

Construction

The GEMÜ 687 pneumatically operated 2/2-way diaphragm valve has a low maintenance actuator. Normally Closed, Normally Open and Double Acting control functions are available.

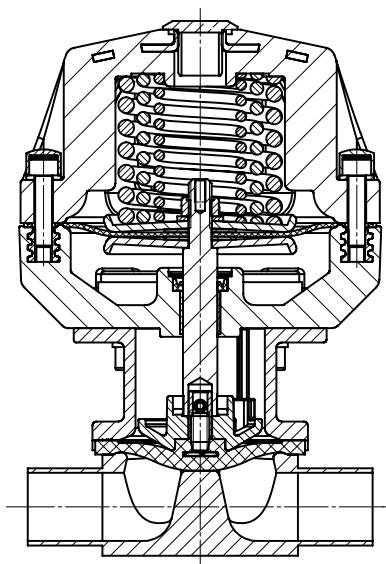
Features

- Suitable for inert and corrosive* liquid and gaseous media
- Chemical resistance of actuator
- Stainless steel body with CIP/SIP cleaning and sterilising capabilities
- Insensitive to particulate media
- Valve body and diaphragm available in various materials and designs
- Various connections available
- Surface finishes down to 0.25 µm, electropolished
- Versions according to ATEX on request

Advantages

- The modular actuator system permits a variety of options to be used such as tank bottom valves, T valves, sampling valves, multi-port valves and tandem welded configurations
- Optional flow direction, will seal in either flow direction up to full operating pressure
- Optional mounting position
- Optional accessories:
 - Stroke limiter
 - Optical position indicator
 - Manual override (GEMÜ 1002, GEMÜ 1004)
 - Pilot valve with manual override (GEMÜ 0322 - 0326)
 - Electrical position indicators

*see information on working medium on page 2

Sectional drawing

Technical data

Working medium		Filling volume		
Corrosive, inert, gaseous and liquid media which have no negative impact on the physical and chemical properties of the body and diaphragm material.				
Operating temperature (dependent on medium wetted materials)	max. 150 °C			
Ambient conditions				
Max. ambient temperature	60 °C			
		C.f. 3 = for filling volume in open position see c.f. 1; for filling volume in closed position see c.f. 2		

Control medium	
Inert gases	
Max. perm. temperature of control medium	40 °C

MG	DN	Control function 1		Control function 2		Control function 3				
		EPDM/FPM	PTFE	Control pressure	EPDM/FPM	PTFE	Control pressure	EPDM/FPM	PTFE	Control pressure
10	10	10	6	3.5 - 7.0	6	6	max. 5.5	6	6	max. 5.0
	15									
	20									
25	15	10	6	5.5 - 7.0	10	6	max. 5.5	10	6	max. 5.5
	20									
	25									
40	32	10	6	5.5 - 7.0	10	6	max. 5.5	10	6	max. 5.5
	40									
50	50	10	6	5.5 - 7.0	10	6	max. 5.0	10	6	max. 5.0
80	65	8	5	5.0 - 7.0	8	6	max. 5.0	8	6	max. 4.5
	80									
100	100	6	4	5.5 - 7.0	6	4	max. 5.0	6	4	max. 4.5

All pressures are gauge pressures. Operating pressure values were determined with static operating pressure applied on one side of a closed valve. Sealing at the valve seat and atmospheric sealing is ensured for the given values. Information on operating pressures applied on both sides and for high purity media on request. Higher operating pressures on request.
MG = diaphragm size

Diaphragm	Diaphragm temperature range [°C]			Code	
	Liquid Media		Steam (Sterilisation)		
	Min.	Max.			
EPDM	-10	90	150 °C, max. 60 min	13	
EPDM	-10	90	not applicable	14	
EPDM	-10	90	150 °C, max. 60 min	16	
EPDM	-10	90	150 °C, max. 180 min	17	
PTFE	-10	90	Constant temperature* 150 °C	52	
PTFE	-10	90	Constant temperature* 150 °C	5E	
FPM	-10	90	not applicable	4	
PTFE	-10	90	150 °C, max. 40 min	5F	

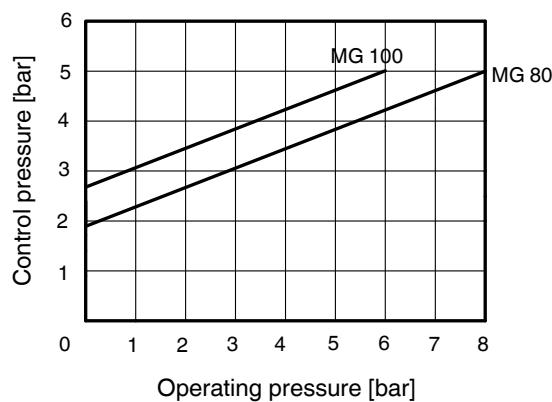
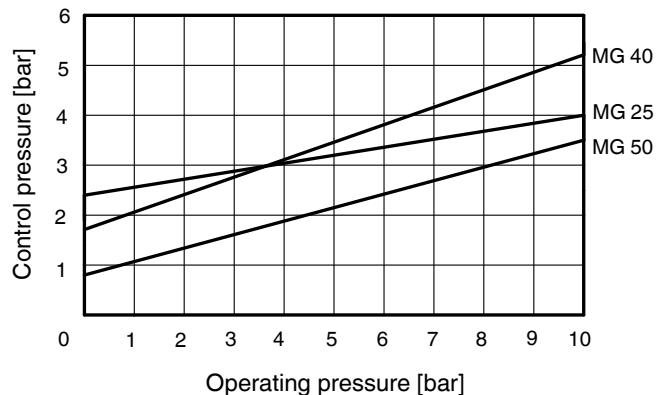
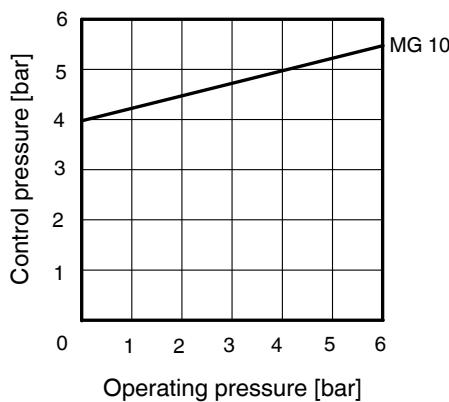
*The valves concerned must be serviced regularly if steam is applied continuously

Technical data

Kv values [m³/h]								
MG	DN	DIN Code 0	DIN 11850 Series 1 Code 16	DIN 11850 Series 2 Code 17	DIN 11850 Series 3 Code 18	SMS 3008 Code 37	ASME BPE Code 59	EN ISO 1127 Code 60
10	10	-	2.4	2.4	2.4	-	2.2	3.3
	15	3.3	3.8	3.8	3.8	-	2.2	4.0
	20	-	-	-	-	-	3.8	-
25	15	4.1	4.7	4.7	4.7	-	-	7.4
	20	6.3	7.0	7.0	7.0	-	4.4	13.2
	25	13.9	15.0	15.0	15.0	12.6	12.2	16.2
40	32	25.3	27.0	27.0	27.0	26.2	-	30.0
	40	29.3	30.9	30.9	30.9	30.2	29.5	32.8
50	50	46.5	48.4	48.4	48.4	51.7	50.6	55.2
	65	-	-	77.0	-	68.5	68.5	96.0
	80	-	-	111.0	-	80.0	87.0	111.0
100	100	-	-	194.0	-	173.0	188.0	214.0

Kv values determined acc. to IEC 534 standard, inlet pressure 6 bar, Δp 1 bar, stainless steel valve body and soft elastomer diaphragm.

Control pressure / operating pressure diagram Control function 2



Order data

Body configuration	Code
Tank valve body	B**
2/2-way body	D
Multi-port design	M**
T body	T*
* For dimensions see T Valves brochure	
** Dimensions and versions on request or according to customer requirements	

Valve body material	Code
EN-GJS-400-18-LT (SG iron 40.3) PFA lined	17
EN-GJS-400-18-LT (SG iron 40.3) PP lined	18
1.4435 - BN2 (CF3M), investment casting Fe<0.5%	32
1.4435 (ASTM A 351 CF3M △ 316L) investment casting	34
1.4408, investment casting	37
1.4408, PFA lined	39
1.4435 (316L), forged body	40
1.4435 (BN2), forged body Fe<0.5%	42
EN-GJS-400-18-LT (SG iron 40.3) hard rubber lined	83

Connection	Code
Butt weld spigots	
Spigots DIN	0
Spigots DIN 11850, series 1	16
Spigots DIN 11850, series 2	17
Spigots DIN 11850, series 3	18
Spigots DIN 11866, series A	1A
Spigots DIN 11866, series B	1B
Spigots JIS-G 3447	35
Spigots JIS-G 3459	36
Spigots SMS 3008	37
Spigots BS 4825, part 1	55
Spigots ASME BPE	59
Spigots EN ISO 1127	60
Spigots ANSI/ASME B36.19M, Schedule 10s	63
Spigots ANSI/ASME B36.19M, Schedule 40s	65
Threaded connections	
Threaded sockets DIN ISO 228	1
Threaded spigots DIN 11851	6
One side threaded spigot, other side cone spigot and union nut, DIN 11851	62
Aseptic unions on request	

Diaphragm material	Code
FPM	4
EPDM	13
EPDM	14
EPDM	16
EPDM	17
PTFE/EPDM convex, PTFE loose	5E
PTFE/FPM convex, PTFE loose	5F
PTFE/EPDM, PTFE lamin.	52
For compatibility see overview on page 12	
Material complies with FDA requirements, except code 4 and 14	
The combination of PFA linings with 5E diaphragms is only conditionally suitable for gaseous media.	
If low seat leakage rates are required for gaseous media, other combinations are preferable.	

Flanges	
Flanges EN 1092 / PN16 / form B, length EN 558, series 1, ISO 5752, basic series 1	8
Flanges ANSI CLASS 125/150 RF length MSS SP-88	38
Flanges ANSI CLASS 125/150 RF length EN 558, series 1 ISO 5752, basic series 1	39
Clamp connections	
Clamps ASME BPE for pipe ASME BPE, length ASME BPE	80
Clamps DIN 32676 series B for pipe EN ISO 1127, length EN 558, series 7	82
Clamps ASME BPE for pipe ASME BPE, length EN 558, series 7	88
Clamps DIN 32676 series A for pipe DIN 11850, length EN 558, series 7	8A
Clamps SMS 3017 for pipe SMS 3008, length EN 558, series 7	8E
Aseptic clamps on request	
For overview of available valve bodies for GEMÜ 687 see page 12	

Control function	Code
Normally closed (NC)	1
Normally open (NO)	2
Double acting (DA)	3

Actuator size	Code
Diaphragm size 10	B/N
Diaphragm size 25	1/N
Diaphragm size 40	2/N
Diaphragm size 50	3/N
Diaphragm size 80	4/N
Diaphragm size 100	5/N

For further order data see page 5

Order data

Valve body surface finish, internal contour				
		Forged body Code 40, 42	Investment casting Code 32, 34	Code
Ra ≤ 6.3 µm	blasted internal/external	-	X	1500
--	electropolished	-	X	1509
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	X	1507
Ra ≤ 0.6 µm	electropolished internal/external	X	-	1508
Ra ≤ 0.4 µm	mechanically polished internal, blasted external	X	-	1536
Ra ≤ 0.4 µm	electropolished internal/external	X	-	1537
Ra ≤ 0.25 µm	mechanically polished internal, blasted external	X	-	1527
Ra ≤ 0.25 µm	electropolished internal/external	X	-	1516

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

Order example	687	25	D	60	40	13	1	1/N	1503
Type	687								
Nominal size		25							
Body configuration (code)			D						
Connection (code)				60					
Valve body material (code)					40				
Diaphragm material (code)						13			
Control function (code)							1		
Actuator size (code)								1/N	
Surface finish (code)									1503

Dimensions [mm]

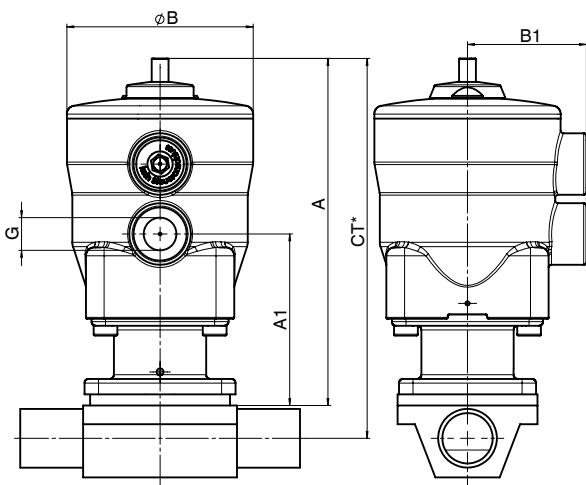
Actuator dimensions - control function 1 [mm]						
MG	Actuator size	Ø B	B1	A	A1	G
10	B/N	67	44	125	62	G 1/4
25	1/N	128	-	152	66	G 1/4
40	2/N	158	-	187	86	G 1/4
50	3/N	213	-	221	97	G 1/4
80	4/N	259	-	332	172	G 1/4
100	5/N	259	-	328	169	G 1/4
Weight [kg]						
0.53						
2.00						
3.90						
7.00						
15.00						
16.10						

MG = diaphragm size

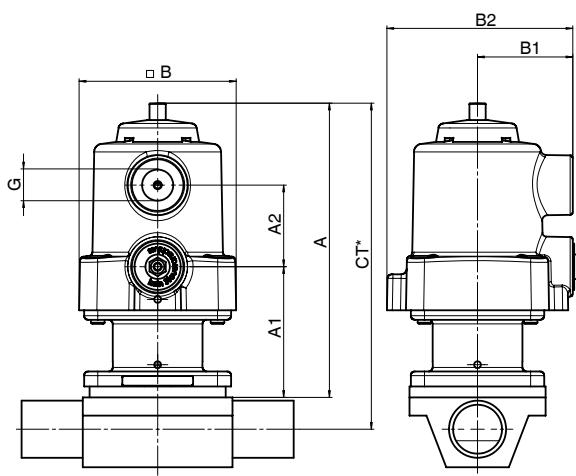
Actuator dimensions - control functions 2 + 3 [mm]						
MG	Actuator size	Ø B	A	A1	A2	G
10	B/N	57	110	49	30	35
25	1/N	128	117	66	28	-
40	2/N	158	143	84	27	-
50	3/N	213	167	96	28	-
80	4/N	258	282	170	45	-
100	5/N	258	278	165	45	-
G 1/4						
G 1/4						
G 1/4						
G 1/4						

MG = diaphragm size

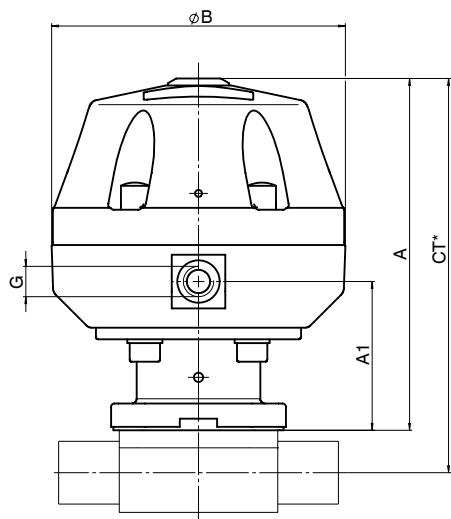
Control function 1 - Diaphragm size 10



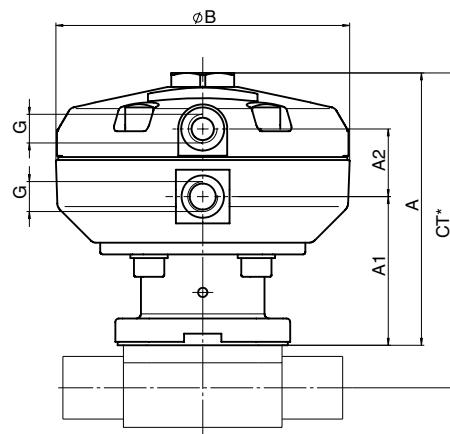
Control functions 2+3 - Diaphragm size 10



Control function 1 - Diaphragm size 25 - 100



Control functions 2+3 - Diaphragm size 25 - 100



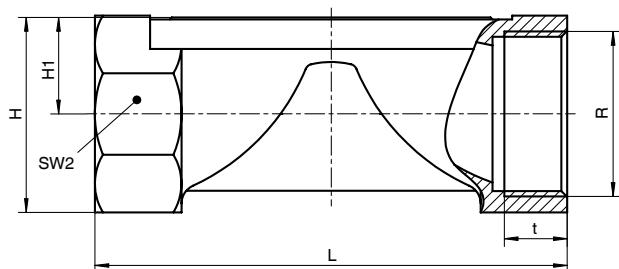
* CT = A + H1 (see body dimensions)

Body dimensions [mm]

Threaded sockets, connection code 1 Valve body material: Investment casting (code 34, 37)									
MG	DN	R	H	H1	t	L	SW2	Number of flats	Weight [kg]
10	12	G 3/8	23	10.5	13	55	22	2	0.17
	15	G 1/2	29	13.5	15	68	24	2	0.26
25	15	G 1/2	30	16.0	9	85	27	6	0.32
	20	G 3/4	33	17.0	10	85	32	6	0.34
40	25	G 1	37	17.0	13	110	41	6	0.39
	32	G 1 1/4	50	25.0	16	120	50	8	0.88
40	40	G 1 1/2	52	25.0	18	140	55	8	0.93
	50	G 2	69	34.0	18	165	70	8	1.56

MG = diaphragm size

For materials see overview on last page



Body dimensions [mm]

Butt weld spigots, connection code 0, 16, 17, 18 Valve body material: Investment casting (code 34), forged body (code 40)

MG	DN	NPS	f*	øg*	L	c	H1*	H1**	DIN Series 0 Code 0		DIN 11850 Series 1 Code 16		DIN 11850 Series 2 Code 17		DIN 11850 Series 3 Code 18		Weight [kg]	
									ød	s	ød	s	ød	s	ød	s		
10	10	3/8"	30	13.5	108	25	12.5		-	-	12	1.0	13	1.5	14	2.0	0.30	
	15	1/2"	30	13.5	108	25	12.5		18	1.5	18	1.0	19	1.5	20	2.0	0.30	
	20	3/4"	30	13.5	108	25	12.5		-	-	-	-	-	-	-	-	0.30	
25	15	1/2"	40	13.5	120	25	13.0	19.0	18	1.5	18	1.0	19	1.5	20	2.0	0.62	
	20	3/4"	40	13.5	120	25	16.0	19.0	22	1.5	22	1.0	23	1.5	24	2.0	0.58	
	25	1"	40	13.5	120	25	19.0	19.0	28	1.5	28	1.0	29	1.5	30	2.0	0.55	
40	32	11/4"	68	13.5	153	25	24.0	26.0	34	1.5	34	1.0	35	1.5	36	2.0	1.45	
	40	11/2"	75	13.5	153	25	26.0	26.0	40	1.5	40	1.0	41	1.5	42	2.0	1.32	
50	50	2"	90	13.5	173	30	32.0	32.0	52	1.5	52	1.0	53	1.5	54	2.0	2.25	
80	65	21/2"	-	-	216	30	-	62.0	-	-	-	-	70	2.0	-	-	8.60	
	80	3"	-	-	254	30	-	62.0	-	-	-	-	85	2.0	-	-	8.00	
100	100	4"	-	-	305	30	-	76.0	-	-	-	-	104	2.0	-	-	24.10	

* only for investment cast design

** only for forged design

MG = diaphragm size

For materials see overview on last page

Butt weld spigots, connection code 1A, 1B, 60

Valve body material: Investment casting (code 34), forged body (code 40)

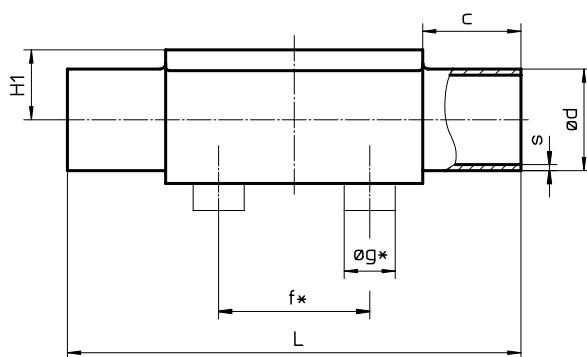
MG	DN	NPS	f*	øg*	L	c	H1*	H1**	DIN 11866 Series A Code 1A		DIN 11866 Series B Code 1B		EN ISO 1127 Code 60		Weight [kg]	
									ød	s	ød	s	ød	s		
10	10	3/8"	30	13.5	108	25	12.5		13	1.5	17.2	1.6	17.2	1.6	0.30	
	15	1/2"	30	13.5	108	25	12.5		19	1.5	21.3	1.6	21.3	1.6	0.30	
	20	3/4"	30	13.5	108	25	12.5		-	-	-	-	-	-	0.30	
25	15	1/2"	40	13.5	120	25	13.0	19.0	19	1.5	21.3	1.6	21.3	1.6	0.62	
	20	3/4"	40	13.5	120	25	16.0	19.0	23	1.5	26.9	1.6	26.9	1.6	0.58	
	25	1"	40	13.5	120	25	19.0	19.0	29	1.5	33.7	2.0	33.7	2.0	0.55	
40	32	11/4"	68	13.5	153	25	24.0	26.0	35	1.5	42.4	2.0	42.4	2.0	1.45	
	40	11/2"	75	13.5	153	25	26.0	26.0	41	1.5	48.3	2.0	48.3	2.0	1.32	
50	50	2"	90	13.5	173	30	32.0	32.0	53	1.5	60.3	2.0	60.3	2.0	2.25	
80	65	21/2"	-	-	216	30	-	62.0	70	2.0	76.1	2.0	76.1	2.0	8.60	
	80	3"	-	-	254	30	-	62.0	85	2.0	88.9	2.3	88.9	2.3	8.00	
100	100	4"	-	-	305	30	-	76.0	104	2.0	114.3	2.3	114.3	2.3	24.10	

* only for investment cast design

** only for forged design

MG = diaphragm size

For materials see overview on last page



Body dimensions [mm]

Butt weld spigots, connection code 35, 36, 37 Valve body material: Investment casting (code 34), forged body (code 40)												Weight [kg]				
MG	DN	NPS	f*	øg*	L	c	H1*	H1**	JIS-G 3447 Code 35		JIS-G 3459 Code 36		SMS 3008 Code 37			
									ød	s	ød	s	ød	s		
10	10	3/8"	30	13.5	108	25	12.5		-	-	17.3	1.65	-	-	0.30	
	15	1/2"	30	13.5	108	25	12.5		-	-	21.7	2.10	-	-	0.30	
	20	3/4"	30	13.5	108	25	12.5		-	-	-	-	-	-	0.30	
25	15	1/2"	40	13.5	120	25	13.0	19.0	-	-	21.7	2.10	-	-	0.62	
	20	3/4"	40	13.5	120	25	16.0	19.0	-	-	27.2	2.10	-	-	0.58	
	25	1"	40	13.5	120	25	19.0	19.0	25.4	1.2	34.0	2.80	25.0	1.2	0.55	
40	32	11/4"	68	13.5	153	25	24.0	26.0	31.8	1.2	42.7	2.80	33.7	1.2	1.45	
	40	11/2"	75	13.5	153	25	26.0	26.0	38.1	1.2	48.6	2.80	38.0	1.2	1.32	
50	50	2"	90	13.5	173	30	32.0	32.0	50.8	1.5	60.5	2.80	51.0	1.2	2.25	
80	65	21/2"	-	-	216	30	-	62.0	63.5	2.0	76.3	3.00	63.5	1.6	8.60	
	80	3"	-	-	254	30	-	62.0	76.3	2.0	89.1	3.00	76.1	1.6	8.00	
100	100	4"	-	-	305	30	-	76.0	101.6	2.0	114.3	3.00	101.6	2.0	24.10	

* only for investment cast design

** only for forged design

MG = diaphragm size

For materials see overview on last page

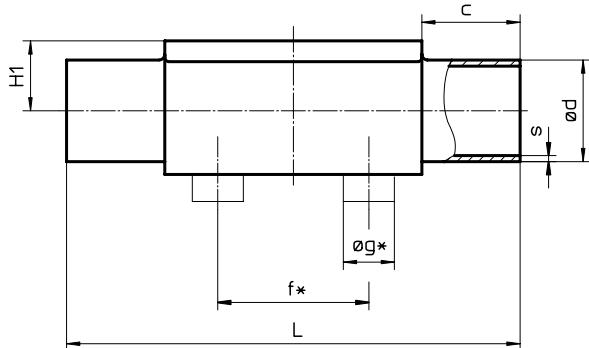
Butt weld spigots, connection code 55, 59, 63, 65 Valve body material: Investment casting (code 34), forged body (code 40)												Weight [kg]						
MG	DN	NPS	f*	øg*	L	c	H1*	H1**	BS 4825 Code 55		ASME BPE Code 59		ANSI/ASME B36.19M 10s Code 63		ANSI/ASME B36.19M 40s Code 65			
									ød	s	ød	s	ød	s	ød	s		
10	10	3/8"	30	13.5	108	25	12.5		9.53	1.2	9.53	0.89	17.1	1.65	17.1	2.31	0.30	
	15	1/2"	30	13.5	108	25	12.5		12.70	1.2	12.70	1.65	21.3	2.11	21.3	2.77	0.30	
	20	3/4"	30	13.5	108	25	12.5		19.05	1.2	19.05	1.65	-	-	-	-	0.30	
25	15	1/2"	40	13.5	120	25	13.0	19.0	-	-	-	-	21.3	2.11	21.3	2.77	0.62	
	20	3/4"	40	13.5	120	25	16.0	19.0	19.05	1.2	19.05	1.65	26.7	2.11	26.7	2.87	0.58	
	25	1"	40	13.5	120	25	19.0	19.0	-	-	25.40	1.65	33.4	2.77	33.4	3.38	0.55	
40	32	11/4"	68	13.5	153	25	24.0	26.0	-	-	-	-	42.2	2.77	42.2	3.56	1.45	
	40	11/2"	75	13.5	153	25	26.0	26.0	-	-	38.10	1.65	48.3	2.77	48.3	3.68	1.32	
50	50	2"	90	13.5	173	30	32.0	32.0	-	-	50.80	1.65	60.3	2.77	60.3	3.91	2.25	
80	65	21/2"	-	-	216	30	-	62.0	-	-	63.50	1.65	73.0	3.05	73.0	5.16	8.60	
	80	3"	-	-	254	30	-	62.0	-	-	76.20	1.65	88.9	3.05	88.9	5.49	8.00	
100	100	4"	-	-	305	30	-	76.0	-	-	101.60	2.11	114.3	3.05	114.3	6.02	24.10	

* only for investment cast design

** only for forged design

MG = diaphragm size

For materials see overview on last page



Body dimensions [mm]

Flanges - DIN EN 1092, connection code 8

Valve body material: SG iron 40.3 (code 17, 18, 83), 1.4435 (code 34, 40), 1.4408 (code 39)

MG	DN	ϕD	ϕk	ϕL	Number of bolts	H1			FTF	Weight [kg]
						Material code 17, 18, 39, 83	Material code 34	Material code 40		
25	15	95	65	14	4	18.0	13.0	19.0	130*	1.85
	20	105	75	14	4	20.5	16.0	19.0	150	2.35
	25	115	85	14	4	23.0	19.0	19.0	160	2.85
40	32	140	100	18	4	28.7	24.0	26.0	180	4.90
	40	150	110	18	4	33.0	26.0	26.0	200	5.65
50	50	165	125	18	4	39.0	32.0	32.0	230	7.45
80	65	185	145	18	4	51.0	-	62.0	290	10.20
	80	200	160	18	8	59.5	-	62.0	310	14.20
100	100	220	180	18	8	73.0	-	76.0	350	21.00

*Material code 34, 40 FTF = 150 (no DIN length)

MG = diaphragm size

For materials see overview on last page

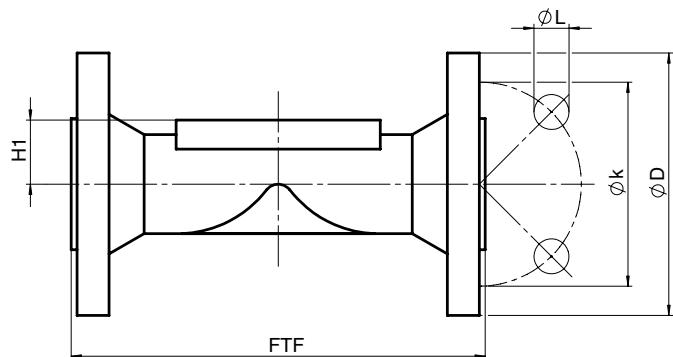
Flanges - ANSI class 150 RF, connection code 38, 39

Valve body material: SG iron 40.3 (code 17, 18, 83), 1.4435 (code 34, 40), 1.4408 (code 39)

MG	DN	ϕD	ϕk	ϕL	Number of bolts	H1			FTF		Weight [kg]
						Material code 17, 18, 39, 83	Material code 34	Material code 40	Connection code 38	Connection code 39	
25	15	90	60.3	15.9	4	18.0	13.0	19.0	-	130	1.85
	20	100	69.9	15.9	4	20.5	16.0	19.0	146	150	2.35
	25	110	79.4	15.9	4	23.0	19.0	19.0	146	160	2.85
40	32	115	88.9	15.9	4	28.7	24.0	26.0	-	180	4.90
	40	125	98.4	15.9	4	33.0	26.0	26.0	175	200	5.65
50	50	150	120.7	19.0	4	39.0	32.0	32.0	200	230	7.45
80	65	180	139.7	19.0	4	51.0	-	62.0	226	290	10.20
	80	190	152.4	19.0	4	59.5	-	62.0	260	310	14.20
100	100	230	190.5	19.0	8	73.0	-	76.0	327	350	21.00

MG = diaphragm size

For materials see overview on last page



Body dimensions [mm]

Threaded connections, connection code 6, 62 Valve body material: investment casting (code 34), forged body (code 40)

MG	DN	H1*	H1**	f*	øg*	ød1	Thread to DIN 405 R	Code 6 L	Code 62 L	Weight [kg]
10	10	12.5	-	30.0	13.5	10.0	RD 28 x 1/8	118	116	0.33
	15	12.5	-	30.0	13.5	16.0	RD 34 x 1/8	118	116	0.35
	15	13.0	19	40.0	13.5	16.0	RD 34 x 1/8	118	116	0.71
	20	16.0	19	40.0	13.5	20.0	RD 44 x 1/6	118	114	0.78
25	25	19.0	19	40.0	13.5	26.0	RD 52 x 1/6	128	127	0.79
	32	24.0	26	68.0	13.5	32.0	RD 58 x 1/6	147	147	1.66
	40	26.0	26	75.0	13.5	38.0	RD 65 x 1/6	160	160	1.62
	50	32.0	32	90.0	13.5	50.0	RD 78 x 1/6	191	191	2.70
50	65	-	62	-	-	66.0	RD 95 x 1/6	246	246	9.22
	80	-	62	-	-	81.0	RD 110 x 1/4	256	256	9.20

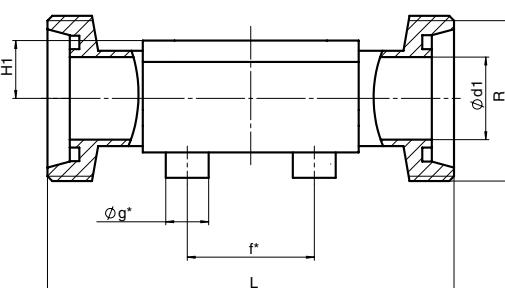
* only for investment cast design

** only for forged design

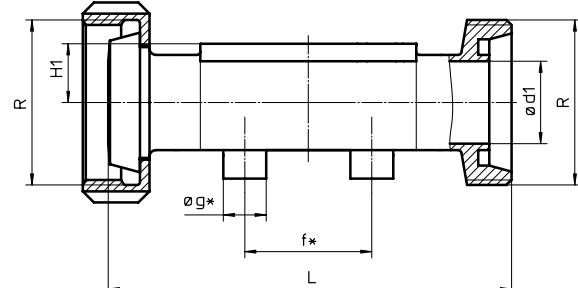
For materials see overview on last page

MG = diaphragm size

Code 6



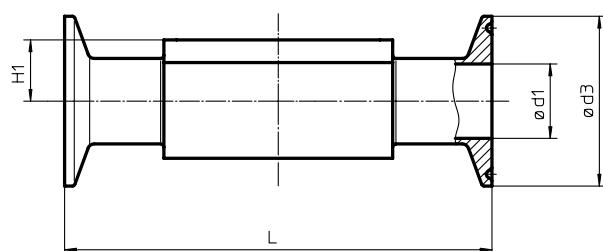
Code 62



Clamp connections, connection code 80, 82, 88, 8A, 8E Valve body material: Forged body (code 40)

				for pipe ASME BPE Code 80			for pipe EN ISO 1127 Code 82			for pipe ASME BPE Code 88			for pipe DIN 11850 Code 8A			for pipe SMS 3008 Code 8E			Weight [kg]
MG	DN	NPS	H1	ød1	ød3	L	ød1	ød3	L	ød1	ød3	L	ød1	ød3	L	ød1	ød3	L	
10	10	3/8"	12.5	-	-	-	14.0	25.0	108.0	-	-	-	10	34.0	108.0	-	-	-	0.30
	15	1/2"	12.5	9.40	25.0	88.9	18.1	50.5	108.0	9.40	25.0	108	16	34.0	108.0	-	-	-	0.43
	20	3/4"	12.5	15.75	25.0	101.6	-	-	-	15.75	25.0	117	-	-	-	-	-	-	0.43
	15	1/2"	19.0	-	-	-	18.1	50.5	108.0	-	-	-	16	34.0	108.0	-	-	-	0.75
25	20	3/4"	19.0	15.75	25.0	101.6	23.7	50.5	117.0	15.75	25.0	117	20	34.0	117.0	-	-	-	0.71
	25	1"	19.0	22.10	50.5	114.3	29.7	50.5	127.0	22.10	50.5	127	26	50.5	127.0	22.6	50.5	127	0.63
40	32	1 1/4"	26.0	-	-	-	38.4	64.0	146.0	-	-	-	32	50.5	146.0	31.3	50.5	146	1.62
	40	1 1/2"	26.0	34.80	50.5	139.7	44.3	64.0	159.0	34.80	50.5	159	38	50.5	159.0	35.6	50.5	159	1.50
50	50	2"	32.0	47.50	64.0	158.8	56.3	77.5	190.0	47.50	64.0	190	50	64.0	190.0	48.6	64.0	190	2.50
	65	2 1/2"	62.0	60.20	77.5	193.8	72.1	91.0	216.0	60.20	77.5	216	66	91.0	216.0	60.3	77.5	216	8.90
80	80	3"	62.0	72.90	91.0	222.3	84.3	106.0	254.0	72.90	91.0	254	81	106.0	254.0	72.9	91.0	254	8.50
	100	4"	76.0	97.38	119.0	292.1	109.7	130.0	305.0	97.38	119.0	305	100	119.0	305.0	97.6	119.0	305	24.80

MG = diaphragm size



Overview of valve bodies for GEMÜ 687

		Threaded connections			Spigots													
Connection code		1	6	62	0	16	17	18	1A	1B	35	36	37	55	59	60	63	65
Material code		34	37	34	40	34	40	34	40	34	40	40	40	34	40	34	40	34
MG	DN																	
	10	-	-	W	W	W	W	-	-	X	X	X	X	X	X	-	-	X
10	12	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15	X	-	W	W	W	W	X	X	X	X	X	X	X	-	-	X	X
10	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X
	25	15	-	X	W	W	W	W	X	X	X	X	X	X	-	-	X	X
10	25	20	-	X	W	W	W	W	X	X	X	X	X	X	-	X	X	X
	32	25	-	X	W	W	W	W	X	X	X	X	X	X	-	-	X	X
10	40	32	-	X	W	W	W	W	X	X	X	X	X	X	-	-	X	X
	40	40	-	X	W	W	W	W	X	X	X	X	X	X	-	X	X	X
10	50	50	-	X	W	W	W	W	X	X	X	X	X	X	-	-	X	X
	65	65	-	-	W	-	W	-	-	-	X	-	X	X	-	-	X	-
10	80	80	-	-	W	-	W	-	-	-	X	-	X	X	-	-	X	-
	100	100	-	-	-	-	-	-	-	-	X*	-	X*	X*	-	X*	-	X*

*Valve bodies are not suitable for use with diaphragms code 5E.

X = Standard

W = Welded construction

MG = diaphragm size

Should there be any doubts or misunderstandings, the German version of this data sheet is the authoritative document!

Overview of valve bodies for GEMÜ 687

		Clamps					Flanges												39			
Connection code		80	82	88	8A	8E	8				38				39				39			
Material code		40	40	40	40	40	17	18	34	39	40	83	17	18	39	83	17	18	34	39	40	83
MG	DN																					
	10	-	K	-	K	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10	15	K	W	K	K	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	20	K	-	K	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	15	-	W	-	K	-	X	X	W	X	W	X	-	-	-	-	X	X	W	X	W	
10	20	K	K	K	K	-	X	X	W	X	W	X	X	X	X	X	X	X	W	X	W	
	25	K	K	K	K	K	X	X	W	X	W	X	X	X	X	X	X	X	W	X	W	
	32	-	W	-	K	K	X	X	W	X	W	X	-	-	-	-	X	X	W	X	W	
10	40	K	W	K	K	K	X	X	W	X	W	X	X	X	X	X	X	X	W	X	W	
	50	K	W	K	K	K	X	X	W	X	W	X	X	X	X	X	X	X	W	X	W	
	65	K	K	K	K	K	-	-	-	W	-	-	-	-	-	-	-	-	-	W	-	
10	80	K	W	K	W	W	X	X	-	X	W	X	X	X	X	X	X	X	X	W	X	
	100	100	W*	W*	W*	W*	W*	X	X	-	X	W*	X	X	X	X	X	X	-	X	W*	

*Valve bodies are not suitable for use with diaphragms code 5E.

X = Standard

K = Connections completely machined (not welded)

MG = diaphragm size

W = Welded construction

Connection code 38 / Material code 18 on request

Availability of material code 32 same as code 34, code 42 same as code 40

Overview of diaphragm materials for GEMÜ 687

		Diaphragm material						
Diaphragm size		FPM	EPDM	EPDM	EPDM	EPDM	PTFE/EPDM	PTFE/FPM
10		4	13	14	16	17	52	-
25		4	13	14	16	17	5E	5F
40		4	13	14	16	17	5E	5F
50		4	13	14	16	17	5E	5F
80		4	13	14	-	17	5E	5F
100		4	13	14	-	17	52	-

For further metal diaphragm valves, accessories and other products, please see our Product Range catalogue and Price List. Contact GEMÜ.

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