0	34.7	25.0	71.0	67.0	39.3	26.0	162.0	30.0	4.0	
50	37	40	37	40	41	38.0	1.2	51.0	1.2	133.0	34.7	25.0	71.0	67.0	39.3	26.0	162.0	30.0	4.0	
50	37	50	37	50	41	51.0	1.2	51.0	1.2	149.0	34.4	30.0	86.5	69.0	41.3	32.0	184.0	30.0	5.2	
65	37	10	16	10	41	12.0	1.0	63.5	1.6	119.0	36.7	20.0	48.5	73.0	39.4	12.5	110.0	30.0	1.9	
65	37	15	16	10	41	18.0	1.0	63.5	1.6	119.0	36.7	20.0	48.5	73.0	39.4	12.5	110.0	30.0	1.8	
65	37	15	16	25	41	18.0	1.0	63.5	1.6	127.0	39.1	20.0	54.0	76.0	42.6	19.0	134.0	30.0	3.1	

Other combinations on request

¹ see Butt weld spigots table on page 7, ² MG = diaphragm size, ³ WKZ = valve body material code, ⁴ G = valve body weight.

Continued on the next page

Dimensions																			
DN 2	Code 2 ¹	DN 1	Code 1 ¹	MG ²	WKZ ³	D1 (mm)	S1 (mm)	D2 (mm)	S2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	H (mm)	H1 (mm)	H2 (mm)	B (mm)	B1 (mm)	G ⁴ (kg)
65	37	25	37	25	41	25.0	1.2	63.5	1.6	132.0	39.1	25.0	59.0	76.0	42.6	19.0	134.0	30.0	3.1
65	37	32	37	40	41	33.7	1.2	63.5	1.6	146.0	41.2	25.0	71.0	79.0	45.6	26.0	162.0	30.0	5.2
65	37	40	37	40	41	38.0	1.2	63.5	1.6	146.0	41.2	25.0	71.0	79.0	45.6	26.0	162.0	30.0	5.1
65	37	50	37	50	41	51.0	1.2	63.5	1.6	162.0	40.9	30.0	86.5	82.0	47.6	32.0	184.0	30.0	6.8
65	37	65	37	80	41	63.5	1.6	63.5	1.6	190.0	43.8	30.0	110.0	96.0	55.5	62.0	250.0	30.0	15.8
80	37	10	16	25	41	12.0	1.0	76.1	1.6	140.0	46.1	20.0	54.0	89.0	48.9	19.0	134.0	30.0	3.9
80	37	15	16	25	41	18.0	1.0	76.1	1.6	140.0	46.1	20.0	54.0	89.0	48.9	19.0	134.0	30.0	3.9
80	37	25	37	25	41	25.0	1.2	76.1	1.6	145.0	46.1	25.0	59.0	89.0	48.9	19.0	134.0	30.0	3.8
80	37	32	37	40	41	33.7	1.2	76.1	1.6	159.0	48.2	25.0	71.0	92.0	51.9	26.0	162.0	30.0	6.4
80	37	40	37	40	41	38.0	1.2	76.1	1.6	159.0	48.2	25.0	71.0	92.0	51.9	26.0	162.0	30.0	6.3
80	37	50	37	50	41	51.0	1.2	76.1	1.6	175.0	47.9	30.0	86.5	94.0	53.9	32.0	184.0	30.0	8.3
80	37	65	37	80	41	63.5	1.6	76.1	1.6	201.0	50.8	30.0	110.0	102.0	61.8	62.0	250.0	30.0	17.0
80	37	80	37	80	41	76.1	1.6	76.1	1.6	201.0	50.8	30.0	110.0	103.0	61.8	62.0	250.0	30.0	16.4
100	37	10	16	25	41	12.0	1.0	101.6	2.0	167.0	59.9	20.0	54.0	114.0	61.6	19.0	134.0	30.0	5.7
100	37	15	16	25	41	18.0	1.0	101.6	2.0	167.0	59.9	20.0	54.0	114.0	61.6	19.0	134.0	30.0	5.6
100	37	25	37	25	41	25.0	1.2	101.6	2.0	172.0	59.9	25.0	59.0	114.0	61.6	19.0	134.0	30.0	5.6
100	37	32	37	40	41	33.7	1.2	101.6	2.0	186.0	62.0	25.0	71.0	117.0	64.6	26.0	162.0	30.0	9.1
100	37	40	37	40	41	38.0	1.2	101.6	2.0	186.0	62.0	25.0	71.0	117.0	64.6	26.0	162.0	30.0	9.0
100	37	50	37	50	41	51.0	1.2	101.6	2.0	201.0	61.7	30.0	86.5	120.0	66.6	32.0	184.0	30.0	12.0
100	37	65	37	80	41	63.5	1.6	101.6	2.0	228.0	64.6	30.0	110.0	128.0	74.5	62.0	250.0	30.0	24.1
100	37	80	37	80	41	76.1	1.6	101.6	2.0	228.0	64.6	30.0	110.0	128.0	74.5	62.0	250.0	30.0	23.3
100	37	100	37	100	41	101.6	2.0	101.6	2.0	266.0	66.4	30.0	146.0	122.0	68.8	68.8	292.0	30.0	29.5

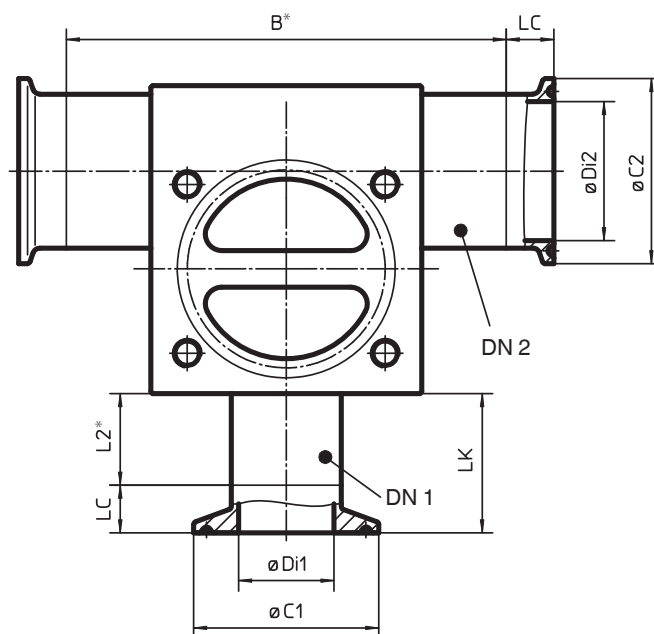
Other combinations on request

¹ see Butt weld spigots table on page 7, ² MG = diaphragm size, ³ WKZ = valve body material code, ⁴ G = valve body weight.

T valve bodies with clamp connections

Butt weld spigots	Code
Spigots DIN 11850, series 1	16
Spigots DIN 11850, series 2	17
Spigots DIN 11866, series A	1A
Spigots SMS 3008	37
Spigots ASME BPE	59
Spigots EN ISO 1127	60

Clamp connections	Code
Clamps following ASME BPE for EN ISO 1127 pipes, clamp DN1 fully machined	8K
Clamp following ASME BPE for EN ISO 1127 pipes	82
Clamps following DIN for EN ISO 1127 pipes, clamp DN1 fully machined	8L
Clamps following DIN for EN ISO 1127 pipes	83
Clamps DIN 32676 for DIN 11850 pipes, clamp DN1 fully machined	8A
Clamps DIN 32676 for 11850 pipes	86
Clamps SMS 3017 for SMS 3008 pipes	87
Clamps ASME BPE for ASME BPE pipes, clamp DN1 fully machined	80
Clamps ASME BPE for ASME BPE pipes	88



* see tables on pages 49-63

Dimensions of clamp connections for T valve bodies																				
For butt weld spigots		Code 60				Code 60				Code 16, 17				Code 37			Code 59			
Clamp connections		Code 82			Code 8K	Code 83			Code 8L	Code 86			Code 8A	Code 87			Code 88			Code 80
DN	øDi1/ Di2	øC1/ C2	LC	LK	øDi1/ Di2	øC1/ C2	LC	LK	øDi1/ Di2	øC1/ C2	LC	LK	øDi1/ Di2	øC1/ C2	LC	øDi1/ Di2	øC1/ C2	LC	LK	
8	10.30	25.40	13	20	10.30	34.00	13	20	-	-	-	-	-	-	-	-	-	-	13	
10	14.00	25.40	13	20	14.00	34.00	13	20	10.00	34.00	13	20	-	-	-	-	-	-	13	
15	18.10	50.50	13	-	18.10	34.00	13	20	16.00	34.00	13	20	-	-	-	9.40	25.00	13	20	
20	23.70	50.50	13	-	23.70	50.50	13	-	20.00	34.00	13	20	-	-	-	15.75	25.00	13	20	
25	29.70	50.50	13	-	29.70	50.50	13	-	26.00	50.50	13	-	22.60	50.50	13	22.10	50.50	13	-	
32	38.40	64.00	13	-	38.40	64.00	13	-	32.00	50.50	13	-	31.30	50.50	13	-	-	-	-	
40	44.30	64.00	13	-	44.30	64.00	13	-	38.00	50.50	13	-	35.60	50.50	13	34.80	50.50	13	-	
50	56.30	77.50	13	-	56.30	77.50	13	-	50.00	64.00	13	-	48.60	64.00	13	47.50	64.00	13	-	
65	72.10	91.00	24	-	72.10	91.00	24	-	66.00	91.00	24	-	60.30	77.50	24	60.20	77.50	24	-	
80	84.30	106.00	24	-	84.30	106.00	24	-	81.00	106.00	24	-	72.90	91.00	24	72.90	91.00	24	-	
100	109.70	144.50	24	-	109.70	130.00	24	-	100.00	119.00	24	-	97.60	119.00	24	97.38	119.00	24	-	

Order code - T bodies

Order example for T valve bodies (diaphragm size 8, A version) with butt weld spigots:

Type	Nominal size DN 1	Body configuration	Connection DN 1	Valve body material	Nominal size DN 2	Connection DN 2	Additional data
A	B	C	D	E	G	H	K
K601	15	A	59	41	40	59	1508



Order example for T valve bodies (diaphragm size 10) with clamp connection* at the branch:

Type	Nominal size DN 1	Body configuration	Connection DN 1	Valve body material	Nominal size DN 2	Connection DN 2	Additional data
A	B	C	D	E	G	H	K
K612	15	T	88	41	25	59	1536



Order example for T valve bodies (from diaphragm size 25) with clamp connections*:

Type	Nominal size DN 1	Body configuration	Connection DN 1	Valve body material	Nominal size DN 2	Connection DN 2	Additional data
A	B	C	D	E	G	H	K
K600	15	T	88	41	50	88	1507



DN 1 = branch, DN 2 = main pipe

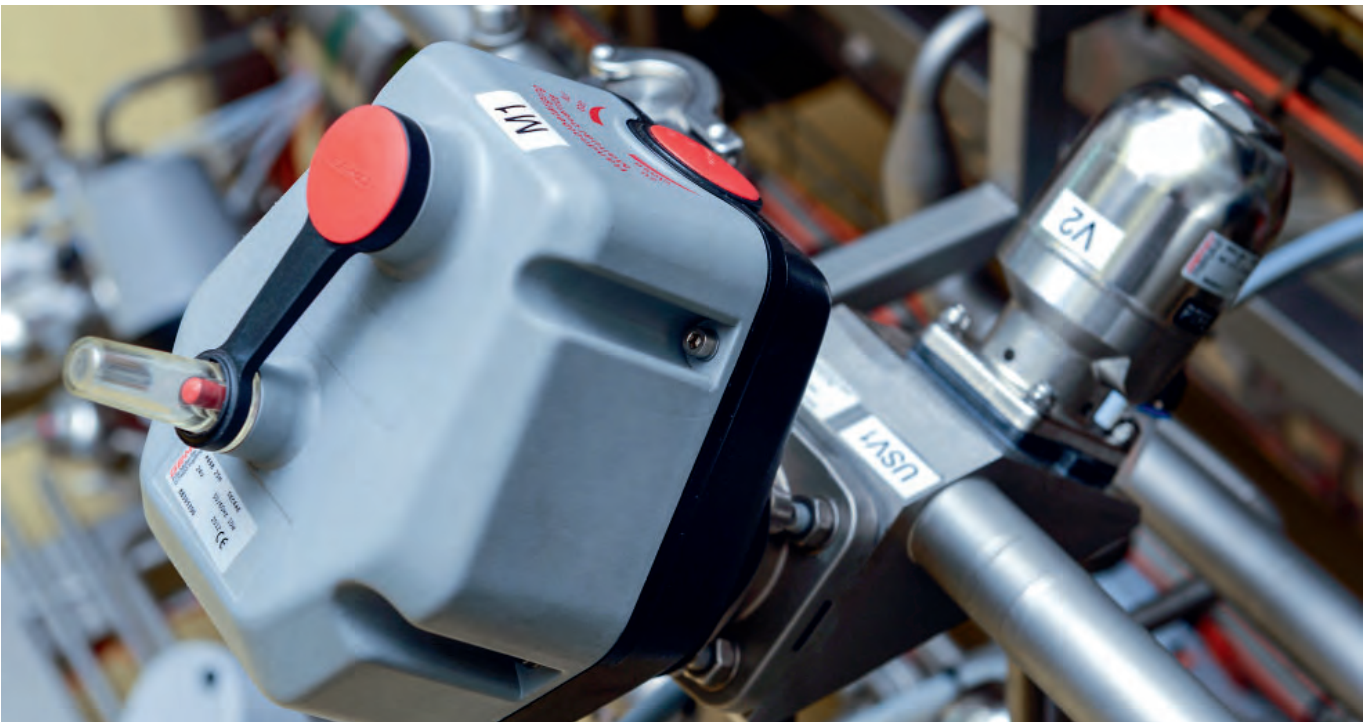
* Unless otherwise indicated, the clamp connections are welded on (main pipe) or fully machined (branch).

Materials and certificates

The table below provides an overview of the possible certificates which are generally available. The type of certificate and its content must be specified exactly before ordering to be able to provide the required documents. Later requests of certificates may not be possible or possible only under certain conditions.

Our specialists are happy to answer any questions you might have.

Type	Designation of the test certificate in accordance with EN 10204	Content of the certificate	Confirmation of the certificate by
2.1	Certificate of compliance with the order	Confirmation of compliance with the order	the manufacturer
2.2	Test report	Confirmation of compliance with the order with specification of results of non-specific testing	the manufacturer
3.1	Inspection certificate 3.1	Confirmation of compliance with the order with specification of results of specific testing	the manufacturer acceptance officer independent of the production division
3.2	Inspection certificate 3.2	Confirmation of compliance with the order with specification of results of specific testing	the manufacturer acceptance officer independent of the production division and the acceptance officer commissioned by the purchaser or the acceptance officer named in the official regulations



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