Diaphragm Valve, Metal

Construction

The GEMÜ 611 and 671 manually operated 2/2-way metal diaphragm valves have a low maintenance plastic bonnet and an integral optical position indicator as standard.

Features

- Suitable for inert and corrosive* liquid and gaseous media
- Chemical resistance of bonnet
- Insensitive to particulate media
- Valve body and diaphragm available in various materials and designs
- Compact design (ideal when space is at a premium)

Advantages

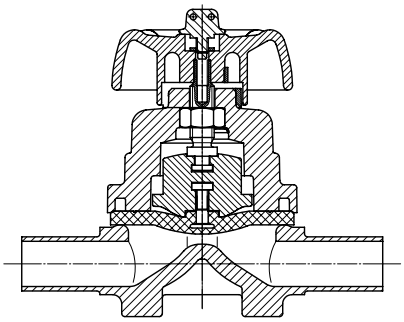
- Hermetic separation between medium and bonnet
- Optional flow direction
- Installation for an optimized draining is possible
- Optional accessories for 671:
  - Electrical remote indication that the valve is in the open position
  - Lockable handwheel clamp

*see information on working medium on page 2

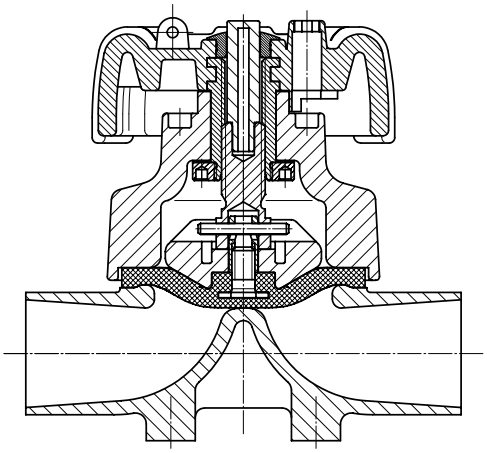
GEMÜ 611

GEMÜ 671

Sectional drawing



GEMÜ 611



GEMÜ 671

GEMÜ® 611, 671

Technical data

Working medium

Corrosive, inert, gaseous and liquid media which have no negative impact on the physical and chemical properties of the body and diaphragm material.

Temperatures

Media temperature	14 ... 176 °F
Ambient temperature	32 ... 140 °F

Type	Diaphragm size	Operating pressure [psi]	
		EPDM	PTFE
GEMÜ 611	10	0 - 150	0 - 90
GEMÜ 671	25 - 100	0 - 150	0 - 90

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.

Cv values [gpm]

	Pipe standard		DIN	EN 10357 series B (formerly DIN 11850 series 1)	EN 10357 series A (formerly DIN 11850 series 2) / DIN 11866 series A	DIN 11850 Series 3	SMS 3008	ASME BPE / DIN 11866 series C	ISO 1127 / EN 10357 series C / DIN 11866 series B	DIN ISO 228	NPT
	Connection code		0	16	17	18	37	59	60	1	31
Type	MG	DN									
GEMÜ 611	10	10	-	2.8	2.8	2.8	-	2.6	3.9	-	-
		12	-	-	-	-	-	-	-	-	3.7
		15	3.9	4.4	4.4	4.4	-	2.6	4.7	-	4.0
		20	-	-	-	-	-	4.4	-	-	-
GEMÜ 671	25	15	4.8	5.5	5.5	5.5	-	-	8.7	7.6	7.6
		20	7.4	8.2	8.2	8.2	-	5.1	15.4	11.7	11.7
		25	16.3	17.5	17.5	17.5	14.7	14.3	19	16.4	16.4
	40	32	29.6	31.6	31.6	31.6	30.7	-	35.1	30.4	30.4
		40	34.3	36.2	36.2	36.2	35.3	34.5	38.4	38.6	38.6
	50	50	54.4	56.6	56.6	56.6	60.5	59.2	64.6	70.2	70.2
		65	-	-	-	-	72.8	72.3	-	-	-
	80	65	-	-	90.1	-	80.1	80.1	112.3	-	-
		80	-	-	129.9	-	93.6	101.8	129.9	-	-
	100	100	-	-	227.0	-	202.4	220.0	250.4	-	-

MG = diaphragm size
Cv values determined acc. to inlet pressure 75 psi, Δp 1 psi, stainless steel valve body (forged body) and soft elastomer diaphragm. The Cv values for other product configurations (e.g. other diaphragm or body materials) may differ. In general, all diaphragms are subject to the influences of pressure, temperature, the process and their tightening torques. Therefore the Cv values may exceed the tolerance limits of the standard.

The Kv value curve (Kv value dependent on valve stroke) can vary depending on the diaphragm material and duration of use.

Technical data

Cv values [gpm]				
Typ	**MG**	**DN**	**GGG 40.3**	**PFA / PP**
GEMÜ 671	25	15	9.4	5.9
		20	13.5	10.5
		25	13.5	15.2
	40	32	32.8	26.9
		40	32.8	30.4
	50	50	70.2	55.0

MG = diaphragm size
Cv values determined acc. to inlet pressure 75 psi, Δp 1 psi, with connection flange EN 1092 length EN 558 series 1 (or threaded socket DIN ISO 228 for body material GGG40.3) and soft elastomer diaphragm.
The Cv values for other product configurations (e.g. other diaphragm or body materials) may differ. In general, all diaphragms are subject to the influences of pressure, temperature, the process and their tightening torques. Therefore the Cv values may exceed the tolerance limits of the standard.

The Kv value curve (Kv value dependent on valve stroke) can vary depending on the diaphragm material and duration of use.

Order data

Valve type	Code
GEMÜ 611 diaphragm size 10	611
GEMÜ 671 diaphragm size 25 - 100	671

Nominal size		Code
DN 10	NPS 3/8“	10
DN 12	G 3/8“	12
DN 15	NPS 1/2“	15
DN 20	NPS 3/4“	20
DN 25	NPS 1“	25
DN 32	NPS 1 1/4“	32
DN 40	NPS 1 1/2“	40
DN 50	NPS 2“	50
DN 65	NPS 2 1/2“	65
DN 80	NPS 3“	80
DN 100	NPS 4“	100

Body configuration	Code
2/2-way body	D

Connection	Code
Butt weld spigots	
Spigots DIN	0
Spigots EN 10357 series B (formerly DIN 11850 series 1)	16
Spigot EN 10357 series A (formerly DIN 11850 series 2) / DIN 11866 series A	17
Spigots DIN 11850 series 3	18
Spigots JIS-G 3447	35
Spigots JIS-G 3459	36
Spigots SMS 3008	37
Spigots BS 4825 Part 1	55
Spigot ASME BPE / DIN 11866 series C	59
Spigot ISO 1127 / EN 10357 series C / DIN 11866 series B	60
Spigots ANSI/ASME B36.19M Schedule 10s	63
Spigots ANSI/ASME B36.19M Schedule 15s	64
Spigots ANSI/ASME B36.19M Schedule 40s	65
Threaded connections	
Threaded sockets DIN ISO 228	1
Threaded sockets NPT	31
Threaded spigots DIN 11851	6
Cone spigot and union nut DIN 11851	6K
Aseptic unions on request	
Flanges (GEMÜ 671)	
Flanges EN 1092 / PN16 / form B, length EN 558, series 1, ISO 5752, basic series 1	8
Flanges ANSI Class 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
Clamps DIN 32676 series C, length FTF ASME BPE	8P
Clamps DIN 32676 series C, length FTF EN 558 series 7	8T
Aseptic clamps on request	
Overview of available valve bodies see page 13, 14	

Valve body material	Code
CW617N (brass)	12
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, investment casting	C3
1.4408, investment casting	37
1.4408, PFA lined	39
1.4435 (316L), forged body	40
1.4435 (BN2), forged body Δ Fe<0,5%	42
EN-GJS-400-18-LT (GGG 40.3)	90
1.4539, forged body	F4

Diaphragm material	Code
FKM	4
EPDM	13
EPDM	17
EPDM	19
EPDM	29
EPDM	36
PTFE/EPDM, one-piece	54
PTFE/EPDM, two-piece	5M*
PTFE/PVDF/EPDM, three-piece	71**
* Code 5M available from diaphragm size 25	
** Code 71 only available for bodies with PFA lining (code 17 and code 39)	
Material complies with FDA requirements, except code 4 and 29	

Control function	Code
Manually operated GEMÜ 611, 671	0
Manually operated (lockable handwheel) only GEMÜ 671	L

Bonnet version	Code
Bonnet size 2 for diaphragm size 25	2
Bonnet size 3 for diaphragm size 40	3
Bonnet size 4 for diaphragm size 50	4
Bonnet size 2Z for diaphragm size 25 Mounting for electrical position indicator GEMÜ 1215	2Z
Bonnet size 3Z for diaphragm size 40 Mounting for electrical position indicator GEMÜ 1215	3Z
Bonnet size 4Z for diaphragm size 50 Mounting for electrical position indicator GEMÜ 1215	4Z
Bonnet size 5Z for diaphragm size 80 Mounting for electrical position indicator GEMÜ 1215	5Z
Bonnet size 6Z for diaphragm size 100 Mounting for electrical position indicator GEMÜ 1215	6Z

Order data

Internal surface finishes for forged and block material bodies [1]

Readings for Process Contact Surfaces	Mechanically polished [2]		Electropolished	
	Hygienic class DIN 11866	Code	Hygienic class DIN 11866	Code
Ra ≤ 0,80 µm	H3	1502	HE3	1503
Ra ≤ 0,60 µm	-	1507	-	1508
Ra ≤ 0,40 µm	H4	1536	HE4	1537
Ra ≤ 0,25 µm [3]	H5	1527	HE5	1516

Readings for Process Contact Surfaces acc. to ASME BPE 2016 [4]	Mechanically polished [2]		Electropolished	
	ASME BPE Surface Designation	Code	ASME BPE Surface Designation	Code
Ra Max. = 0,76 µm (30 µinch)	SF3	SF3	-	-
Ra Max. = 0,64 µm (25 µinch)	SF2	SF2	SF6	SF6
Ra Max. = 0,51 µm (20 µinch)	SF1	SF1	SF5	SF5
Ra Max. = 0,38 µm (15 µinch)	-	-	SF4	SF4

Internal surface finishes for investment cast bodies

Readings for Process Contact Surfaces	Mechanically polished [2]	
	Hygienic class DIN 11866	Code
Ra ≤ 6,30 µm	-	1500
Ra ≤ 0,80 µm	H3	1502
Ra ≤ 0,60 µm [5]	-	1507

[1] Surface finishes of customized valve bodies may be limited in special cases.
[2] Or any other finishing method that meets the Ra value (acc. to ASME BPE).
[3] The smallest possible Ra finish for 1/4“ (DN 8) BS 4825 Part 1 and ASME BPE is 15 µinch.
[4] When using these surfaces, the bodies are marked according to the specifications of ASME BPE.
The surfaces are only available for valve bodies which are made of materials (e.g. GEMÜ material codes 40, 41, F4, 44) and use connections (e.g. GEMÜ connection codes 59, 80, 88) according to ASME BPE.
[5] Not possible for GEMÜ connection code 59, DN 8 and GEMÜ connection code 0, DN 4.

Ra acc. to DIN EN ISO 4288 and ASME B46.1

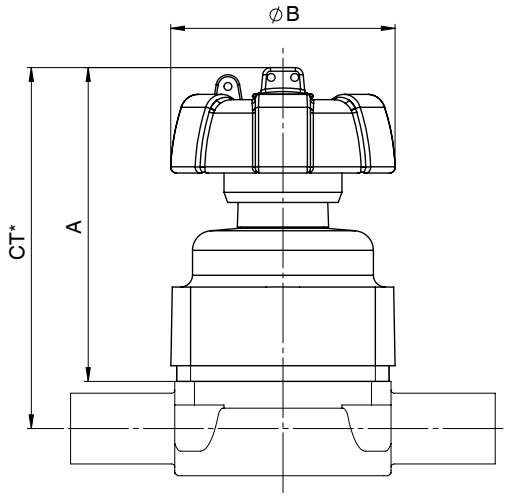
Order example	671	25	D	60	C3	17	0	2	1500
Type	671								
Nominal size		25							
Body configuration (code)			D						
Connection (code)				60					
Valve body material (code)					C3				
Diaphragm material (code)						17			
Control function (code)							0		
Bonnet version (code)								2	
Surface finish (code)									1500

Dimensions [inch]

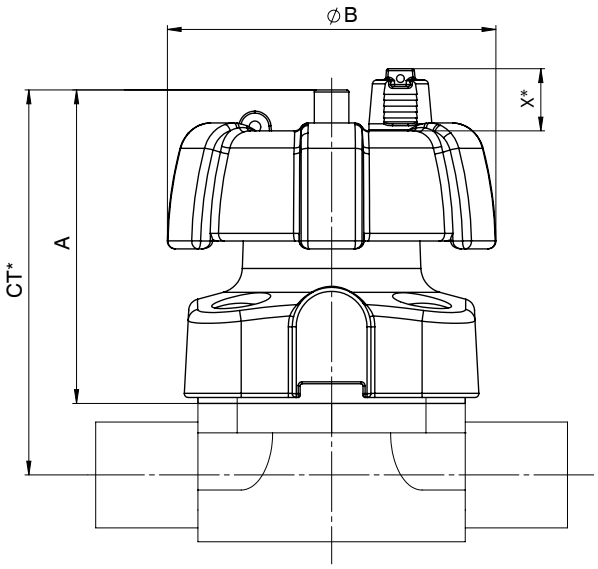
Bonnet dimensions								
Type	**MG**	**DN**	**Ø B**	**A**	**X***	**A2**	**M**	**Weight [lbs]**
GEMÜ 611	10	10 - 20	2.36	3.15	-	-	-	0.3
GEMÜ 671	25	15 - 25	3.54	3.11	0.55	0.79	M16x1	0.9
	40	32 - 40	4.49	3.90	0.55	0.94	M16x1	1.3
	50	50 - 65	5.51	4.69	0.31	1.10	M16x1	2.2
	80	65 - 80	8.43	6.57	0.67	1.65	M16x1	8.4
	100	100	8.43	8.50	0.98	2.28	M16x1	11.2

* only with control function code L MG = diaphragm size

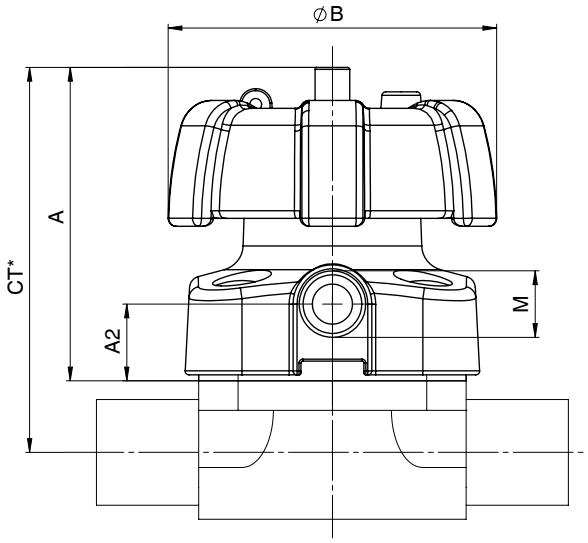
GEMÜ 611



GEMÜ 671



GEMÜ 671
Special version - Accessory Code Z



* CT = A + H1 (see body dimensions)

Body dimensions [inch]

Butt weld spigots, connection code 0, 16, 17, 18
Valve body material: Investment casting (code C3), forged body (code 40, F4)

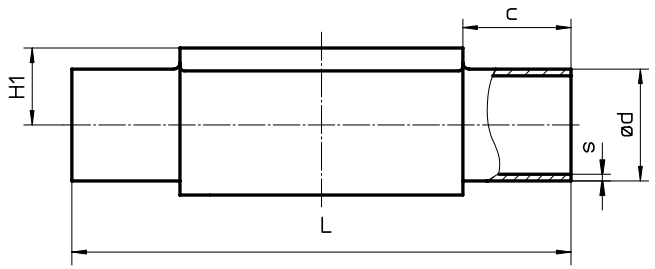
Pipe standard								DIN		EN 10357 series B (formerly DIN 11850 series 1)		EN 10357 series A (formerly DIN 11850 series 2) / DIN 11866 series A		DIN 11850 Series 3		Weight [lbs]
Connection code								0		16		17		18		
Type	MG	DN	NPS	L	c	H1*	H1**	ød	s	ød	s	ød	s	ød	s	
GEMÜ 611	10	10	3/8”	4.25	0.98	0.49		-	-	0.472	0.039	0.512	0.059	0.551	0.079	0.7
		15	1/2”	4.25	0.98	0.49		0.709	0.059	0.709	0.039	0.748	0.059	0.787	0.079	0.7
GEMÜ 671	25	15	1/2”	4.72	0.98	0.51	0.75	0.709	0.059	0.709	0.039	0.748	0.059	0.787	0.079	1.4
		20	3/4”	4.72	0.98	0.63	0.75	0.866	0.059	0.866	0.039	0.906	0.059	0.945	0.079	1.3
		25	1”	4.72	0.98	0.75	0.75	1.102	0.059	1.102	0.039	1.142	0.059	1.181	0.079	1.2
	40	32	1 1/4”	6.02	0.98	0.94	1.02	1.339	0.059	1.339	0.039	1.378	0.059	1.417	0.079	3.2
		40	1 1/2”	6.02	0.98	1.02	1.02	1.575	0.059	1.575	0.039	1.614	0.059	1.654	0.079	2.9
	50	50	2”	6.81	1.18	1.26	1.26	2.047	0.059	2.047	0.039	2.087	0.059	2.126	0.079	5.0
	80	65	2 1/2”	8.50	1.18	-	2.44	-	-	-	-	2.756	0.079	-	-	19.0
		80	3”	10.00	1.18	-	2.44	-	-	-	-	3.346	0.079	-	-	17.6
	100	100	4”	12.01	1.18	-	2.99	-	-	-	-	4.094	0.079	-	-	53.1

* only for investment cast design ** only for forged design MG = diaphragm size
For materials see overview on page 13

Butt weld spigots, connection code 60
Valve body material: Investment casting (code C3), forged body (code 40, F4)

Pipe standard								ISO 1127 / EN 10357 series C / DIN 11866 series B		Weight [lbs]
Connection code								60		
Type	MG	DN	NPS	L	c	H1*	H1**	ød	s	
GEMÜ 611	10	10	3/8”	4.25	0.98	0.49	0.49	0.677	0.063	0.7
		15	1/2”	4.25	0.98	0.49	0.49	0.839	0.063	0.7
GEMÜ 671	25	15	1/2”	4.72	0.98	0.51	0.75	0.839	0.063	1.4
		20	3/4”	4.72	0.98	0.63	0.75	1.059	0.063	1.3
		25	1”	4.72	0.98	0.75	0.75	1.327	0.079	1.2
	40	32	1 1/4”	6.02	0.98	0.94	1.02	1.669	0.079	3.2
		40	1 1/2”	6.02	0.98	1.02	1.02	1.902	0.079	2.9
	50	50	2”	6.81	1.18	1.26	1.26	2.374	0.079	5.0
	80	65	2 1/2”	8.5	1.18	-	2.44	2.996	0.079	19.0
		80	3”	10	1.18	-	2.44	3.500	0.091	17.6
	100	100	4”	12.01	1.18	-	2.99	4.500	0.091	53.1

* only for investment cast design ** only for forged design MG = diaphragm size
For materials see overview on page 13



Body dimensions [inch]

Butt weld spigots, connection code 35, 36, 37
Valve body material: Investment casting (code C3), forged body (code 40, F4)

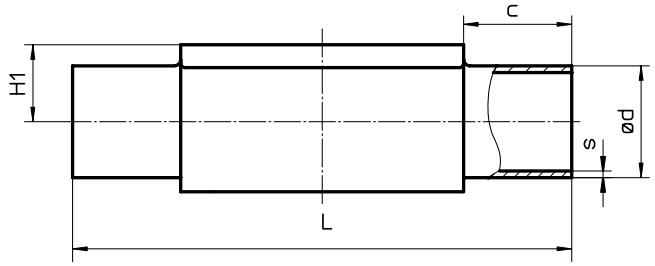
Pipe standard								JIS-G 3447		JIS-G 3459		SMS 3008		Weight [lbs]
Connection code								35		36		37		
Type	MG	DN	NPS	L	c	H1*	H1**	ød	s	ød	s	ød	s	
GEMÜ 611	10	10	3/8”	4.25	0.98	-	0.49	-	-	0.681	0.065	-	-	0.7
		15	1/2”	4.25	0.98	-	0.49	-	-	0.854	0.083	-	-	0.7
GEMÜ 671	25	15	1/2”	4.72	0.98	-	0.75	-	-	0.854	0.083	-	-	1.4
		20	3/4”	4.72	0.98	-	0.75	-	-	1.071	0.083	-	-	1.3
		25	1”	4.72	0.98	0.75	0.75	1	0.047	1.339	0.110	0.984	0.047	1.2
	40	32	1 1/4”	6.02	0.98	-	1.02	1.252	0.047	1.681	0.110	1.327	0.047	3.2
		40	1 1/2”	6.02	0.98	1.02	1.02	1.500	0.047	1.913	0.110	1.496	0.047	2.9
	50	50	2”	6.81	1.18	1.26	1.26	2.000	0.059	2.382	0.110	2.008	0.047	5.0
		65	2 1/2”	6.81	1.18	-	1.34	2.500	0.079	-	-	2.500	0.063	4.8
	80	65	2 1/2”	8.5	1.18	-	2.44	2.500	0.079	3.004	0.118	2.500	0.063	19.0
		80	3”	10	1.18	-	2.44	3.004	0.079	3.508	0.118	2.996	0.063	17.6
	100	100	4”	12.01	1.18	-	2.99	4.000	0.079	4.500	0.118	4.000	0.079	53.1

* only for investment cast design ** only for forged design MG = diaphragm size
For materials see overview on page 13

Butt weld spigots, connection code 55, 59, 63, 64, 65
Valve body material: Investment casting (code C3), forged body (code 40, F4)

Pipe standard								BS 4825 Part 1		ASME BPE / DIN 11866 series C		ANSI/ASME B36.19M Schedule 10s		ANSI/ASME B36.19M Schedule 5s		ANSI/ASME B36.19M Schedule 40s		Weight [lbs]
Connection code								55		59		63		64		65		
Type	MG	DN	NPS	L	c	H1*	H1**	ød	s	ød	s	ød	s	ød	s	ød	s	
GEMÜ 611	10	10	3/8”	4.25	0.98	-	0.49	0.375	0.047	0.375	0.035	0.673	0.065	-	-	0.673	0.091	0.66
		15	1/2”	4.25	0.98	-	0.49	0.500	0.047	0.500	0.065	0.839	0.083	0.839	1.65	0.839	0.109	0.66
		20	3/4”	4.25	0.98	0.49	0.49	0.750	0.047	0.750	0.065	-	-	-	-	-	-	0.66
GEMÜ 671	25	15	1/2”	4.72	0.98	-	0.75	-	-	-	-	0.839	0.083	0.839	1.65	0.839	0.109	1.4
		20	3/4”	4.72	0.98	0.63	0.75	0.750	0.047	0.750	0.065	1.051	0.083	1.051	1.65	1.051	0.113	1.3
		25	1”	4.72	0.98	0.75	0.75	-	-	1.000	0.065	1.315	0.109	1.315	1.65	1.315	0.133	1.2
	40	32	1 1/4”	6.02	0.98	-	1.02	-	-	-	-	1.661	0.109	1.661	1.65	1.661	0.140	3.2
		40	1 1/2”	6.02	0.98	1.02	1.02	-	-	1.500	0.065	1.902	0.109	1.902	1.65	1.902	0.145	2.9
	50	50	2”	6.81	1.18	1.26	1.26	-	-	2.000	0.065	2.374	0.109	2.374	1.65	2.374	0.154	5.0
		65	2 1/2”	6.81	1.18	-	1.34	-	-	2.500	0.065	-	-	-	-	-	-	4.6
	80	65	2 1/2”	8.5	1.18	-	2.44	-	-	2.500	0.065	2.874	0.120	2.874	2.11	2.874	0.203	19.0
		80	3”	10	1.18	-	2.44	-	-	3.000	0.065	3.500	0.120	3.500	2.11	3.500	0.216	17.6
	100	100	4”	12.01	1.18	-	2.99	-	-	4.000	0.083	4.500	0.120	4.500	2.11	4.500	0.237	53.1

* only for investment cast design ** only for forged design MG = diaphragm size
For materials see overview on page 13



Body dimensions [inch]

Threaded sockets, connection code 1
Valve body material: brass (code 12), investment casting (code 37)

Type	MG	DN	R	Material code 12						Material code 37						Weight [lbs]
				H	H1	t	L	SW2	Number of flats	H	H1	t	L	SW2	Number of flats	
GEMÜ 611	10	12	G 3/8	0.91	0.43	0.51	2.17	22	2	0.98	0.51	0.47	2.17	22	2	0.4
		15	G 1/2	1.14	0.55	0.59	2.95	25	2	1.18	0.59	0.59	2.68	27	2	0.6

MG = diaphragm size For materials see overview on page 14

Threaded sockets, connection code 1
Valve body material: investment casting (code 37), GGG40.3 (code 90)

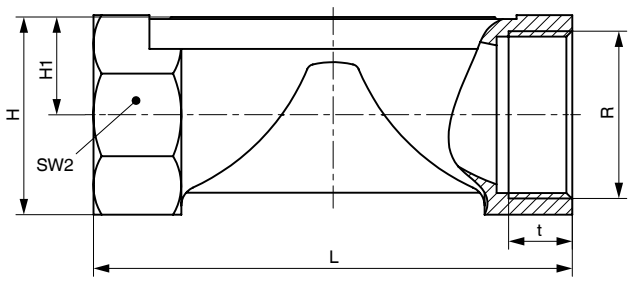
Type	MG	DN	R	Material code 37						Material code 90						Weight [lbs]
				H	H1	t	L	SW2	Number of flats	H	H1	t	L	SW2	Number of flats	
GEMÜ 671	25	15	G 1/2	1.11	0.58	0.59	3.35	27	6	1.29	0.66	0.59	3.35	32	6	0.7
		20	G 3/4	1.31	0.68	0.63	3.35	32	6	1.65	0.85	0.64	3.35	41	6	0.7
		25	G 1	1.67	0.86	0.51	4.33	41	6	1.84	0.93	0.75	4.33	46	6	0.9
	40	32	G 11/4	2.02	1.04	0.79	4.72	50	8	2.20	1.12	0.84	4.72	55	6	1.9
		40	G 11/2	2.22	1.13	0.71	5.51	55	8	2.60	1.32	0.84	5.51	65	6	2.1
	50	50	G 2	2.81	1.43	1.02	6.50	70	8	2.99	1.52	1.01	6.50	75	6	3.4

MG = diaphragm size For materials see overview on page 14

Threaded sockets, connection code 31
Valve body material: investment casting (code 37), GGG40.3 (code 90)

Type	MG	DN	R	Material code 37						Material code 90						Weight [kg]
				H	H1	t	L	SW2	Number of flats	H	H1	t	L	SW2	Number of flats	
GEMÜ 671	25	15	NPT 1/2	1.11	0.58	0.55	3.35	27	6	1.29	0.66	0.54	3.35	32	6	0.7
		20	NPT 3/4	1.31	0.68	0.55	3.35	32	6	1.65	0.85	0.56	3.35	41	6	0.7
		25	NPT 1	1.67	0.86	0.67	4.33	41	6	1.84	0.93	0.66	4.33	46	6	0.9
	40	32	NPT 11/4	2.02	1.04	0.67	4.72	50	8	2.2	1.12	0.68	4.72	55	6	1.9
		40	NPT 11/2	2.22	1.13	0.67	5.51	55	8	2.6	1.32	0.68	5.51	65	6	2.1
	50	50	NPT 2	2.81	1.43	0.71	6.50	70	8	2.99	1.52	0.7	6.50	75	6	3.4

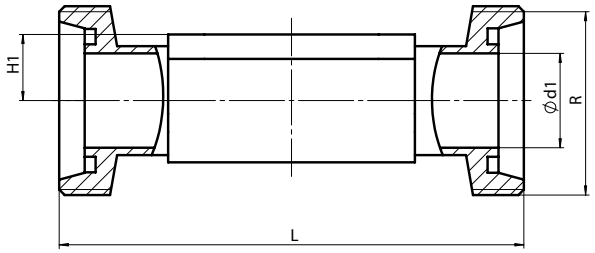
MG = diaphragm size For materials see overview on page 14



Body dimensions [inch]

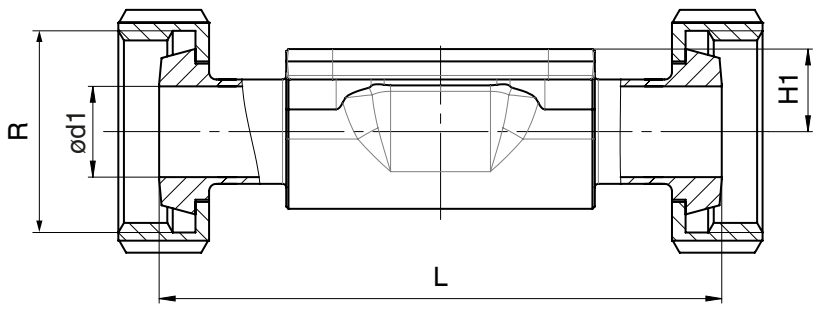
Threaded connections, connection code 6 Valve body material: Forged body (code 40)							
Type	**MG**	**DN**	**H1**	**ød1**	**Thread to DIN 405 R**	**L**	**Weight [lbs]**
GEMÜ 611	10	10	0.49	0.394	RD 28 x 1/8	4.65	0.7
		15	0.49	0.630	RD 34 x 1/8	4.65	0.8
GEMÜ 671	25	15	0.75	0.630	RD 34 x 1/8	4.65	1.6
		20	0.75	0.787	RD 44 x 1/6	4.65	1.7
		25	0.75	1.024	RD 52 x 1/6	5.04	1.7
	40	32	1.02	1.260	RD 58 x 1/6	5.79	3.7
		40	1.02	1.496	RD 65 x 1/6	6.30	3.6
	50	50	1.26	1.969	RD 78 x 1/6	7.52	5.9
	80	65	2.44	2.598	RD 95 x 1/6	9.69	20.3
		80	2.44	3.189	RD 110 x 1/4	10.08	20.3

MG = diaphragm size



Threaded connections, connection code 6K Valve body material: Forged body (code 40)							
Type	**MG**	**DN**	**H1**	**ød1**	**Thread to DIN 405 R**	**L**	**Weight [lbs]**
GEMÜ 611	10	10	0.49	0.394	RD 28 x 1/8	4.57	0.7
		15	0.49	0.630	RD 34 x 1/8	4.57	0.8
GEMÜ 671	25	15	0.75	0.630	RD 34 x 1/8	4.57	1.6
		20	0.75	0.787	RD 44 x 1/6	4.49	1.7
		25	0.75	1.024	RD 52 x 1/6	5.00	1.7
	40	32	1.02	1.260	RD 58 x 1/6	5.79	3.7
		40	1.02	1.496	RD 65 x 1/6	6.30	3.6
	50	50	1.26	1.969	RD 78 x 1/6	7.52	5.9
	80	65	2.44	2.598	RD 95 x 1/6	9.69	20.3
		80	2.44	3.189	RD 110 x 1/4	10.08	20.3

MG = diaphragm size



Body dimensions [inch]

Flanges - DIN EN 1092, connection code 8
Valve body material: GGG 40.3 (code 17, 18), investment casting (code C3), forged body (code 40), investment casting PFA lined (code 39)

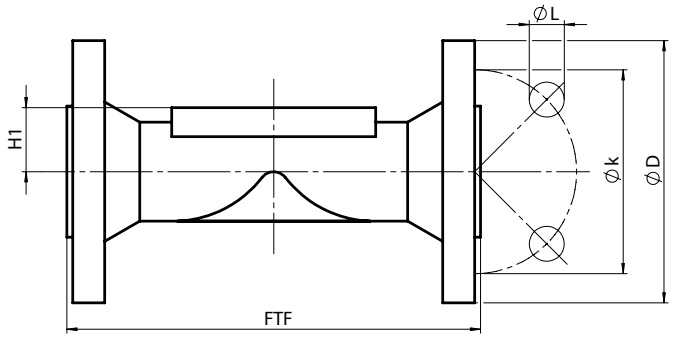
Type	MG	DN	øD	øk	øL	Number of bolts	H1			FTF	Weight [lbs]
							Material code 17, 18, 39	Material code C3	Material code 40		
GEMÜ 671	25	15	3.74	2.56	0.55	4	0.71	0.51	0.75	5.12*	4.1
		20	4.13	2.95	0.55	4	0.81	0.63	0.75	5.91	5.2
		25	4.53	3.35	0.55	4	0.91	0.75	0.75	6.30	6.3
	40	32	5.51	3.94	0.75	4	1.13	0.94	1.02	7.09	10.8
		40	5.91	4.33	0.75	4	1.30	1.02	1.02	7.87	12.5
	50	50	6.50	4.92	0.75	4	1.54	1.26	1.26	9.06	16.4
	80	65	7.28	5.71	0.75	4	2.01	-	2.44	11.42	22.5
		80	7.87	6.30	0.75	8	2.34	-	2.44	12.20	31.3
	100	100	8.66	7.09	0.75	8	2.87	-	2.99	13.78	46.3

*Material code C3, 40 FTF = 5.91 (no DIN length) MG = diaphragm size
For materials see overview on page 14

Flanges - ANSI Class 125/150 RF, connection code 38, 39
Valve body material: GGG 40.3 (code 17, 18), investment casting (code C3), forged body (code 40), investment casting PFA lined (code 39)

Type	MG	DN	øD	øk	øL	Number of bolts	H1			FTF		Weight [lbs]
							Material code 17, 18, 39	Material code C3	Material code 40	Connection code 38	Connection code 39	
GEMÜ 671	25	15	3.54	2.37	0.63	4	0.71	0.51	0.75	-	5.12	4.1
		20	3.94	2.75	0.63	4	0.81	0.63	0.75	5.75	5.91	5.2
		25	4.33	3.13	0.63	4	0.91	0.75	0.75	5.75	6.30	6.3
	40	32	4.53	3.50	0.63	4	1.13	0.94	1.02	-	7.09	10.8
		40	4.92	3.87	0.63	4	1.30	1.02	1.02	6.89	7.87	12.5
	50	50	5.91	4.75	0.75	4	1.54	1.26	1.26	7.87	9.06	16.4
	80	65	7.09	5.50	0.75	4	2.01	-	2.44	8.90	11.42	22.5
		80	7.48	6.00	0.75	4	2.34	-	2.44	10.24	12.20	31.3
	100	100	9.06	7.50	0.75	8	2.87	-	2.99	12.87	13.78	46.3

MG = diaphragm size For materials see overview on page 14

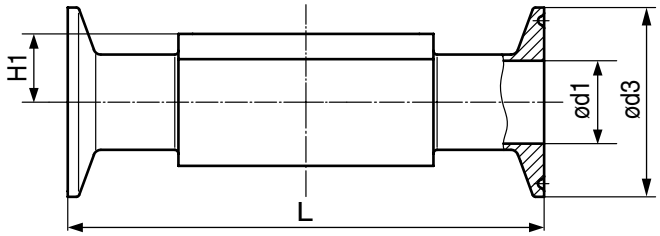


Body dimensions [inch]

Clamp connections, connection code 80, 82, 88, 8A, 8E, 8P, 8T
Valve body material: Forged body (code 40, F4)

Pipe connection for clamp					ASME BPE						ISO 1127 / EN 10357 series C / DIN 11866 series B			EN 10357 series A (formerly DIN 11850 series 2) / DIN 11866 series A			SMS 3008			Weight [lbs]
Clamp connection					Code 80, 88 - ASME BPE Code 8P, 8T - DIN 32676 series C						DIN 32676 series B			DIN 32676 series A			ISO 2852 / SMS 3017			
Connection code					80, 8P			88, 8T			82			8A			8E			
Type	MG	DN	NPS	H1	ød1	ød3	L	ød1	ød3	L	ød1	ød3	L	ød1	ød3	L	ød1	ød3	L	
GEMÜ 611	10	10	3/8”	0.49	-	-	-	-	-	-	0.551	0.984	4.25	0.394	1.339	4.25	-	-	-	0.7
		15	1/2”	0.49	0.370	0.984	3.5	0.370	0.984	4.25	0.713	1.988	4.25	0.630	1.339	4.25	-	-	-	0.9
		20	3/4”	0.49	0.620	0.984	4	0.620	0.984	4.61	-	-	-	-	-	-	-	-	-	0.9
GEMÜ 671	25	15	1/2”	0.75	-	-	-	-	-	-	0.713	1.988	4.25	0.630	1.339	4.25	-	-	-	1.6
		20	3/4”	0.75	0.620	0.984	4	0.620	0.984	4.61	0.933	1.988	4.61	0.787	1.339	4.61	-	-	-	1.6
		25	1”	0.75	0.870	1.988	4.5	0.870	1.988	5	1.169	1.988	5	1.024	1.988	5	0.89	0.890	1.988	1.4
	40	32	1 1/4”	1.02	-	-	-	-	-	-	1.512	2.52	5.75	1.260	1.988	5.75	1.23	1.232	1.988	3.6
		40	1 1/2”	1.02	1.370	1.988	5.5	1.370	1.988	6.26	1.744	2.52	6.26	1.496	1.988	6.26	1.4	1.402	1.988	3.3
	50	50	2”	1.26	1.870	2.520	6.25	1.870	2.520	7.48	2.217	3.051	7.48	1.969	2.520	7.48	1.91	1.913	2.520	5.5
		65	2 1/2”	1.34	2.370	3.051	7.63	2.370	3.051	8.5	-	-	-	-	-	-	2.37	2.374	3.051	5.1
	80	65	2 1/2”	2.44	2.370	3.051	7.63	2.370	3.051	8.5	2.839	3.583	8.5	2.598	3.583	8.5	2.37	2.374	3.051	19.6
		80	3”	2.44	2.870	3.583	8.75	2.870	3.583	10	3.319	4.173	10	3.189	4.173	10	2.87	2.870	3.583	18.7
	100	100	4”	2.99	3.834	4.685	11.5	3.834	4.685	12.01	4.319	5.118	12.01	3.937	4.685	12.01	3.84	3.843	4.685	54.7

MG = diaphragm size



Overview of valve bodies for GEMÜ 611, 671

Spigots

	Connection code		0	16	17		18	35	36	37		55	59		60		63	64	65
	Material code		40	40	C3	40	40	40	40	C3	40	40	C3	40	C3	40	40	40	40
Type	MG	DN																	
GEMÜ 611	10	10	-	X	X	X	X	-	X	-	-	X	-	X	X	X	X	-	X
		15	X	X	X	X	X	-	X	-	-	X	-	X	X	X	X	X	X
		20	-	-	-	-	-	-	-	-	-	X	X	X	-	-	-	-	-
GEMÜ 671	25	15	X	X	X	X	X	-	X	-	-	-	-	-	X	X	X	X	X
		20	X	X	X	X	X	-	X	-	-	X	X	X	X	X	X	X	X
		25	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X
	40	32	X	X	X	X	X	X	X	-	X	-	-	-	X	X	X	X	X
		40	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X
	50	50	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X
		65	-	-	-	-	-	X	-	-	X	-	-	X	-	-	-	-	-
	80	65	-	-	-	X	-	X	X	-	X	-	-	X	-	X	X	X	X
		80	-	-	-	X	-	X	X	-	X	-	-	X	-	X	X	X	X
	100	100	-	-	-	X	-	X	X	-	X	-	-	X	-	X	X	X	X

Availability of material code 42, F4: same as code 40
MG = diaphragm size

Overview of valve bodies for GEMÜ 611, 671

Type			Threaded connections						Clamps					Flanges														
	Connection code		1			31		6, 6K	80, 8P	82	88, 8T	8A	8E	8					38			39						
	Material code		12	37	90	37	90	40	40	40	40	40	40	17	18	C3	39	40	17	18	39	17	18	C3	39	40		
	MG	DN																										
GEMÜ 611	10	10	-	-	-	-	-	W	-	K	-	K	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		12	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		15	X	X	-	-	-	W	K	W	K	K	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		20	-	-	-	-	-	-	K	-	K	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
GEMÜ 671	25	15	-	X	X	X	X	W	-	W	-	K	-	X	X	W	X	W	-	-	-	X	X	W	X	W		
		20	-	X	X	X	X	W	K	K	K	K	-	X	X	W	X	W	X	X*	X	X	X	W	X	W		
		25	-	X	X	X	X	W	K	K	K	K	K	X	X	W	X	W	X	X*	X	X	X	W	X	W		
	40	32	-	X	X	X	X	W	-	W	-	K	K	X	X	W	X	W	-	-	-	X	X	W	X	W		
		40	-	X	X	X	X	W	K	W	K	K	K	X	X	W	X	W	X	X*	X	X	X	W	X	W		
	50	50	-	X	X	X	X	W	K	W	K	K	K	X	X	W	X	W	X	X*	X	X	X	W	X	W		
		65	-	-	-	-	-	-	W	-	W	-	W	-	-	-	-	-	-	-	-	-	-	-	-	-		
	80	65	-	-	-	-	-	W	K	K	K	K	K	-	-	-	-	W	-	-	-	-	-	-	-	W		
		80	-	-	-	-	-	W	K	W	K	W	K	X	X	-	X	W	X	X*	X	X	X	-	X	W		
	100	100	-	-	-	-	-	-	W	W	W	W	W	X	X	-	X	W	X	X*	X	X	X	-	X	W		

* Connection code 38 / material code 18 on request
X = Standard
K = Connections completely machined (not welded)
W = Welded construction
Availability of material code 42, F4: same as code 40
MG = diaphragm size

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