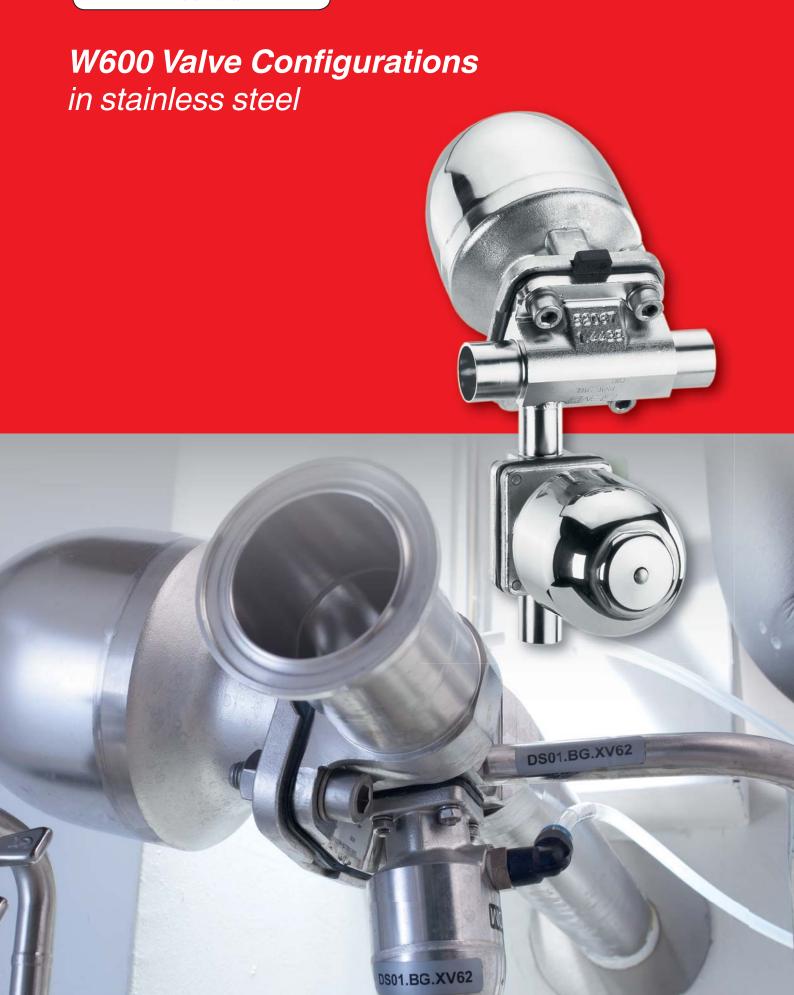
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Leading the world in pharmaceutical and biotechnology industry sterilisation processes

GEMÜ is one of the leading manufacturers of valves, measurement and control systems for sterile 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. The versatile product range is supplemented with a wide range of advisory services provided by industry specialists and application experts.

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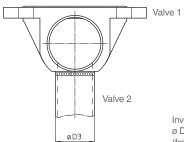
W600 welding configurations





Configuration 2

The arrangement of two valves welded together to suit the respective application provides maximum functionality in a restricted space. The assembly does without a T piece and thus the dead space between the valves is essentially reduced and two welds are no longer necessary. If more compact designs are required, we recommend using GEMÜ i-bodies and multi-port valve blocks from the GEMÜ M600 series which are machined from a single block. They also have a lower hold-up volume and only a minimum of welds.

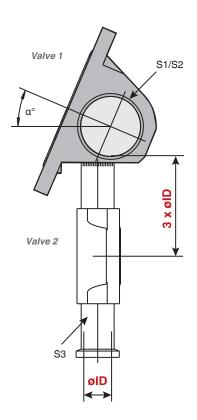


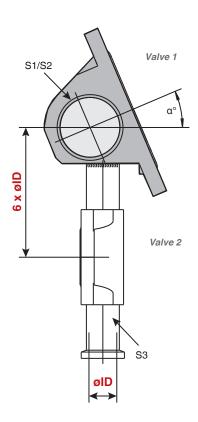
Investment cast body (code 34): ø D3 max. = 13.5 mm (from diaphragm size 10 to 50)

Features

- Standard valve body material 1.4435 in investment cast, forged or block material design
- · Various connections selectable
- · Various grades of surface finish available
- Operators from the GEMÜ modular system
- Cost effective
- No T piece required
- Valve 2 can be welded on with draining angle

3D and 6D rule





Various regulations form the basis for plant designs. Plant operators are normally concerned with the FDA/GMP directives and the ASME/BPE standard. Both regulatory codes define exact geometric reference points for valve configurations. This rule describes the maximum permissible pipe section with a non-turbulent flow in a valve configuration between valve 1 and valve 2. This is either designated as the 3D (3 x dia. ID) rule or the 6D (6 x dia. ID) rule.

3D rule

The longitudinal distance from the main valve inside diameter **lower edge** to the welded on sampling valve body sealing weir centre may not exceed 3-times the welded-on sampling valve body inside diameter.

6D rule

The longitudinal distance from the main valve inside diameter **centre axis** to the welded on sampling valve body sealing weir centre may not exceed 6-times the welded-on sampling valve body inside diameter.

Welding configurations

Selection table

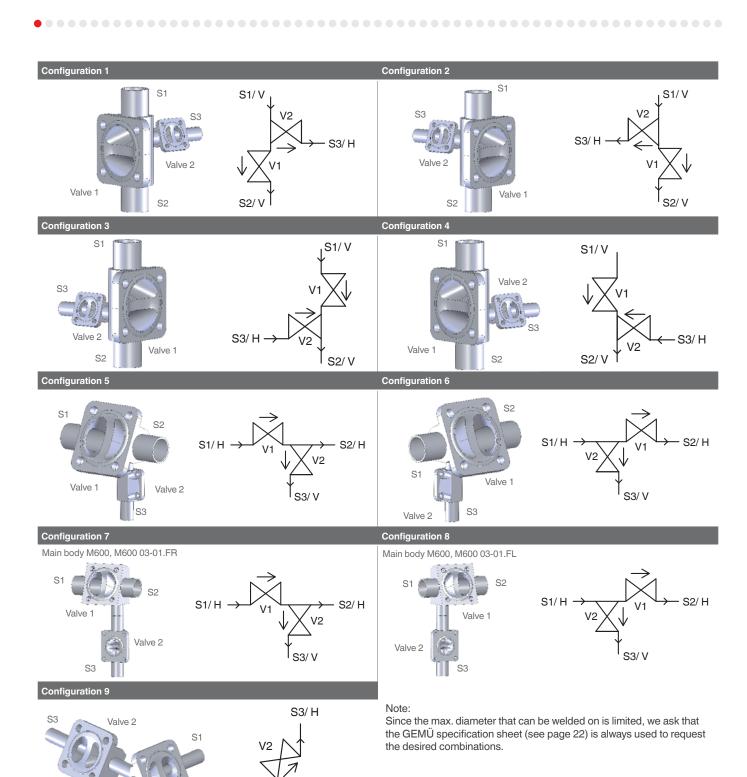


Figure similar

Continued on the next page

6

Valve 1

S2/ H

Configuration 10 Configuration 11 S3/H S3/ H S3 Valve 2 Valve 2 S2 S2/ H S2/ H Valve 1 Valve 1 Configuration 12 Configuration 13 Valve 1 S3/ H S3 Valve 2 S1 S2 S2/ H S2 S2/H S1/H Valve 2 Valve 1 Configuration 14 Configuration 15 Main body M600, M600 03-01.ER Valve 1 S2 Valve 2 S1 S2/ H Valve 1 Valve 2 S2/H S3/ V Configuration 16 Configuration 17 Main body M600, M600 03-01.EL Main body M600, M600 03-01.ER S3 S3/ V Valve 2 Valve 2 Valve 1 Valve 1 S2/H S2/H Configuration18 Main body M600, M600 03-01.EL Note: Since the max. diameter that can be welded on is limited, we ask that S3 S3/V the GEMÜ specification sheet (see page 22) is always used to request the desired combinations.

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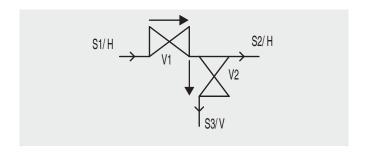
Figure similar

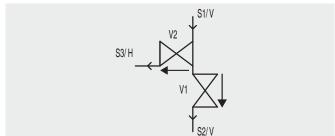
S2/ H

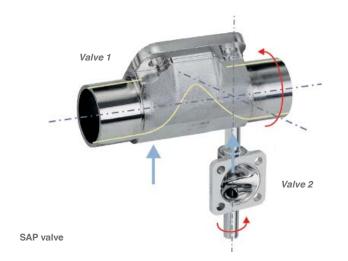
Valve 2

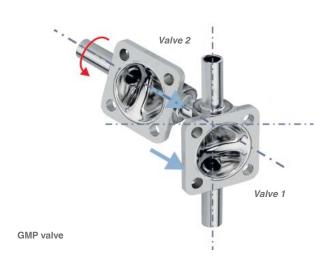
Valve 1

GMP / SAP configuration









As a rule, the nominal sizes of the two valves differ for GMP and SAP valve configurations. Combinations with the same nominal sizes can, however, also be produced. However, due to the valve geometries and the available space situation (e.g. relating to the actuator dimensions and body), there are also limitations. In these cases, GEMÜ is also able to offer multi-port valve blocks (series M600) manufactured from a single piece as a further customised solution.

•••••••••••••••••

SAP valve

The term SAP (Sterile Access Port) valve defines a configuration of two valves welded together, with the 2/2-way valve (1) being arranged horizontally. The valve (2) is welded on vertically in front of or behind the 2/2-way valve (1) sealing weir depending on the application.

GMP valve

The term GMP (Good Manufacturing Practice) valve defines a configuration of two valves welded together, with the 2/2-way valve (1) being arranged vertically The valve (2) is welded on horizontally in front of or behind the 2/2-way valve (1) sealing weir depending on the application. It is twisted axially to the extent that its sealing weir is turned away from the volumetric flow and that the working medium can flow out unhindered even under depressurised conditions..

i-bodies



The GEMÜ i-body (integrated valve seat) can be seen as an intermediate step to full GEMÜ M-block design machined from a piece of block material. i-bodies are a special construction type of the classical 2/2-way valve bodies. The integrated valve seat of i-bodies is used for example as sampling, steam and condensate valve. The valve bodies have two valve seats and 3 pipe connections. They are manufactured from a forging blank or a piece of block material. The i-body offers a low cost and good alternative for a number of combinations. It already exhibits two essential features of an M-block. It has a greatly reduced dead volume and no internal weld. The drain or supply spigot is only welded on behind the valve seat.



.........

i-bodies

Integrated sampling Integrated steam / condensate valve



Integrated valve (valve 2) either manually or pneumatically operated

Features

· Reduced weight

Possible operators for valve 2:

- · Minimal deadleg
- No weld in the product area
- Compact
- · Cost effective
- Available with spigots or elbows
- Draining in vertical installation position possible if adhering to the 3D-rule

•••••••••

Available seat sizes for material 1.4435:

••••••

• Diaphragm size 8/8 block material body • Diaphragm size 10/8 block material body • Diaphragm size 25/8 forged body • Diaphragm size 40/8 forged body • Diaphragm size 50/8 forged body • Diaphragm size 80/10 forged body

• Diaphragm size 100/10 forged body

*i-bodies*Selection table

	IOL	IOR	I1L	I1R	I2L	I2R		
Pictogram	S1/ H S3/ H V2	S1/H	S1/ H S3/ H V2	S1/H S2/H S3/H	S1/ H V2 S2/ H	S1/ H		
Forged bodies	S1 S2	S1 S2	S1 S2 S3	S1 S2 S3	S1 S2 S2 S3	S1 S2 S2 S3		
Forge	S1 S2 S3	S1 S2 S3	S1 S2 S3	S1 S2 S3	S1 S2 S2 S3	S1 S2 S3		
Block material bodies	S1 S2	S1	S1 S2 S3	S1 S2 S3	S1 S2 S3	\$1 \$2 \$3		
Block ma	S1 S2 S3	\$1 \$2 \$3	S1 S2 S3	\$1 \$2 \$3	S1 S2 S3	S1 S2 S3		
Weld-on parts	None	None	Pipe	Pipe	90° elbow	90° elbow		

Continued on the next page

i-bodies

Selection table

	I3L	I3R	I4L	I4R	I5L	I5R			
Pictogram	S3/V V1 S2/V	S2/V V1 S3/V	S3/ V V2 V1 S1/ H S2/ H	S3/V V1 V2 V2 V2 V3 V4 V2 V2 V3 V4 V4 V4 V4 V4 V4 V4 V4 V4 V4 V4 V4 V4	\$2/V V1 V2 \$1/V \$3/V	\$1/V V1 \$3/V			
Forged bodies	S1 S3 S2	S2 S3 S1	\$3 \$2 \$1	S1 S3 S3 S2 S2	S2 S3 S1	S1 S3 S2			
Forge	S1 S3 S2	\$2 \$3 \$1	S3 S2 S1	S1 S3 S3 S2	S2 S3 S1	S1 S3 S2			
Block material bodies	S1 S3 S2	S2 S3 S1	S3 S2 S2 S1	S1 S3 S2 S2	S2 S3 S1	S1 S3 S2			
Block mat	S1 S3 S2	S2 S1	S3 S2	S1 S3 S3 S2 S2	S2 S3 S1	S1 S3 S2			
Weld-on parts	90° elbow	90° elbow	90° elbow	90° elbow	90° elbow	90° elbow			

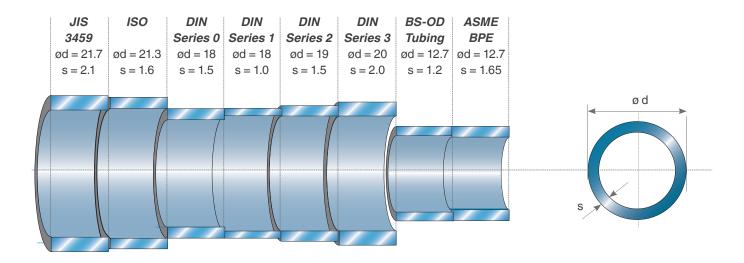
Butt weld connections / Surface finish

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.

In principle, special connections requested by customers can be provided on GEMÜ butt weld spigot bodies and it is also possible to have different connections on one body.

The difference between tube specifications (Example DN 15)

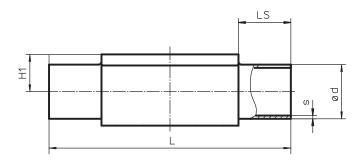


Valve body surface finish, internal contour			
	Forged body - Codes 40, 42, F4 Block material - Codes 41, 43	Investment casting Codes 32, 34	Code
Ra $\leq 0.8~\mu m,$ mechanically polished internal, blasted external	X	Χ	1502
Ra \leq 0.8 μ m, electropolished internal/external	Х	-	1503
Ra ≤ 0.6 µm, mechanically polished internal, blasted external	X	Х	1507
Ra \leq 0.6 μ m, electropolished internal/external	X	-	1508
Ra ≤ 0.4 µm, mechanically polished internal, blasted external	Х	-	1536
Ra \leq 0.4 μ m, electropolished internal/external	Х	-	1537
Ra \leq 0.25 μ m, mechanically polished internal, blasted external	X	-	1527
Ra \leq 0.25 μ m, electropolished internal/external	Х	-	1516

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

Butt weld connections





Optimum draining angle see brochures "2/2-way valve bodies and T valve bodies in stainless steel" $\,$

							DIN		DIN 11850							866	EN ISO 1127			
Dimer	ısions i	n mm					Series Code (Series 1 Code 16			Series 2 Code 17		3 18	Series Code		Series B Code 1B		Code 60	
MG	DN	NPS	L	LS	H1		ød		ød		ød		ød		ød		ød		ød	s
	4	-	72	20	8.5		6	1.0	-	-	-	-	-	-	-	-	-	-	-	-
	6	-	72	20	8.5		8	1.0	-	-	-	-	-	-	8	1.0	10.2	1.6	10.2	1.6
8	8	1/4"	72	20	8.5		10	1.0	-	-	-	-	-	-	10	1.0	13.5	1.6	13.5	1.6
	10	3/8"	72	20	8.5		-	-	12	1.0	13	1.5	14	2.0	13	1.5	-	-	-	-
	15	1/2"	72	20	8.5		-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10	3/8"	108	25	12.5		-	-	12	1.0	13	1.5	14	2.0	13	1.5	17.2	1.6	17.2	1.6
10	15	1/2"	108	25	12.5		18	1.5	18	1.0	19	1.5	20	2.0	19	1.5	21.3	1.6	21.3	1.6
	20	3/4"	108	25	12.5		-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15	1/2"	120	25	13.0	19.0	18	1.5	18	1.0	19	1.5	20	2.0	19	1.5	21.3	1.6	21.3	1.6
25	20	3/4"	120	25	16.0	19.0	22	1.5	22	1.0	23	1.5	24	2.0	23	1.5	26.9	1.6	26.9	1.6
	25	1"	120	25	19.0	19.0	28	1.5	28	1.0	29	1.5	30	2.0	29	1.5	33.7	2.0	33.7	2.0
40	32	1 1/4"	153	25	24.0	26.0	34	1.5	34	1.0	35	1.5	36	2.0	35	1.5	42.4	2.0	42.4	2.0
40	40	1 ½"	153	25	26.0	26.0	40	1.5	40	1.0	41	1.5	42	2.0	41	1.5	48.3	2.0	48.3	2.0
50	50	2"	173	30	32.0	32.0	52	1.5	52	1.0	53	1.5	54	2.0	53	1.5	60.3	2.0	60.3	2.0
00	65	2 1/2"	216	30	-	62.0	-	-	-	-	70	2.0	-	-	70	2.0	76.1	2.0	76.1	2.0
80	80	3"	254	30	-	62.0	-	-	-	-	85	2.0	-	-	85	2.0	88.9	2.3	88.9	2.3
100	100	4"	305	30	-	76.0	-	-	-	-	104	2.0	-	-	104	2.0	114.3	2.3	114.3	2.3

MG = diaphragm size

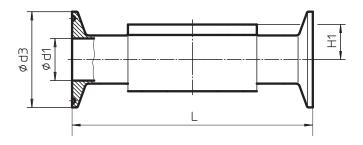
Dimer	Dimensions in mm						JIS-G 3447 Code 35		JIS-G 3459 Code 36		SMS 3008 Code 37		BS 4825 Code 55		ASME BPE Code 59		ANSI/ASME B36.19M 10s Code 63		ANSI/ASME B36.19M 40s Code 65	
MG	DN	NPS	L	LS	H1		ød		ød		ød		ød		ød		ød		ød	
	4	-	72	20	8.5		-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6	-	72	20	8.5		-	-	10.5	1.20	-	-	-	-	-	-	10.3	1.24	10.3	1.73
8	8	1/4"	72	20	8.5		-	-	13.8	1.65	-	-	6.35	1.2	6.35	0.89	13.7	1.65	13.7	2.24
	10	3/8"	72	20	8.5		-	-	-	-	-	-	9.53	1.2	9.53	0.89	-	-	-	-
	15	1/2"	72	20	8.5		-	-	-	-	-	-	12.70	1.2	12.70	1.65	-	-	-	-
	10	3/8"	108	25	12.5		-	-	17.3	1.65	-	-	9.53	1.2	9.53	0.89	17.1	1.65	17.1	2.31
10	15	1/2"	108	25	12.5		-	-	21.7	2.10	-	-	12.70	1.2	12.70	1.65	21.3	2.11	21.3	2.77
	20	3/4"	108	25	12.5		-	-	-	-	-	-	19.05	1.2	19.05	1.65	-	-	-	-
	15	1/2"	120	25	13.0	19.0	-	-	21.7	2.10	-	-	-	-	-	-	21.3	2.11	21.3	2.77
25	20	3/4"	120	25	16.0	19.0	-	-	27.2	2.10	-	-	19.05	1.2	19.05	1.65	26.7	2.11	26.7	2.87
	25	1"	120	25	19.0	19.0	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 1/4"	153	25	24.0	26.0	31.8	1.2	42.7	2.80	33.7	1.2	-	-	-	-	42.2	2.77	42.2	3.56
40	40	1 ½"	153	25	26.0	26.0	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"	173	30	32.0	32.0	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"	216	30	-	62.0	63.5	2.0	76.3	3.00	63.5	1.6	-	-	63.50	1.65	73.0	3.05	73.0	5.16
80	80	3"	254	30	-	62.0	76.3	2.0	89.1	3.00	76.1	1.6	-	-	76.20	1.65	88.9	3.05	88.9	5.49
100	100	4"	305	30	-	76.0	101.6	2.0	114.3	3.00	101.6	2.0	-	-	101.60	2.11	114.3	3.05	114.3	6.02

MG = diaphragm size



Clamp bodies

All clamp connections are machined according to the spigot dimensions e.g. to DIN 11850, EN ISO 1127, SMS 3008 or ASME BPE. We ask our customers to state which version or standard the connections shall comply with.



Pipe			Code 59 ASME-BPE							Code DIN 1	16,17 1850	,18	Code SMS3			Code 35 JIS-G3447			Code 36 JIS-G3459					
Clam	ıp conı	nectio	า	Code	80		Code	82		Code	88		Code	8A		Code	8E		Code	8F		Code	8H	
MG	DN	NPS	H1	ød1	ød3	L	ød1	ød3	L	ød1	ød3	L	ød1	ød3	L	ød1	ød3	L	ød1	ød3	L	ød1	ød3	L
	8	1/4"	8	4.57	25	63.5	10.30	25.0	63.5	-	-	-	-	-	-	-	-	-	-	-	-	10.5	34	88.9
8	10	3/8"	8	7.75	25	63.5	-	-	-	-	-	-	10.00	34	88.9	-	-	-	-	-	-	-	-	-
	15	1/2"	8	9.40	25	63.5	-	-	-	9.40	25	108	-	-	-	-	-	-	-	-	-	-	-	-
	10	3/8"	12.5	-	-	-	14.00	25.0	108	-	-	-	10.00	34	108	-	-	-	-	-	-	14.00	34	108
10	15	1/2"	12.5	9.40	25	88.9	18.10	50.5	108	9.40	25	108	16.00	34	108	-	-	-	-	-	-	17.50	34	108
	20	3/4"	12.5	15.75	25	101.6	-	-	-	15.75	25	117	-	-	-	-	-	-	-	-	-	-	-	-
	15	1/2"	19	9.40	25	101.6	18.10	50.5	108	9.40	25	108	16.00	34	108	-	-	-	-	-	-	17.50	34	108
25	20	3/4"	19	15.75	25	101.6	23.70	50.5	117	15.75	25	117	20.00	34	117	-	-	-	-	-	-	-	-	-
	25	1"	19	22.10	50.5	114.3	29.70	50.5	127	22.10	50.5	127	26.00	50.5	127	22.60	50.5	127	23.00	50.5	127	-	-	-
40	32	1 1/4"	26	-	-	-	38.40	64.0	146	-	-	-	32.00	50.5	146	31.30	50.5	146	29.40	50.5	146	-	-	-
40	40	1 ½"	26	34.80	50.5	139.7	44.30	64.0	159	34.80	50.5	159	38.00	50.5	159	35.60	50.5	159	35.70	50.5	159	-	-	-
50	50	2"	32	47.50	64	158.75	56.30	77.5	190	47.50	64	190	50.00	64	190	48.60	64	190	47.80	64	190	-	-	-
00	65	2 ½"	62	60.20	77.5	193.68	72.10	91.0	216	60.20	77.5	216	66.00	91	216	60.30	77.5	216	59.50	77.5	216	-	-	-
80	80	3"	62	72.90	91	222.25	84.30	106.0	254	72.90	91	254	81.00	106	254	72.90	91	254	72.30	91	254	-	-	-
100	100	4"	76	97.38	119	292.1	109.70	144.5	305	97.38	119	305	100.00	119	305	97.60	119	305	97.60	119	305	-	-	-

Dimensions in mm MG = diaphragm size

Selection of operators

W600 valve configurations

Manually operated













					14000	4 Million
Туре	9601	9602	9612	9673	9653	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/seal adjuster, lockable, optional: electrical position indicator	Stainless steel, with optical position indicator, stroke limiter/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 - 15	4 - 15	10 - 20	15 - 50	10 - 100	4 - 100
Diaphragm size 8	•	•	-	-	-	•
Diaphragm size 10	-	-	•	-	•	•
Diaphragm size 25	-	-	-	•	•	•
Diaphragm size 40	-	-	-	•	•	•
Diaphragm size 50	-	-	-	•	•	•
Diaphragm size 80	-	-	-	-	•	•
Diaphragm size 100	-	-	-	-	•	•

 $^{^{\}star}$ dependent on diaphragm material, see technical datasheet







Selection of operators

W600 valve configurations

Pneumatically operated













					4	
Туре	9605	9625	9687	9650	9650TL	9651
Material	Plastic, with stainless steel distance piece, optical position indicator	Plastic, with stainless steel distance piece, optical position indicator	Plastic, with stainless steel distance piece	Stainless steel, with optical position indicator, optionally autoclavable	Safety valve, stainless steel, mounting facility for proximity switches	Stainless steel, with integrated automation module
Autoclavable	-	-	-	ON 4-25)	-	-
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 8 bar	0 to 6 bar	0 to 10 bar	0 to 10 bar	0 to 8 bar	0 to 10 bar
DN	4 to 15	10 to 20	10 to 100	4 to 100	4 to 25	4 to 25
Supply voltage	-	-	-	-	-	-
Diaphragm size 8	•	-	-	•	•	•
Diaphragm size 10	-	•	•	•	•	•
Diaphragm size 25	-	-	•	•	•	•
Diaphragm size 40	-	-	•	•	-	-
Diaphragm size 50	-	-	•	•	-	-
Diaphragm size 80	-	-	•	•	-	-
Diaphragm size 100	-	-	•	•	-	-

 $^{^{\}star}$ dependent on diaphragm material, see technical datasheet



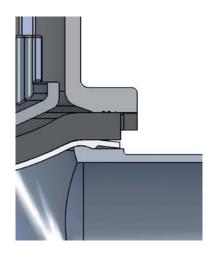




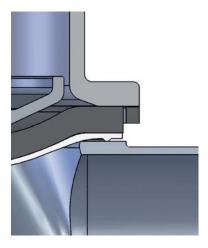
Pneumatically operated 9658/9688 9660 9618 Filling valve, stainless Plastic, with or without stainless | Plastic, with or without stainless Two stage actuator, stainless steel steel with optical steel distance piece, optical steel distance piece, optical position indicator position indicator position indicator and manual override 0 to 130 °C 0 to 150 °C -10 to 150 °C -10 to 150 °C (without distance piece 15 to 50 °C) 0 to 10 bar 0 to 5 bar 0 to 6 bar 0 to 6 bar 4 to 15 10 to 50 4 to 25 15 to 50 24 VDC, 120 VAC, 24 VDC, 120 VAC, 230 VAC, 50/60Hz 230 VAC, 50/60Hz • •



EHEDG certified seal system









As a leading manufacturer world-wide we had the GEMÜ diaphragm seal system certified in 2002 and were granted the EHEDG certificate.



GEMÜ seal system



Conventional seal systems

GEMÜ flexible diaphragm fixing

The diaphragm is uniformly fixed in the compressor by means of a threaded pin. The only exception is the smallest diaphragm size (diaphragm size 8), which is pushed in with a rubber pin. The uniform fixing method applies both to soft elastomer and PTFE diaphragms. The largest advantage of fixing by means of a threaded pin, e.g. in comparison to a bayonet fitting, is the even transfer of forces onto the large area of the flanks of the screw thread. This prevents damage to the mechanical connection between compressor and diaphragm especially under vacuum operating conditions. The uniform fixing of elastomer and PTFE diaphragms enables subsequent replacement of the diaphragm while using the same actuator.



Diaphragm size 8



Materials and certificates

Туре	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

The table above 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.



Valve configurations specification

Please complete this form and return it to your nearest GEMÜ office or to the address listed below!

Configu Quantity		:						ng pressu medium	re temperatu				bar °C
	'		Valve	1			VVOIRIII	mediam	temperate	Valve			0
			DN	s [mm]	D _a [mm]	Code				DN		D _a [mm]	Code
Spigot	S1				a		Spigot	S3				a	
Spigot	S2							deadleg uirement	C	Э 3хD -	rule*	O 6xD -	rule*
Operato	or type __						Operato Control						
Accesso	=						Accesso						
	Comment						Comme	-					
Body material Main 2/2 way body	1.4435	BN 2 (Δ F	=e < 0,5%	6)	Block ma Forged	I	Body material Second 2/2 way body	1.4435 1.4435 I 1.4539 Other	BN 2 (Δ Fe	e < 0,5%	6)	Block ma Forged	
Diaphragm material	EPDM PTFE Other	000	Code Code				Diaphragm material	EPDM PTFE Other	000	Code			
Surface finish internal finish	1502 1503 1507 1508 1536 1537 1527 1516	$(Ra) \le$	0,8 μm 0,8 μm 0,6 μm 0,6 μm 0,4 μm 0,4 μm 0,25 μm	e-pol. e-pol.		00000000	Surface finish internal finish	1502 1503 1507 1508 1536 1537 1527 1516	$(Ra) \le 0$ $(Ra) \le 0$,8 μm ,6 μm ,6 μm ,4 μm ,4 μm	e-pol. e-pol.		00000000
Type ke	_			-			Type ke	-	For G ——on a *:	iEMÜ us			
	ed at works						_	d at works					
* Please	contact us	s for an ov	erview of a	angles of ro	tation, if req	uired.	* Please	contact us	s for an ove	rview of a	angles of ro	tation, if req	uired.
Conta Custo Dept.: Addres		ύ): 			hnical detail		nquiry will be	e checked l	by GEMÜ.				α
Phone	:				e-	mail:					Z }	<i>3</i> //	







