

## GEMÜ P600M

### M-block stainless steel diaphragm valve



#### Features

- Space savings thanks to compact design
- Individual, customized and flexible design
- Reduced deadleg
- Fewer connection points and weld seams
- Huge variety of functions combined in the smallest of spaces
- Wide range of adaptation options from measurement and control systems, in addition to accessories
- Optimized draining design

#### Description

The GEMÜ P600M stainless steel M-block diaphragm valve comprises one or more diaphragm valve seats. It is possible to choose between manual, pneumatic and motorized actuator versions. The downstream media is isolated using a diaphragm.

#### Technical specifications

- **Media temperature :** -10 to 100 °C
- **Sterilization temperature:** 150 °C
- **Ambient temperature:** 0 to 60 °C
- **Operating pressure :** 0 to 10 bar
- **Nominal sizes:** DN 4 to 150
- **Body configurations:** Multi-port body
- **Connection types:** Clamp | Flange | Spigot | Threaded connection
- **Connection standards:** ANSI | ASME | BS | DIN | EN | ISO | JIS | SMS
- **Body materials:** 1.4435 (316L), block material | 1.4435 (BN2), block material | 1.4539 (904L), block material
- **Diaphragm materials:** EPDM | PTFE/EPDM
- **Conformities:** 3A | BSE/TSE | CRN | EAC | FDA | Regulation (EC) No. 1935/2004 | USP



Technical data depends on the respective configuration



further information  
webcode: GW-P600M




### Manual product line

					
	<b>GEMÜ 9601</b>	<b>GEMÜ 9602</b>	<b>GEMÜ 9612</b>	<b>GEMÜ 9650...TL</b>	<b>GEMÜ 9653...</b>
<b>Media temperature</b>	-10 to 100 °C	-10 to 100 °C	-10 to 100 °C	-10 to 100 °C	-10 to 100 °C
<b>Operating pressure</b>	0 to 10 bar	0 to 10 bar	0 to 10 bar	0 to 8 bar	0 to 10 bar
<b>Nominal sizes</b>	DN 4 to 15	DN 4 to 15	DN 10 to 20	DN 4 to 25	DN 10 to 100



**Note:** The detailed technical data can be found in the product types' datasheets in conjunction with the technical drawing of the valve block.

### Manual product line

			
	<b>GEMÜ 9654...</b>	<b>GEMÜ 9673</b>	<b>GEMÜ 9675-7H</b>
<b>Media temperature</b>	-10 to 100 °C	-10 to 100 °C	0 to 100 °C
<b>Operating pressure</b>	0 to 10 bar	0 to 10 bar	0 to 7 bar
<b>Nominal sizes</b>	DN 4 to 100	DN 15 to 65	DN 150



**Note:** The detailed technical data can be found in the product types' datasheets in conjunction with the technical drawing of the valve block.

### Pneumatic product line

					
	<b>GEMÜ 9605</b>	<b>GEMÜ 9625</b>	<b>GEMÜ 9650</b>	<b>GEMÜ 9651</b>	<b>GEMÜ 9658</b>
<b>Media temperature</b>	-10 to 100 °C	-10 to 100 °C	-10 to 100 °C	-10 to 100 °C	-10 to 100 °C
<b>Operating pressure</b>	0 to 8 bar	0 to 6 bar	0 to 10 bar	0 to 10 bar	0 to 10 bar
<b>Nominal sizes</b>	DN 4 to 15	DN 10 to 20	DN 4 to 150	DN 4 to 25	DN 10 to 65

**Note:** The detailed technical data can be found in the product types' datasheets in conjunction with the technical drawing of the valve block.

## Pneumatic product line

		
	<b>GEMÜ 9660</b>	<b>GEMÜ 9687</b>
	<b>Media temperature</b>	-10 to 100 °C
	<b>Operating pressure</b>	0 to 5 bar
<b>Nominal sizes</b>	DN 4 to 25	DN 10 to 100

**Note:** The detailed technical data can be found in the product types' datasheets in conjunction with the technical drawing of the valve block.

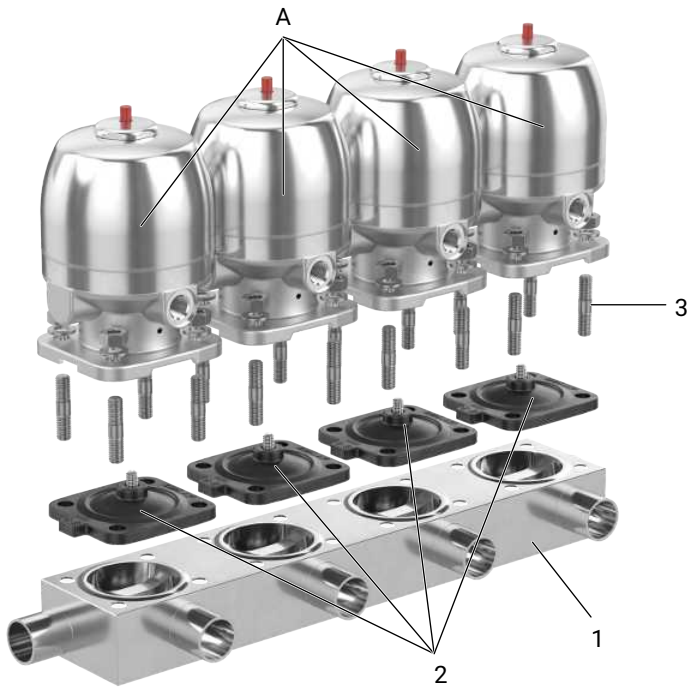
## Motorized product line

			
	<b>GEMÜ 9629</b>	<b>GEMÜ 9639</b>	<b>GEMÜ 9649</b>
	<b>Media temperature</b>	-10 to 80 °C	-10 to 100 °C
	<b>Operating pressure</b>	0 to 6 bar	0 to 10 bar
<b>Nominal sizes</b>	DN 4 to 40	DN 4 to 40	DN 10 to 65

**Note:** The detailed technical data can be found in the product types' datasheets in conjunction with the technical drawing of the valve block.

## Product description

### Design



Item	Name
A	Actuators
1	Body
2	Diaphragms
3	Stud bolt

## Range overview

### Range overview of surface finishes

#### Internal surface finishes for block material body <sup>1)</sup>

Media wetted internal surface finishes	Mechanically polished <sup>2)</sup>		Electropolished	
	Hygiene class DIN 11866	Code	Hygiene 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	H5	1527	HE5	1516

Media wetted internal surface finishes in accordance with ASME BPE 2019 <sup>3)</sup>	Mechanically polished <sup>2)</sup>		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

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

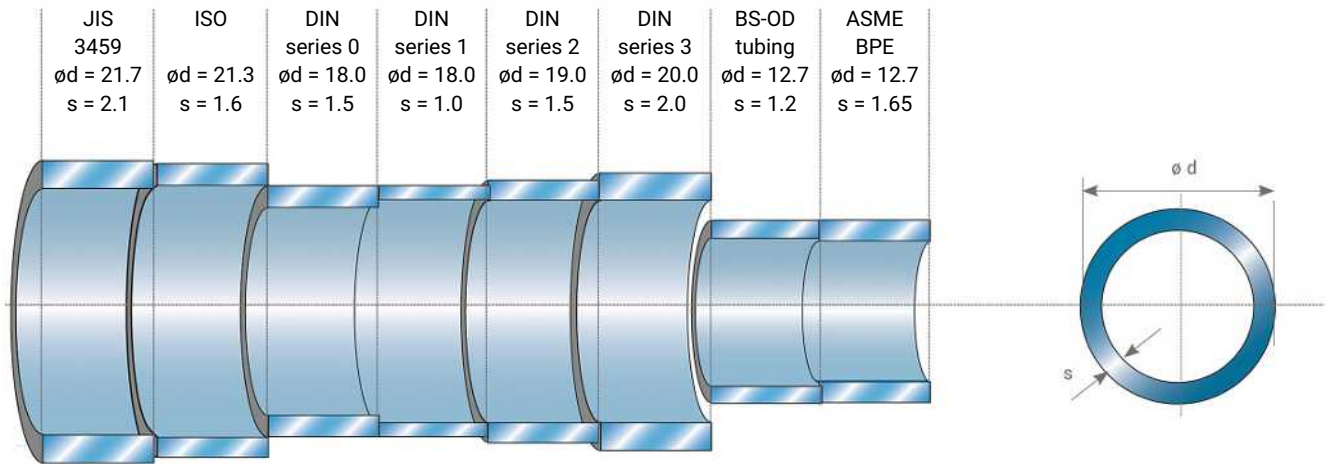
- 1) Surface finishes of customized valve bodies may be limited in special cases.
- 2) Or any other finishing method that meets the Ra value (acc. to ASME BPE).
- 3) When using these surfaces, the bodies are marked according to the specifications of ASME BPE.  
The surfaces are only available for valve bodies which are made of materials (e.g. GEMÜ material codes 41, 44) and use connections (e.g. GEMÜ connection codes 59, 80, 88) according to ASME BPE.

**Range overview of add-on components for diaphragm valves**

GEMÜ type	605	625	650	651	653	654	658	687
<b>Measurement and control technology</b>								
<b>Electrical position indicator</b>								
GEMÜ 1205 (see "Description", page 44)			X				X	X
GEMÜ 1201/1211/1214 (see "Description", page 44)			X				X	X
GEMÜ 1215 (see "Description", page 44)	X	X	X					X
GEMÜ 1230/1231/1232 (see "Description", page 44)	X	X	X				X	X
GEMÜ 1234 (see "Description", page 44)	X	X	X					X
GEMÜ 1235/1236 (see "Description", page 44)	X	X	X				X	X
GEMÜ 1242 (see "Description", page 45)	X	X	X				X	X
<b>Combi switchbox</b>								
GEMÜ 4241		X	X					X
GEMÜ 4242	X	X	X					X
<b>Pilot valve</b>								
GEMÜ 0324	X	X	X	X			X	X
<b>Control systems</b>								
<b>Positioner</b>								
GEMÜ 1434 µPos	X	X	X					X
GEMÜ 1435 ePos	X	X	X				X	X
<b>Positioner and process controller</b>								
GEMÜ 1436 cPos	X	X	X				X	X
GEMÜ 1441 cPos-X (see "Description", page 45)	X	X	X				X	X
<b>Accessories</b>								
Connection accessories	X	X	X	X			X	X
Clamping devices (see "Description", page 46)			X					
Manual override (see "Description", page 46)			X					X
Stroke limiters (see "Description", page 46)	X	X	X				X	X
Sensor accessories (see "Description", page 47)	X	X	X		X	X	X	X
Position indicators (see "Description", page 48)	X	X	X				X	X

## The difference between pipe specifications (example of DN 15)

Connection type<sup>1)</sup>



### 1) Connection type, spigot 1

Code 0: Spigot DIN

Code 16: Spigot DIN EN 10357 series B (2014 edition; formerly DIN 11850 series 1)

Code 17: Spigot EN 10357 series A/DIN 11866 series A formerly DIN 11850 series 2

Code 18: Spigot DIN 11850 series 3

Code 36: Spigot JIS-G 3459 schedule 10s

Code 55: Spigot BS 4825, Part 1

Code 59: Spigot ASME BPE/DIN EN 10357 series C (from 2022 edition)/DIN 11866 series C

Code 60: Spigot ISO 1127/DIN EN 10357 series C (2014 edition)/DIN 11866 series B

## Order data

The order data provides an overview of standard configurations.

Please check the availability before ordering. Other configurations available on request.

The specification sheet (see page 49) must be used to order a multi-port valve block.

Reference no. **GEMÜ**

**Specification | GEMÜ P600M**  
**M-block stainless steel diaphragm valve**

Operating pressure: \_\_\_\_\_ bar  
 Medium temperature: \_\_\_\_\_ °C

Valve block material:  
 1.4435  
 1.4435 BN 2 ( $\Delta Fe < 0.5\%$ )  
 1.4539  
 Other \_\_\_\_\_

Shut-off diaphragm material:  
 EPDM Code \_\_\_\_\_  
 PTFE Code \_\_\_\_\_  
 Other \_\_\_\_\_

Surface finish of valve block:  
 1502 (Ra)  $\leq 0.8 \mu m$   
 1503 (Ra)  $\leq 0.8 \mu m$  electropolished  
 1507 (Ra)  $\leq 0.6 \mu m$   
 1508 (Ra)  $\leq 0.6 \mu m$  electropolished  
 1536 (Ra)  $\leq 0.4 \mu m$   
 1537 (Ra)  $\leq 0.4 \mu m$  electropolished  
 1527 (Ra)  $\leq 0.25 \mu m$   
 1516 (Ra)  $\leq 0.25 \mu m$  electropolished  
 Other \_\_\_\_\_

Quantity: \_\_\_\_\_

Is it repeat business for a certain item? no yes **If "yes", please click here**

Spigot no.	Pipe connection		Actuator			Other
	DN	Code	ød(a)[mm]	s [mm]	Actuator type	
S1					V1	
S2					V2	
S3					V3	
S4					V4	
S5					V5	
S6					V6	
S7					V7	
S8					V8	
S9					V9	
S10					V10	
S11					V11	
S12					V12	

The technical details of each enquiry must be checked by GEMÜ.

Contact (GEMÜ): \_\_\_\_\_  
 Customer: \_\_\_\_\_  
 Department: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_ E-mail: \_\_\_\_\_

Please do not write here!  
 K-No.: \_\_\_\_\_  
 P600: \_\_\_\_\_  
 M600: \_\_\_\_\_  
 X: \_\_\_\_\_

GEMÜ Gebr. Müller Apparatebau GmbH & Co. KG, Fritz-Müller-Str. 6-8 71653 Ingeflingen Germany Phone +49(0)7940/123-0 info@gemu.de www.gemu-group.com

## Order codes

1 Type	Code
Valve assembly	P600
Diaphragm valve body	K600

2 Body configuration	Code
M-block	M

3 Number of spigots	Code
2 spigots	02
3 spigots	03
4 spigots	04
5 spigots	05
6 spigots	06
7 spigots	07
8 spigots	08
Other connections on request	

4 Number of valve seats	Code
1 valve seat	01
2 valve seats	02

4 Number of valve seats	Code
3 valve seats	03
4 valve seats	04
5 valve seats	05
6 valve seats	06
Other valve seats on request	

5 Valve body material	Code
1.4435 (316L), block material	41
1.4435 (BN2), block material, $\Delta Fe < 0.5\%$	43
1.4539, block material	44
Other materials on request	

6 Diaphragm size	Code
Diaphragm size 8	8
Diaphragm size 10	10
Diaphragm size 25	25
Diaphragm size 40	40
Diaphragm size 50	50
Diaphragm size 80	80



6 Diaphragm size	Code
Diaphragm size 100	100
Diaphragm size 150	150

7 Valve seat type	Code
Diaphragm valve, manually operated, plastic handwheel, stainless steel distance piece, seal adjuster, optical position indicator	601
Diaphragm valve, manually operated, stainless steel handwheel, optical position indicator	602
Diaphragm valve, pneumatically operated, plastic piston actuator, stainless steel distance piece, optical position indicator	605
Diaphragm valve, manually operated, plastic handwheel, stainless steel distance piece, seal adjuster, optical position indicator	612
Diaphragm valve, pneumatically operated, plastic piston actuator, stainless steel distance piece, optical position indicator	625
Plastic diaphragm valve, electrically operated	629
Diaphragm valve, electrically operated, eSyStep	639
Diaphragm valve, electrically operated, electro-mechanical hollow shaft actuator, eSyDrive	649
Diaphragm valve, pneumatically operated, stainless steel piston actuator electropolished, optical position indicator	650
Diaphragm valve, manually operated, stainless steel piston actuator, electropolished, optical position indicator	650TL
Diaphragm valve with integrated automation module	651
Diaphragm valve, manually operated, plastic handwheel, stainless steel distance piece, electropolished, optical position indicator	653
Diaphragm valve, manually operated, stainless steel handwheel electropolished, optical position indicator	654
Diaphragm valve, pneumatically operated, stainless steel two-stage actuator	658
Diaphragm valve, pneumatically operated, stainless steel piston actuator, stroke limiter and seal adjuster	660
Diaphragm valve, manually operated, plastic handwheel, metal distance piece, seal adjuster, optical position indicator	673
Diaphragm valve, manually operated, metal handwheel, metal distance piece, optical position indicator	675-7H
Diaphragm valve, pneumatically operated, plastic actuator, stainless steel distance piece	687

8 Actuator control function	Code
Manually operated	0
Normally closed (NC)	1
Normally open (NO)	2
Double acting (DA)	3

9 Design	Code
For GEMÜ 601	
With seal adjuster, black handwheel	0TS
For GEMÜ 602	
With seal adjuster, metal handwheel	0TM
For GEMÜ 605	
Actuator size 0/N	0/N
For GEMÜ 612	
With seal adjuster, black handwheel	1TS
For GEMÜ 625	
Actuator size 1/N	1/N
For GEMÜ 629	
Actuator size 1 diaphragm size 8 with distance piece	B1
Actuator size 1 diaphragm size 10	1C
Actuator size 1 diaphragm size 25	1F
Actuator size 3 diaphragm size 40	3H
For GEMÜ 639	
Actuator size 0	0A
Actuator size 0 diaphragm size 8	0B
Actuator size 1	1A
For GEMÜ 649	
Actuator size 0	0A
Actuator size 1	1A
Actuator size 2	2A
For GEMÜ 650	
Control air connector 90° offset to flow direction, piston diameter 32 mm (standard)	0R1
Control air connector 90° offset to flow direction, piston diameter 40 mm	0RA
Control air connector in flow direction (standard), piston diameter 32 mm (standard)	0T1
Control air connector in flow direction (standard), piston diameter 40mm	0TA
Actuator version 1R1	1R1
Actuator size 1T1	1T1
Actuator size 2R1	2R1
Actuator size 2T1	2T1
Actuator size 3R1	3R1
Actuator size 3 control air connector 90° offset to flow direction	3RA
Actuator size 3T1	3T1
Actuator size 3TA	3TA
Actuator size 4R1	4R1

Order data

9 Design	Code
Actuator size 4T1	4T1
Actuator size 5R1	5R1
Actuator size 5RA	5RA
Actuator size 5T1	5T1
Actuator size 5TA	5TA
Actuator size 6R1	6R1
Actuator size 6RA	6RA
Actuator size 6T1	6T1
Actuator size 6TA	6TA
Actuator size 8TA	8TA
<b>For GEMÜ 650TL</b>	
Actuator size 0	0
Actuator size 1	1
Actuator size 2	2
<b>For GEMÜ 653 and 654</b>	
With seal adjuster and stroke limiter	0TH
Without seal adjuster and stroke limiter	0TN
With seal adjuster, black handwheel	0TS
Control air connector in flow direction (standard), piston diameter 40mm	0TA
Actuator size 0TB	0TB
With seal adjuster and stroke limiter, mounting for proximity switches M8 x 1	0XA
With seal adjuster and stroke limiter, locking device (both directions), mounting for proximity switches M8 x 1, correct setting of the seal adjuster is absolutely essential	0XB
With seal adjuster and stroke limiter, locking device to prevent closing, mounting for proximity switches M8 x 1	0XF
With seal adjuster and stroke limiter, locking device to prevent opening, mounting for proximity switches M8 x 1	0XK
Actuator size 1DH, for 2/2-way body, with seal adjuster and stroke limiter	1DH
Actuator size 1DN, for 2/2-way body	1DN
With seal adjuster and stroke limiter, mounting for proximity switches M8 x 1	1XA
With seal adjuster and stroke limiter, locking device (both directions), mounting for proximity switches M8 x 1	1XB
With seal adjuster and stroke limiter, locking device to prevent closing, mounting for proximity switches M8 x 1	1XF
With seal adjuster and stroke limiter, locking device to prevent opening, mounting for proximity switches M8 x 1	1XK
Actuator size 2DH, for 2/2-way body, with seal adjuster and stroke limiter	2DH
Actuator size 2DN, for 2/2-way body	2DN
With seal adjuster and stroke limiter	2TH

9 Design	Code
Without seal adjuster and stroke limiter	2TN
With seal adjuster, black handwheel	2TS
With seal adjuster and stroke limiter, mounting for proximity switches M8 x 1	2XA
With seal adjuster and stroke limiter, locking device (both directions), mounting for proximity switches M8 x 1	2XB
With seal adjuster and stroke limiter, locking device to prevent closing, mounting for proximity switches M8 x 1	2XF
With seal adjuster and stroke limiter, locking device to prevent opening, mounting for proximity switches M8 x 1	2XK
Actuator size 3DH, for 2/2-way body, with seal adjuster and stroke limiter	3DH
Actuator size 3DN, for 2/2-way body	3DN
With seal adjuster and stroke limiter	3TH
Without seal adjuster and stroke limiter	3TN
With seal adjuster, black handwheel	3TS
With seal adjuster and stroke limiter, mounting for proximity switches M8 x 1	3XA
With seal adjuster and stroke limiter, locking device (both directions), mounting for proximity switches M8 x 1	3XB
With seal adjuster and stroke limiter, locking device to prevent closing, mounting for proximity switches M8 x 1	3XF
With seal adjuster and stroke limiter, locking device to prevent opening, mounting for proximity switches M8 x 1	3XK
Actuator size 4DH, for 2/2-way body, with seal adjuster and stroke limiter	4DH
Actuator size 4DN, for 2/2-way body	4DN
With seal adjuster and stroke limiter	4TH
Without seal adjuster and stroke limiter	4TN
With seal adjuster, black handwheel	4TS
With seal adjuster and stroke limiter, mounting for proximity switches M8 x 1	4XA
With seal adjuster and stroke limiter, locking device (both directions), mounting for proximity switches M8 x 1	4XB
With seal adjuster and stroke limiter, safety gland packing	4XE
With seal adjuster and stroke limiter, locking device to prevent closing, mounting for proximity switches M8 x 1	4XF
With seal adjuster and stroke limiter, locking device to prevent opening, mounting for proximity switches M8 x 1	4XK
With seal adjuster and stroke limiter	5TH
Without seal adjuster and stroke limiter	5TN
With seal adjuster	5TS
With seal adjuster, mounting for proximity switches M12 x 1	5XA

9 Design	Code
With seal adjuster, locking device (both directions), mounting for proximity switches M12 x 1	5XB
With seal adjuster, safety gland packing	5XE
With seal adjuster, locking device to prevent opening, mounting for proximity switches M12 x 1	5XK
Actuator size 6TH, with seal adjuster and stroke limiter	6TH
Without seal adjuster and stroke limiter	6TN
With seal adjuster	6TS
With seal adjuster, mounting for proximity switches M12 x 1	6XA
With seal adjuster, locking device (both directions), mounting for proximity switches M12 x 1	6XB
With seal adjuster, safety gland packing	6XE
With seal adjuster, locking device to prevent opening, mounting for proximity switches M12 x 1	6XK
<b>For GEMÜ 658</b>	
Actuator size 1T1	1T1
Actuator size 2T1	2T1
Actuator size 3TA	3TA
Actuator size 4T1	4T1
<b>For GEMÜ 660</b>	
Control air connector 90° offset to the flow direction, piston diameter 32 mm (standard)	0R1
Control air connector in flow direction (standard), piston diameter 32 mm (standard)	0T1
Actuator version 1R1	1R1
Actuator size 1T1	1T1
Actuator size 2R1	2R1
Actuator size 2T1	2T1
<b>For GEMÜ 673</b>	
With seal adjuster, black handwheel	2TS
With seal adjuster, black handwheel	3TS
With seal adjuster, black handwheel	4TS
<b>For GEMÜ 675-7H</b>	
Actuator size 7H with expanded handwheel and reinforced spindle for higher operating pressures	7H
<b>For GEMÜ 687</b>	
Actuator size B/N	B/N
Actuator size F/M	F/M
Actuator size F/N	F/N
Actuator size H/M	H/M
Actuator size H/N	H/N
Actuator size J/M	J/M
Actuator size J/N	J/N
Actuator size 4/N	4/N
Actuator size 4RN	4RN
Actuator size 5/N	5/N
Actuator size 5RN	5RN

9 Design	Code
Actuator size 6A	6A
Actuator size 6A2	6A2
Actuator size 7A	7A
Actuator size 7A3	7A3

10 Diaphragm material	Code
EPDM	3A
EPDM ethylene propylene without fabric	13
EPDM	17
EPDM	19
PTFE/EPDM one-piece	54
PTFE/EPDM two-piece	5M
PTFE/EPDM two-piece	5Q

11 DN	Code
DN 4	4
DN 6	6
DN 8	8
DN 10	10
DN 15	15
DN 20	20
DN 25	25
DN 32	32
DN 40	40
DN 50	50
DN 65	65
DN 80	80
DN 100	100
DN 150	150

12 Connection type	Code
<b>Spigot</b>	
Spigot DIN	0
Spigot DIN EN 10357 series B (2014 edition; formerly DIN 11850 series 1)	16
Spigot EN 10357 series A/DIN 11866 series A formerly DIN 11850 series 2	17
Spigot DIN 11850 series 3	18
Spigot JIS-G 3447	35
Spigot JIS-G 3459 schedule 10s	36
Spigot SMS 3008	37
Spigot BS 4825, Part 1	55
Spigot ASME BPE/DIN EN 10357 series C (from 2022 edition)/DIN 11866 series C	59
Spigot ISO 1127/DIN EN 10357 series C (2014 edition)/DIN 11866 series B	60
Spigot ANSI/ASME B36.19M schedule 10s	63
Spigot ANSI/ASME B36.19M schedule 10s	64
Spigot ANSI/ASME B36.19M schedule 40s	65
<b>Flange</b>	
Aseptic flange DIN 11864-NF, for pipe DIN 11866 series A and EN 10357 series A	A1
Aseptic flange DIN 11864-BF, for pipe DIN 11866 series A and EN 10357 series A	A2

## Order data

12 Connection type	Code
Aseptic flange DIN 11864-NF, for pipe DIN 11866 series B and EN ISO 1127	A4
Aseptic flange DIN 11864-BF, for pipe DIN 11866 series B and EN ISO 1127	A5
Aseptic flange DIN 11864-NF, for pipe DIN 11866 series C and ASME BPE	A7
Aseptic flange DIN 11864-BF, for pipe DIN 11866 series C and ASME BPE	A8
Aseptic union DIN 11864-GS, for pipe DIN 11866 series A and EN 10357 series A	C1
Aseptic union DIN 11864-BS, for pipe DIN 11866 series A and EN 10357 series A	C2
Aseptic union DIN 11864-GS, for pipe DIN 11866 series B and EN ISO 1127	C4
Aseptic union DIN 11864-BS, for pipe DIN 11866 series B and EN ISO 1127	C5
Aseptic pipe union DIN 11864-GS for pipe DIN 11866 series C and ASME BPE	C7
Aseptic union DIN 11864-BS for pipe DIN 11866 series C and ASME BPE	C8
<b>Clamp</b>	
Clamp ASME BPE	80
Clamp DIN 32676 series B, for pipe EN ISO 1127	82
Clamp DIN 32676 for pipe ISO 1127/DIN EN 10357 series C (2014 issue), DN 8–DN 15, clamp OD 34.0 mm, DN 32, clamp OD 50.5 mm	83

12 Connection type	Code
Clamp DIN 32676 series A	86
Clamp ISO 2852 for pipe ISO 2037, clamps SMS 3017 for pipe SMS 3008	87
Clamp ASME BPE, for pipe ASME BPE	88
Clamp DIN 32676 series A	8A
Clamp DIN 32676 series C	8P
Clamp DIN 32676 series C	8T
Aseptic clamp DIN 11864-NKS, for pipe DIN 11866 series A and EN 10357 series A	E1
Aseptic clamp DIN 11864-BKS, for pipe DIN 11866 series A and EN 10357 series A	E2
Aseptic clamp DIN 11864-NKS, for pipe DIN 11866 series B and EN ISO 1127	E4
Aseptic clamp DIN 11864-BKS, for pipe DIN 11866 series B and EN ISO 1127	E5
Aseptic clamp DIN 11864-NKS, for pipe DIN 11866 series C/ASME BPE	E7
Aseptic clamp DIN 11864-BKS, for pipe DIN 11866 series C/ASME BPE	E8
<b>13 Special version</b>	
Special version for 3A	M
Special version for oxygen, maximum medium temperature: 60 °C	S

## Order example\_General information

Ordering option	Code	Description
1 Type	P600	Valve assembly
2 Body configuration	M	M-block
3 Number of spigots	03	3 spigots
4 Number of valve seats	02	2 valve seats
5 Version	S	Body version
6 Design	R	Body design
7 Valve body material	41	1.4435 (316L), block material
8 Surface	1537	Ra ≤ 0.4 µm (15 µin.) for media wetted surfaces, in accordance with DIN 11866 HE4, electropolished internal/external
9 Special version	M	Special version for 3A

## Order example\_Actuator information

Ordering option	Code	Description
1 Seat 1 type	650	Diaphragm valve, pneumatically operated, stainless steel piston actuator electropolished, optical position indicator
2 Seat 1 actuator control function	1	Normally closed (NC)
3 Actuator version, seat 1	2T1	Actuator size 2T1

Ordering option	Code	Description
4 Seat 2 type	601	Diaphragm valve, manually operated, plastic handwheel, stainless steel distance piece, seal adjuster, optical position indicator
5 Seat 2 actuator control function	0	Manually operated
6 Actuator version, seat 2	OTS	With seal adjuster, black handwheel

### **Order example\_Spigot and connection type**

Ordering option	Code	Description
1 DN spigot 1	25	DN 25
2 Connection type, spigot 1	59	Spigot ASME BPE/DIN EN 10357 series C (from 2022 edition)/DIN 11866 series C
3 DN spigot 2	25	DN 25
4 Connection type, spigot 2	59	Spigot ASME BPE/DIN EN 10357 series C (from 2022 edition)/DIN 11866 series C
5 DN spigot 3	15	DN 15
6 Connection type, spigot 3	88	Clamp ASME BPE, for pipe ASME BPE

***Order example\_Diaphragm size and diaphragm material***

Ordering option	Code	Description
1 Seat 1 diaphragm size	25	Diaphragm size 25
2 Diaphragm material	5M	PTFE/EPDM two-piece
3 Seat 2 diaphragm size	8	Diaphragm size 8
4 Diaphragm material	54	PTFE/EPDM one-piece

## Technical data

**Note:** The detailed technical data can be found in the product types' datasheets in conjunction with the technical drawing of the valve block.

### Medium

**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.

### Temperature

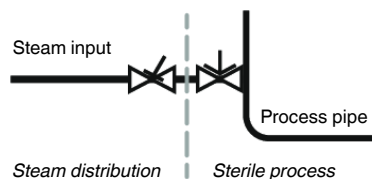
**Media temperature:** -10 – 100 °C

**Ambient temperature:** 0 – 60 °C

<b>Sterilization temperature:</b>	EPDM (code 3A/13)	max. 150 °C, max. 60 min per cycle
	EPDM (code 17)	max. 150 °C, max. 180 min per cycle
	EPDM (code 19)	max. 150 °C, max. 180 min per cycle
	PTFE/EPDM (code 54)	max. 150 °C, constant temperature per cycle
	PTFE/EPDM (code 5M)	max. 150 °C, constant temperature per cycle
	PTFE/EPDM (code 5Q)	max. 150 °C, constant temperature per cycle

The sterilization temperature is only valid for steam (saturated steam) or superheated water. If the sterilization temperatures listed above are applied to the EPDM diaphragms for longer periods of time, the service life of the diaphragms will be reduced. In these cases, maintenance cycles must be adapted accordingly.

PTFE diaphragms can also be used as steam barriers; however, this will reduce their service life. This also applies to PTFE diaphragms exposed to high temperature fluctuations. The maintenance cycles must be adapted accordingly. GEMÜ 555 and 505 globe valves are particularly suitable for use in the area of steam generation and distribution. The following valve arrangement for interfaces between steam pipes and process pipes has proven itself over time: A globe valve for shutting off steam pipes and a diaphragm valve as an interface to the process pipes.



## Pressure

### Operating pressure:

#### GEMÜ 605 operating pressure

Diaphragm size	DN	Control function	Actuator version	EPDM	PTFE/EPDM
8	4 - 15	1	0/N	0-8	0-6
		2 + 3	0/N	0-8	0-6

MG = diaphragm size

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.

#### GEMÜ 625 operating pressure

Diaphragm size	DN	Control function	Actuator version	EPDM	PTFE/EPDM
10	10 - 20	1	1/N	0-6	0-6
		2	1/N	0-6	0-6
		3	1/N	0-6	0-6

MG = diaphragm size

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.



Operating pressure:

**GEMÜ 650 BioStar operating pressure**

Diaphragm size	DN	Control function	Actuator version	EPDM	PTFE/EPDM
<b>8</b>	<b>4 - 15</b>	<b>1</b>	0T1, 0R1	0-8	0-6
			0TA, 0RA	0-10	0-10
		<b>2 + 3</b>	0T1, 0R1, 0TA, 0RA	0-10	0-10
<b>10</b>	<b>10 - 20</b>	<b>1</b>	1T1, 1R1	0-10	0-10
		<b>2 + 3</b>	1T1, 1R1	0-10	0-10
<b>25</b>	<b>15 - 25</b>	<b>1</b>	2T1, 2R1	0-10	0-10
		<b>2 + 3</b>	2T1, 2R1	0-10	0-10
<b>40</b>	<b>32 - 40</b>	<b>1</b>	3T1, 3R1	0-10	0-6
			3TA, 3RA	-	0-10
		<b>2 + 3</b>	3T1, 3R1	0-10	0-10
<b>50</b>	<b>50 - 65</b>	<b>1</b>	4T1, 4R1	0-10	0-10
		<b>2 + 3</b>	4T1, 4R1	0-10	0-10
<b>80</b>	<b>65 - 80</b>	<b>1</b>	5T1, 5R1	0-8	0-5
			5TA, 5RA	-	0-10
			5TB, 5RB	0-10	-
		<b>2 + 3</b>	5T1, 5R1	0-10	0-10
<b>100</b>	<b>100</b>	<b>1</b>	6T1, 6R1	0-6	0-4
			6TA, 6RA	0-10	0-10
		<b>2 + 3</b>	6T1, 6R1	0-10	0-10
<b>150</b>	<b>150</b>	<b>1</b>	8TA, 8RA	-	0-10

MG = diaphragm size

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.

**GEMÜ 651 operating pressure**

MG	DN	Actuator version code	Diaphragm material	
			EPDM	PTFE
<b>8</b>	<b>4 - 15</b>	<b>0</b>	0 - 10	0 - 6
<b>10</b>	<b>10 - 15</b>	<b>1</b>	0 - 10	0 - 6
<b>25</b>	<b>15 - 25</b>	<b>2</b>	0 - 10	0 - 6

MG = diaphragm size

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.

**Operating pressure:**

**GEMÜ 658 operating pressure**

Diaphragm size	DN	Control function	Actuator version	EPDM	PTFE (code 5M)	PTFE (code 54)
10	10 - 20	1	1T1	0-10	0-10	0-8
25	15 - 25	1	2T1	0-10	0-10	0-8
40	32 - 40	1	3TA	0-10	0-10	0-8
50	50 - 65	1	4T1	0-10	0-10	0-8

MG = diaphragm size

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.

**GEMÜ 660 operating pressure**

Diaphragm size	DN	Control function	Actuator version	EPDM	PTFE/EPDM
8	4 - 15	1	0T1, 0R1	0-5	0-5
		2 + 3	0T1, 0R1	0-5	0-5
10	10 - 20	1	1T1, 1R1	0-5	0-5
		2 + 3	1T1, 1R1	0-5	0-5
25	15 - 25	1	2T1, 2R1	0-5	0-5
		2 + 3	2T1, 2R1	0-5	0-5

MG = diaphragm size

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.

## Operating pressure:

## GEMÜ 687 operating pressure

Diaphragm size	DN	Control function	Actuator version	EPDM	PTFE/EPDM		
<b>10</b>	<b>10 - 20</b>	1	B/N	0-10	0-6		
		2	B/N	0-6	0-6		
		3	B/N	0-6	0-6		
<b>25</b>	<b>15 - 25</b>	1	F/M, FRM	0-6	0-6		
			F/N, FRN	0-10	0-10		
		2	F/M, FRM	-	-		
			F/N, FRN	0-10	0-10		
		3	F/M, FRM	-	-		
			F/N, FRN	0-10	0-10		
<b>40</b>	<b>32 - 40</b>	1	H/M, HRM	0-6	0-6		
			H/N, HRN	0-10	0-10		
		2	H/M, HRM	-	-		
			H/N, HRN	0-10	0-10		
		3	H/M, HRM	-	-		
			H/N, HRN	0-10	0-10		
<b>50</b>	<b>50 - 65</b>	1	J/M, JRM	0-6	0-6		
			J/N, JRN	0-10	0-10		
		2	J/M, JRM	-	-		
			J/N, JRN	0-10	0-10		
		3	J/M, JRM	-	-		
			J/N, JRN	0-10	0-10		
<b>80</b>	<b>65 - 80</b>	1	4/N, 4RN	0-8	0-5		
			6A	-	-		
			6A2	-	0-10		
		2	4/N, 4RN	0-8	0-6		
			6A	-	0-10		
			6A2	-	-		
		3	4/N, 4RN	0-8	0-6		
			6A	-	0-10		
			6A2	-	-		
		<b>100</b>	<b>100</b>	1	5/N	0-6	0-4
					7A	-	-
					7A3	-	0-10
2	5/N, 5RN			0-6	0-4		
	7A			-	0-10		
	7A3			-	-		
3	5/N, 5RN			0-6	0-4		
	7A			-	0-10		
	7A3			-	-		

MG = diaphragm size

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.

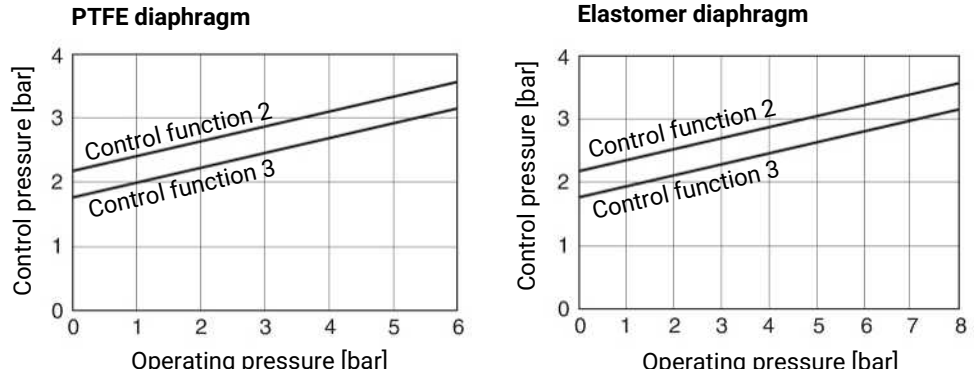
**Control pressure:**

**GEMÜ 605 control pressure**

Diaphragm size	DN	Control function	Actuator version	Control pressure
<b>8</b>	<b>4 - 15</b>	1	0/N	4.0–7.0
		2 + 3	0/N	max. 4.0

MG = diaphragm size  
 All pressures are gauge pressures.

**GEMÜ 605: Control pressure – operating pressure – diagram – control function 2 and 3**



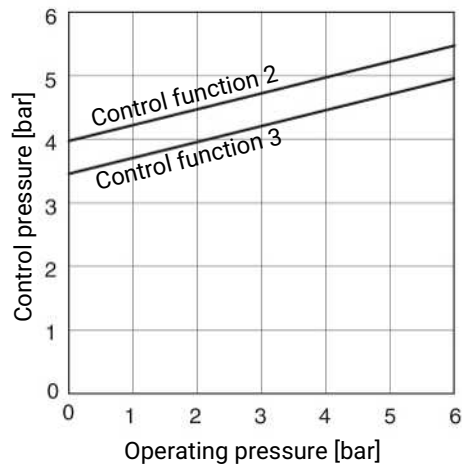
The control pressure depending on the prevailing operating pressure, as shown in the diagram, is intended as a guide for operating the system with low wear on the diaphragm.

**GEMÜ 625 control pressure**

Diaphragm size	DN	Control function	Actuator version	Control pressure
<b>10</b>	<b>10 - 20</b>	1	1/N	5.0–7.0
		2	1/N	Max. 6.0
		3	1/N	Max. 5.0

MG = diaphragm size  
 All pressures are gauge pressures.

**GEMÜ 625: Control pressure – operating pressure – diagram – control function 2 and 3**



The control pressure depending on the prevailing operating pressure, as shown in the diagram, is intended as a guide for operating the system with low wear on the diaphragm.

Control pressure:

GEMÜ 650 BioStar control pressure

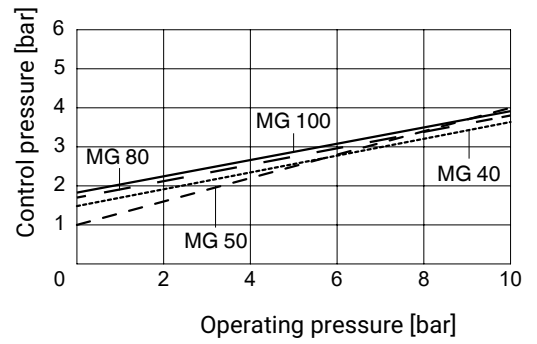
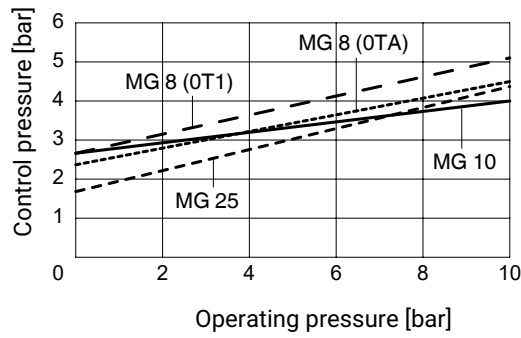
Diaphragm size	DN	Control function	Actuator version	Control pressure
<b>8</b>	<b>4 - 15</b>	<b>1</b>	0T1, 0R1	5.0–7.0
			0TA, 0RA	3.5–7.0
		<b>2 + 3</b>	0T1, 0R1,	max. 5.5
			0TA, 0RA	max. 4.5
<b>10</b>	<b>10 - 20</b>	<b>1</b>	1T1, 1R1	4.5–7.0
		<b>2 + 3</b>	1T1, 1R1	max. 4.5
<b>25</b>	<b>15 - 25</b>	<b>1</b>	2T1, 2R1	5.0–7.0
		<b>2 + 3</b>	2T1, 2R1	max. 4.5
<b>40</b>	<b>32 - 40</b>	<b>1</b>	3T1, 3R1	4.5–7.0
			3TA, 3RA	3.5–7.0
		<b>2 + 3</b>	3T1, 3R1	max. 4.5
<b>50</b>	<b>50 - 65</b>	<b>1</b>	4T1, 4R1	4.5–7.0
		<b>2 + 3</b>	4T1, 4R1	max. 4.5
<b>80</b>	<b>65 - 80</b>	<b>1</b>	5T1, 5R1	3.5–7.0
			5TA, 5RA	4.5–7.0
			5TB, 5RB	4.0–7.0
		<b>2 + 3</b>	5T1, 5R1	max. 4.0
<b>100</b>	<b>100</b>	<b>1</b>	6T1, 6R1	3.5–7.0
			6TA, 6RA	5.0–7.0
		<b>2 + 3</b>	6T1, 6R1	max. 4.0
<b>150</b>	<b>150</b>	<b>1</b>	8TA, 8RA	7.0–8.0

MG = diaphragm size  
 All pressures are gauge pressures.

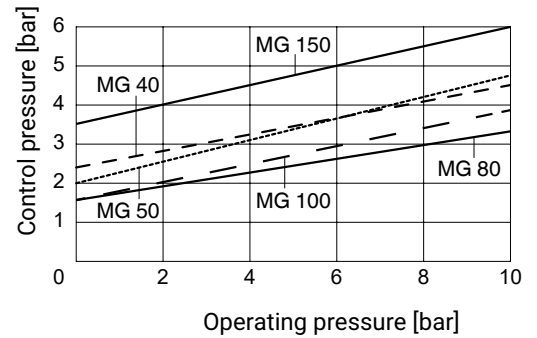
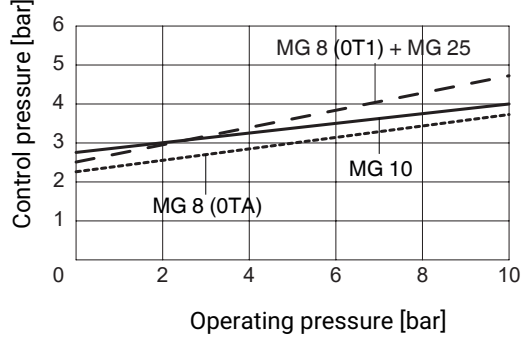
**Control pressure:**

**GEMÜ 650: Control pressure – operating pressure – diagram – control function 2 and 3**

**Elastomer diaphragm**



**PTFE diaphragm**



The control pressure depending on the prevailing operating pressure, as shown in the diagram, is intended as a guide for operating the system with low wear on the diaphragm.

**GEMÜ 651 control pressure**

MG	DN	Actuator version code	Control function 1	Control function 2
8	4 - 15	0	3.5 - 7.0	max. 4.5
10	10 - 15	1	4.5 - 7.0	max. 4.5
25	15 - 25	2	5.0 - 7.0	max. 4.5

MG = diaphragm size  
All pressures are gauge pressures.

**GEMÜ 658 control pressure**

Diaphragm size	DN	Control function	Actuator version	Control pressure
10	10 - 20	1	1T1	4.5–6.0
25	15 - 25	1	2T1	5.5–7.0
40	32 - 40	1	3TA	3.5–7.0
50	50 - 65	1	4T1	5.5–7.0

MG = diaphragm size  
All pressures are gauge pressures.

**Control pressure:**

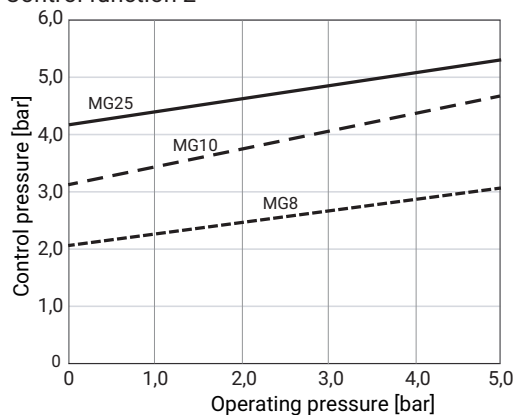
**GEMÜ 660 control pressure**

Diaphragm size	DN	Control function	Actuator version	Control pressure
<b>8</b>	<b>4 - 15</b>	1	0T1, 0R1	5.0–7.0
		2 + 3	0T1, 0R1	max. 5.5
<b>10</b>	<b>10 - 20</b>	1	1T1, 1R1	5.0–7.0
		2 + 3	1T1, 1R1	max. 7.0
<b>25</b>	<b>15 - 25</b>	1	2T1, 2R1	4.0–7.0
		2 + 3	2T1, 2R1	max. 7.0

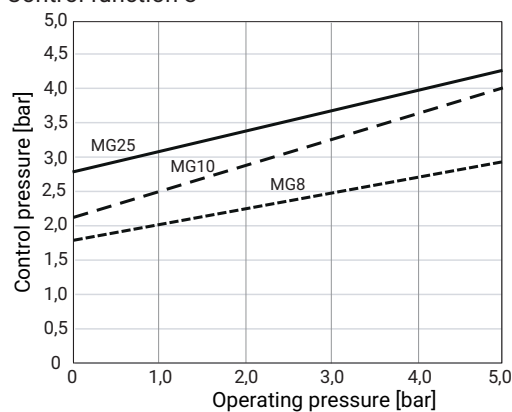
MG = diaphragm size  
 All pressures are gauge pressures.

**GEMÜ 660: Control pressure/operating pressure diagram – Control function 2 and 3**

Control function 2



Control function 3



The control pressure depending on the prevailing operating pressure, as shown in the diagram, is intended as a guide for operating the system with low wear on the diaphragm.

**Control pressure:**

**GEMÜ 687 control pressure**

Diaphragm size	DN	Control function	Actuator version	Control pressure		
<b>10</b>	<b>10 - 20</b>	1	B/N	3.5–7.0		
		2	B/N	Max. 6.0		
		3	B/N	Max. 5.0		
<b>25</b>	<b>15 - 25</b>	1	F/M, FRM	3.8–6.0		
			F/N, FRN	5.5–7.0		
		2	F/M, FRM	-		
			F/N, FRN	max. 5.5		
		3	F/M, FRM	-		
			F/N, FRN	max. 5.5		
<b>40</b>	<b>32 - 40</b>	1	H/M, HRM	3.8–6.0		
			H/N, HRN	5.5–7.0		
		2	H/M, HRM	-		
			H/N, HRN	max. 5.5		
		3	H/M, HRM	-		
			H/N, HRN	max. 5.5		
<b>50</b>	<b>50 - 65</b>	1	J/M, JRM	3.8–6.0		
			J/N, JRN	5.5–7.0		
		2	J/M, JRM	-		
			J/N, JRN	Max. 5.0		
		3	J/M, JRM	-		
			J/N, JRN	Max. 5.0		
<b>80</b>	<b>65 - 80</b>	1	4/N, 4RN	5.5–7.0		
			6A	-		
			6A2	4.0–7.0		
		2	4/N, 4RN	Max. 5.0		
			6A	Max. 3.0		
			6A2	-		
		3	4/N, 4RN	max. 4.5		
			6A	Max. 3.0		
			6A2	-		
		<b>100</b>	<b>100</b>	1	5/N, 5RN	5.5–7.0
					7A	-
					7A3	4.5–7.0
2	5/N, 5RN			Max. 5.0		
	7A			Max. 3.5		
	7A3			-		
3	5/N, 5RN			max. 4.5		
	7A			Max. 3.5		
	7A3			-		

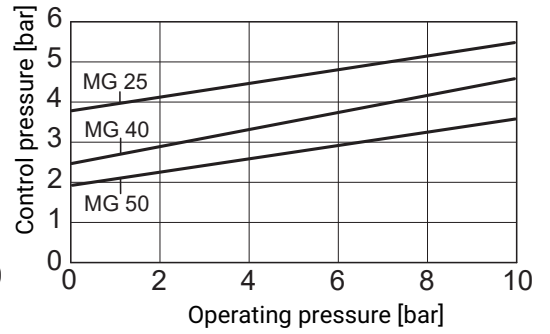
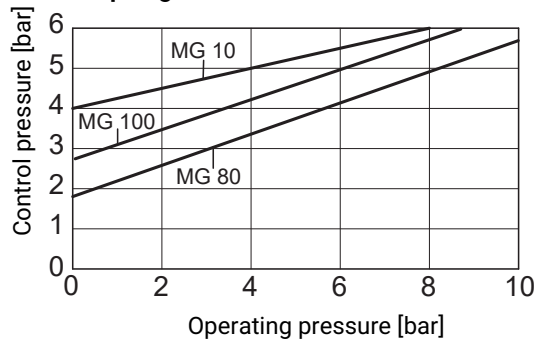
MG = diaphragm size  
 All pressures are gauge pressures.



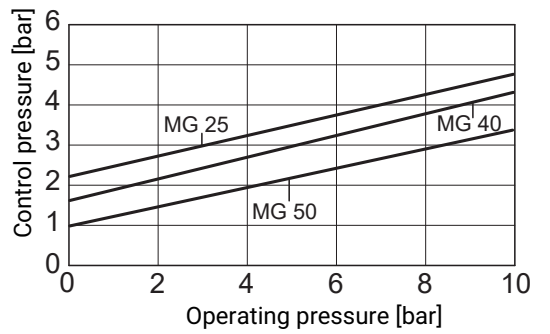
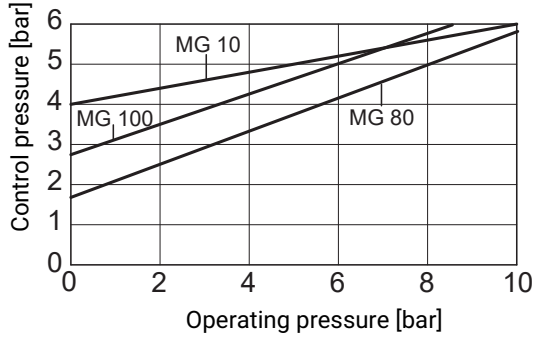
Control pressure:

GEMÜ 687: Control pressure/operating pressure diagram – Control function 2 and 3

**PTFE diaphragm**



**Elastomer diaphragm**



The control pressure depending on the prevailing operating pressure, as shown in the diagram, is intended as a guide for operating the system with low wear on the diaphragm.

## ***Product conformity***

<b>Pressure Equipment Directive:</b>	2014/68/EU
<b>Machinery Directive:</b>	2006/42/EC
<b>EMC Directive:</b>	2014/30/EU when using a motorized actuator
<b>Low Voltage Directive:</b>	2014/35/EU when using a motorized actuator
<b>BSE/TSE:</b>	The product conforms to EMA/410/01 revision 3 and is free of animal substances
<b>EAC:</b>	TR CU 010/2011
<b>Food:</b>	FDA 3A CRN USP Class VI Regulation (EC) No. 1935/2004 Regulation (EC) No. 2023/2006 Regulation (EC) No. 10/2011

## ***Mechanical data***

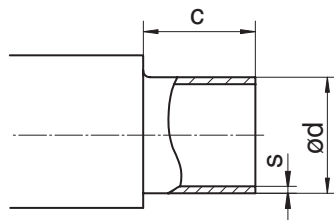
The mechanical data can be found in the product types' datasheets in conjunction with the technical drawing of the valve block.

## Dimensions

**Note:** The detailed dimensions can be found in the product types' datasheets in conjunction with the technical drawing of the valve block.

### Body dimensions

#### Spigot DIN/EN/ISO (code 0, 16, 17, 18, 60)



#### Connection type spigot DIN/EN/ISO (code 0, 16, 17, 18, 60)<sup>1)</sup>, block material (code 41, 43, 44)<sup>2)</sup>

Dia- phragm size	DN	NPS	c (min)	ød					s				
				Connection type					Connection type				
				0	16	17	18	60	0	16	17	18	60
<b>8</b>	<b>4</b>	-	10.0	6.0	-	-	-	-	1.0	-	-	-	-
	<b>6</b>	-	20.0	-	-	8.0	-	10.2	-	-	1.0	-	1.6
	<b>8</b>	1/4"	20.0	-	-	10.0	-	13.5	-	-	1.0	-	1.6
	<b>10</b>	3/8"	20.0	-	12.0	13.0	14.0	-	-	1.0	1.5	2.0	-
<b>10</b>	<b>10</b>	3/8"	20.0	-	12.0	13.0	14.0	17.2	-	1.0	1.5	2.0	1.6
	<b>15</b>	1/2"	20.0	18.0	18.0	19.0	20.0	21.3	1.5	1.0	1.5	2.0	1.6
<b>25</b>	<b>15</b>	1/2"	20.0	18.0	18.0	19.0	20.0	21.3	1.5	1.0	1.5	2.0	1.6
	<b>20</b>	3/4"	25.0	22.0	22.0	23.0	24.0	26.9	1.5	1.0	1.5	2.0	1.6
	<b>25</b>	1"	25.0	28.0	28.0	29.0	30.0	33.7	1.5	1.0	1.5	2.0	2.0
<b>40</b>	<b>32</b>	1 1/4"	25.0	34.0	34.0	35.0	36.0	42.4	1.5	1.0	1.5	2.0	2.0
	<b>40</b>	1 1/2"	25.0	40.0	40.0	41.0	42.0	48.3	1.5	1.0	1.5	2.0	2.0
<b>50</b>	<b>50</b>	2"	30.0	52.0	52.0	53.0	54.0	60.3	1.5	1.0	1.5	2.0	2.0
<b>80</b>	<b>65</b>	2 1/2"	30.0	-	-	70.0	-	76.1	-	-	2.0	-	2.0
	<b>80</b>	3"	30.0	-	-	85.0	-	88.9	-	-	2.0	-	2.3
<b>100</b>	<b>100</b>	4"	30.0	-	-	104.0	-	114.3	-	-	2.0	-	2.3

Dimensions in mm

MG = diaphragm size

#### 1) Connection type, spigot 1

Code 0: Spigot DIN

Code 16: Spigot DIN EN 10357 series B (2014 edition; formerly DIN 11850 series 1)

Code 17: Spigot EN 10357 series A/DIN 11866 series A formerly DIN 11850 series 2

Code 18: Spigot DIN 11850 series 3

Code 60: Spigot ISO 1127/DIN EN 10357 series C (2014 edition)/DIN 11866 series B

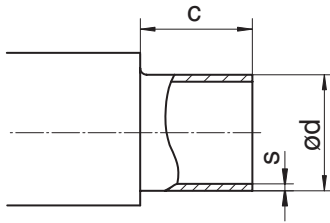
#### 2) Valve body material

Code 41: 1.4435 (316L), block material

Code 43: 1.4435 (BN2), block material, Δ Fe < 0.5%

Code 44: 1.4539, block material

**Spigot ASME/BS (code 55, 59, 63, 64, 65)**



**Connection type spigot ASME/BS (code 55, 59, 63, 64, 65)<sup>1)</sup>, block material (code 41, 43, 44)<sup>2)</sup>**

Dia- phragm size	DN	NPS	c (min)	ød					s				
				Connection type					Connection type				
				55	59	63	64	65	55	59	63	64	65
<b>8</b>	<b>6</b>	-	20.0	-	-	10.3	-	10.3	-	-	1.24	-	1.73
	<b>8</b>	1/4"	20.0	6.35	6.35	13.7	-	13.7	1.2	0.89	1.65	-	2.24
	<b>10</b>	3/8"	20.0	9.53	9.53	-	-	-	1.2	0.89	-	-	-
	<b>15</b>	1/2"	20.0	12.70	12.70	-	-	-	1.2	1.65	-	-	-
<b>10</b>	<b>10</b>	3/8"	20.0	9.53	9.53	17.1	-	17.1	1.2	0.89	1.65	-	2.31
	<b>15</b>	1/2"	20.0	12.70	12.70	21.3	21.3	21.3	1.2	1.65	2.11	1.65	2.77
	<b>20</b>	3/4"	25.0	19.05	19.05	-	-	-	1.2	1.65	-	-	-
<b>25</b>	<b>15</b>	1/2"	20.0	-	-	21.3	21.3	21.3	-	-	2.11	1.65	2.77
	<b>20</b>	3/4"	25.0	19.05	19.05	26.7	26.7	26.7	1.2	1.65	2.11	1.65	2.87
	<b>25</b>	1"	25.0	-	25.40	33.4	33.4	33.4	-	1.65	2.77	1.65	3.38
<b>40</b>	<b>32</b>	1 1/4"	25.0	-	-	42.2	42.2	42.2	-	-	2.77	1.65	3.56
	<b>40</b>	1 1/2"	25.0	-	38.10	48.3	48.3	48.3	-	1.65	2.77	1.65	3.68
<b>50</b>	<b>50</b>	2"	30.0	-	50.80	60.3	60.3	60.3	-	1.65	2.77	1.65	3.91
	<b>65</b>	2 1/2"	30.0	-	63.50	-	-	-	-	1.65	-	-	-
<b>80</b>	<b>65</b>	2 1/2"	30.0	-	63.50	73.0	73.0	73.0	-	1.65	3.05	2.11	5.16
	<b>80</b>	3"	30.0	-	76.20	88.9	88.9	88.9	-	1.65	3.05	2.11	5.49
<b>100</b>	<b>100</b>	4"	30.0	-	101.60	114.3	114.3	114.3	-	2.11	3.05	2.11	6.02
<b>150</b>	<b>150</b>	6"	30.0	-	152.40	-	-	-	-	2.77	-	-	-

Dimensions in mm

MG = diaphragm size

**1) Connection type, spigot 1**

Code 55: Spigot BS 4825, Part 1

Code 59: Spigot ASME BPE/DIN EN 10357 series C (from 2022 edition)/DIN 11866 series C

Code 63: Spigot ANSI/ASME B36.19M schedule 10s

Code 64: Spigot ANSI/ASME B36.19M schedule 10s

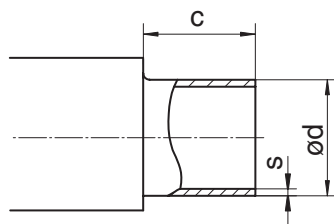
Code 65: Spigot ANSI/ASME B36.19M schedule 40s

**2) Valve body material**

Code 41: 1.4435 (316L), block material

Code 43: 1.4435 (BN2), block material, Δ Fe < 0.5%

Code 44: 1.4539, block material

**Spigot JIS/SMS (code 35, 36, 37)****Connection type spigot JIS/SMS (code 35, 36, 37)<sup>1)</sup>, block material (code 41, 43, 44)<sup>2)</sup>**

Dia- phragm size	DN	NPS	c (min)	ød			s		
				Connection type			Connection type		
				35	36	37	35	36	37
8	6	-	20.0	-	10.5	-	-	1.20	-
	8	1/4"	20.0	-	13.8	-	-	1.65	-
10	10	3/8"	20.0	-	17.3	-	-	1.65	-
	15	1/2"	20.0	-	21.7	-	-	2.10	-
25	15	1/2"	20.0	-	21.7	-	-	2.10	-
	20	3/4"	25.0	-	27.2	-	-	2.10	-
	25	1"	25.0	25.4	34.0	25.0	1.2	2.80	1.2
40	32	1¼"	25.0	31.8	42.7	33.7	1.2	2.80	1.2
	40	1½"	25.0	38.1	48.6	38.0	1.2	2.80	1.2
50	50	2"	30.0	50.8	60.5	51.0	1.5	2.80	1.2
	65	2½"	30.0	63.5	-	63.5	2.0	-	1.6
80	65	2½"	30.0	63.5	76.3	63.5	2.0	3.00	1.6
	80	3"	30.0	76.3	89.1	76.1	2.0	3.00	1.6
100	100	4"	30.0	101.6	114.3	101.6	2.0	3.00	2.0

Dimensions in mm

MG = diaphragm size

**1) Connection type, spigot 1**

Code 35: Spigot JIS-G 3447

Code 36: Spigot JIS-G 3459 schedule 10s

Code 37: Spigot SMS 3008

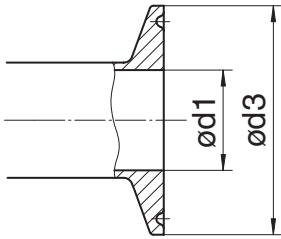
**2) Valve body material**

Code 41: 1.4435 (316L), block material

Code 43: 1.4435 (BN2), block material, Δ Fe &lt; 0.5%

Code 44: 1.4539, block material

**Clamp DIN/ASME (code 80, 88, 8P, 8T)**



Connection type clamp DIN/ASME (code 80, 88, 8P, 8T)<sup>1)</sup>, block material (code 41, 43, 44)<sup>2)</sup>

Diaphragm size	DN	NPS	ød1		ød3	
			Connection type		Connection type	
			80, 8P	88, 8T	80, 8P	88, 8T
8	8	1/4"	4.57	-	25.0	-
	10	3/8"	7.75	-	25.0	-
	15	1/2"	9.40	9.40	25.0	25.0
10	15	1/2"	9.40	9.40	25.0	25.0
	20	3/4"	15.75	15.75	25.0	25.0
25	20	3/4"	15.75	15.75	25.0	25.0
	25	1"	22.10	22.10	50.5	50.5
40	40	1½"	34.80	34.80	50.5	50.5
50	50	2"	47.50	47.50	64.0	64.0
	65	2½"	60.20	60.20	77.5	77.5
80	65	2½"	60.20	60.20	77.5	77.5
	80	3"	72.90	72.90	91.0	91.0
100	100	4"	97.83	97.38	119.0	119.0
150	150	6"	-	146.86	-	167.0

Dimensions in mm

MG = diaphragm size

1) **Connection type, spigot 1**

Code 80: Clamp ASME BPE

Code 88: Clamp ASME BPE, for pipe ASME BPE

Code 8P: Clamp DIN 32676 series C

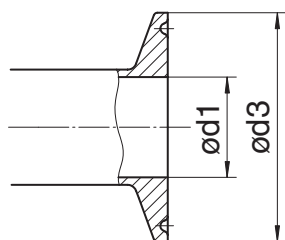
Code 8T: Clamp DIN 32676 series C

2) **Valve body material**

Code 41: 1.4435 (316L), block material

Code 43: 1.4435 (BN2), block material, Δ Fe < 0.5%

Code 44: 1.4539, block material

**Clamp DIN/ISO (code 82, 83, 86, 87, 8A)****Connection type clamp DIN/ISO (code 82, 83, 86, 87, 8A)<sup>1)</sup>, block material (code 41, 43, 44)<sup>2)</sup>**

Dia- phragm size	DN	NPS	ød1					ød3				
			Connection type					Connection type				
			82	83	86	87	8A	82	83	86	87	8A
<b>8</b>	<b>6</b>	<b>1/8"</b>	7.0	-	-	-	6.0	25.0	-	-	-	25.0
	<b>8</b>	<b>1/4"</b>	10.3	10.3	-	-	8.0	25.0	34.0	-	-	25.0
	<b>10</b>	<b>3/8"</b>	-	-	10.0	-	10.0	-	-	34.0	-	34.0
<b>10</b>	<b>10</b>	<b>3/8"</b>	14.0	14.0	10.0	-	10.0	25.0	34.0	34.0	-	34.0
	<b>15</b>	<b>1/2"</b>	18.1	18.1	16.0	-	16.0	50.5	34.0	34.0	-	34.0
<b>25</b>	<b>15</b>	<b>1/2"</b>	18.1	18.1	16.0	-	16.0	50.5	34.0	34.0	-	34.0
	<b>20</b>	<b>3/4"</b>	23.7	-	20.0	-	20.0	50.5	-	34.0	-	34.0
	<b>25</b>	<b>1"</b>	29.7	-	26.0	22.6	26.0	50.5	-	50.5	50.5	50.5
<b>40</b>	<b>32</b>	<b>1¼"</b>	38.4	-	32.0	31.3	32.0	64.0	-	50.5	31.3	50.5
	<b>40</b>	<b>1½"</b>	44.3	-	38.0	35.6	38.0	64.0	-	50.5	50.5	50.5
<b>50</b>	<b>50</b>	<b>2"</b>	56.3	-	50.0	48.6	50.0	77.5	-	64.0	64.0	64.0
<b>80</b>	<b>65</b>	<b>2½"</b>	72.1	-	66.0	60.3	66.0	91.0	-	91.0	77.5	91.0
	<b>80</b>	<b>3"</b>	84.3	-	81.0	72.9	81.0	106.0	-	106.0	91.0	106.0
<b>100</b>	<b>100</b>	<b>4"</b>	109.7	-	100.0	97.6	100.0	130.0	-	119.0	119.0	119.0

Dimensions in mm

MG = diaphragm size

**1) Connection type, spigot 1**

Code 82: Clamp DIN 32676 series B, for pipe EN ISO 1127

Code 83: Clamp DIN 32676 for pipe ISO 1127/DIN EN 10357 series C (2014 issue), DN 8–DN 15, clamp OD 34.0 mm, DN 32, clamp OD 50.5 mm

Code 86: Clamp DIN 32676 series A

Code 87: Clamp ISO 2852 for pipe ISO 2037, clamps SMS 3017 for pipe SMS 3008

Code 8A: Clamp DIN 32676 series A

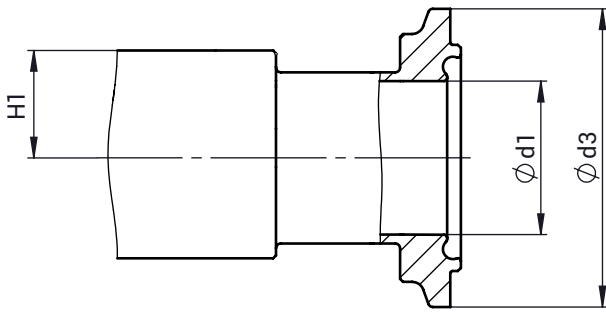
**2) Valve body material**

Code 41: 1.4435 (316L), block material

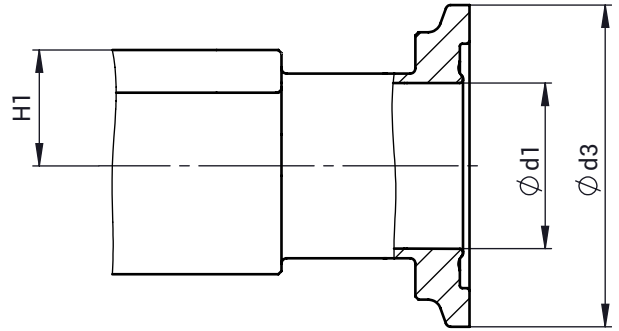
Code 43: 1.4435 (BN2), block material, Δ Fe &lt; 0.5%

Code 44: 1.4539, block material

**Aseptic clamp connector (code E1, E2, E4, E5, E7, E8)**



Connection code E1, E4, E7 – grooved clamp



Connection code E2, E5, E8 – notched clamp

**Aseptic clamp connector DIN 11864-3 (code E1, E2, E4, E5, E7, E8)<sup>1)</sup>, block material (code 41, 43, 44)<sup>2)</sup>**

Pipe connection for aseptic clamp connector				EN 10357 series A (formerly DIN 11850 series 2)/DIN 11866 series A	ISO 1127/EN 10357 series C/ DIN 11866 series B	ASME BPE/ DIN 11866 series C			
Pipe connection code				17	60	59			
Aseptic clamp connector				DIN 11864-3					
Connection code				E1, E2		E4, E5		E7, E8	
MG	DN	NPS	H1	ød1	ød3	ød1	ød3	ød1	ød3
8	8	1/4"	8.5	-	-	10.3	34.0	-	-
	10	3/8"	8.5	10.0	34.0	-	-	-	-
	15	1/2"	8.5	-	-	-	-	9.4	34.0
10	10	3/8"	12.5	10.0	34.0	14.0	34.0	-	-
	15	1/2"	12.5	16.0	34.0	18.1	34.0	9.4	34.0
	20	3/4"	12.5	-	-	-	-	15.75	34.0
25	15	1/2"	19.0	16.0	34.0	18.1	34.0	-	-
	20	3/4"	19.0	20.0	50.5	23.7	50.5	15.75	34.0
	25	1"	19.0	26.0	50.5	29.7	50.5	22.1	50.5
40	32	1 1/4"	26.0	32.0	50.5	38.4	64.0	-	-
	40	1 1/2"	26.0	38.0	64.0	44.3	64.0	34.8	64.0
50	50	2"	32.0	50.0	77.5	56.3	91.0	47.5	77.5
	65	2 1/2"	32.0	-	-	-	-	60.2	91.0
80	65	2 1/2"	50.0	66.0	91.0	72.1	106.0	60.2	91.0
	80	3"	50.0	81.0	106.0	84.3	119.0	72.9	106.0
100	100	4"	70.0	100.0	130.0	-	-	97.38	130.0

Dimensions in mm

MG = diaphragm size

1) **Connection type, spigot 1**

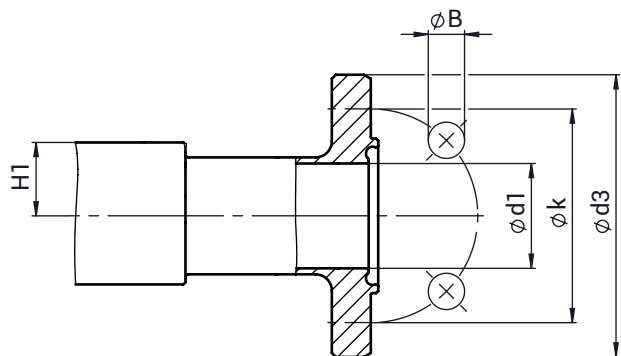
- Code E1: Aseptic clamp DIN 11864-NKS, for pipe DIN 11866 series A and EN 10357 series A
- Code E2: Aseptic clamp DIN 11864-BKS, for pipe DIN 11866 series A and EN 10357 series A
- Code E4: Aseptic clamp DIN 11864-NKS, for pipe DIN 11866 series B and EN ISO 1127
- Code E5: Aseptic clamp DIN 11864-BKS, for pipe DIN 11866 series B and EN ISO 1127
- Code E7: Aseptic clamp DIN 11864-NKS, for pipe DIN 11866 series C/ASME BPE
- Code E8: Aseptic clamp DIN 11864-BKS, for pipe DIN 11866 series C/ASME BPE

2) **Valve body material**

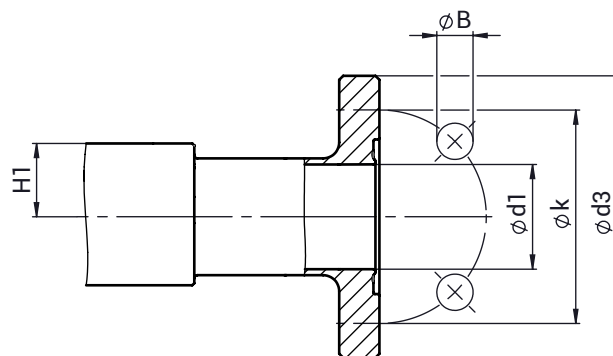
- Code 41: 1.4435 (316L), block material
- Code 43: 1.4435 (BN2), block material, Δ Fe < 0.5%
- Code 44: 1.4539, block material



**Aseptic flanged connection (code A1, A2, A4, A5, A7, A8)**



Connection code A1, A4, A7 – grooved flange



Connection code A2, A5, A8 – loose flange

**Connection type aseptic flange connection DIN 11864-2 (code A1, A2, A4, A5, A7, A8)<sup>1)</sup>, block material (code 41, 43, 44)<sup>2)</sup>**

Pipe connection for aseptic flange				EN 10357 series A (formerly DIN 11850 series 2)/DIN 11866 series A				ISO 1127/EN 10357 series C/ DIN 11866 series B				ASME BPE/ DIN 11866 series C				
Pipe connection code				17				60				59				
Aseptic flanged connection				DIN 11864-2												
Connection code				A1, A2				A4, A5				A7, A8				
MG	DN	NPS	H1	n	$\phi d1$	$\phi D$	$\phi k$	$\phi L$	$\phi d1$	$\phi D$	$\phi k$	$\phi L$	$\phi d1$	$\phi D$	$\phi k$	$\phi L$
8	8	1/4"	8.5	4	-	-	-	-	10.3	54.0	37.0	9.0	-	-	-	-
	10	3/8"	8.5	4	10.0	54.0	37.0	9.0	-	-	-	-	-	-	-	-
	15	1/2"	8.5	4	-	-	-	-	-	-	-	-	9.4	54.0	37.0	9.0
10	10	3/8"	12.5	4	10.0	54.0	37.0	9.0	14.0	59.0	42.0	9.0	-	-	-	-
	15	1/2"	12.5	4	16.0	59.0	42.0	9.0	18.1	62.0	45.0	9.0	9.4	54.0	37.0	9.0
	20	3/4"	12.5	4	-	-	-	-	-	-	-	-	15.75	59.0	42.0	9.0
25	15	1/2"	19.0	4	16.0	59.0	42.0	9.0	18.1	62.0	45.0	9.0	-	-	-	-
	20	3/4"	19.0	4	20.0	64.0	47.0	9.0	23.7	69.0	52.0	9.0	15.75	59.0	42.0	9.0
	25	1"	19.0	4	26.0	70.0	53.0	9.0	29.7	74.0	57.0	9.0	22.1	66.0	49.0	9.0
40	32	1 1/4"	26.0	4	32.0	76.0	59.0	9.0	38.4	82.0	65.0	9.0	-	-	-	-
	40	1 1/2"	26.0	4	38.0	82.0	65.0	9.0	44.3	88.0	71.0	9.0	34.8	79.0	62.0	9.0
50	50	2"	32.0	4	50.0	94.0	77.0	9.0	56.3	103.0	85.0	9.0	47.5	92.0	75.0	9.0
	65	2 1/2"	32.0	-	-	-	-	-	-	-	-	-	60.2	107.0	89.0	9.0
80	65	2 1/2"	50.0	8	66.0	113.0	95.0	9.0	72.1	137.0	104.0	11.0	60.2	107.0	89.0	9.0
	80	3"	50.0	8	81.0	133.0	112.0	11.0	84.3	137.0	116.0	11.0	72.9	125.0	104.0	11.0
100	100	4"	70.0	8	100.0	159.0	137.0	11.0	109.7	168.0	146.0	11.0	97.38	157.0	135.0	11.0

Dimensions in mm

MG = diaphragm size

n = number of bolts

**1) Connection type, spigot 1**

Code A1: Aseptic flange DIN 11864-NF, for pipe DIN 11866 series A and EN 10357 series A

Code A2: Aseptic flange DIN 11864-BF, for pipe DIN 11866 series A and EN 10357 series A

Code A4: Aseptic flange DIN 11864-NF, for pipe DIN 11866 series B and EN ISO 1127

Code A5: Aseptic flange DIN 11864-BF, for pipe DIN 11866 series B and EN ISO 1127

Code A7: Aseptic flange DIN 11864-NF, for pipe DIN 11866 series C and ASME BPE

Code A8: Aseptic flange DIN 11864-BF, for pipe DIN 11866 series C and ASME BPE

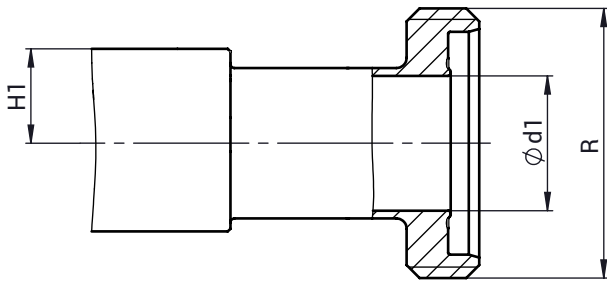
**2) Valve body material**

Code 41: 1.4435 (316L), block material

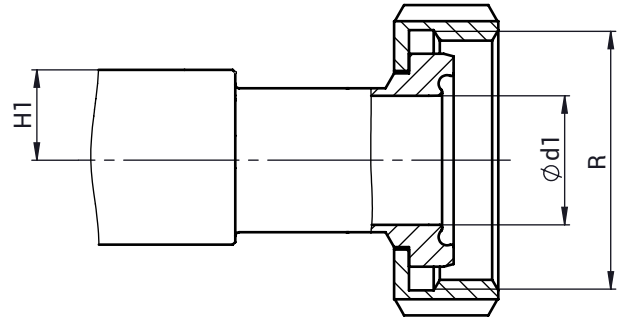
Code 43: 1.4435 (BN2), block material,  $\Delta Fe < 0.5\%$

Code 44: 1.4539, block material

**Aseptic pipe union (code C1, C2, C4, C5, C7, C8)**



Connection code C1, C4, C7 – threaded spigot



Connection code C2, C5, C8 – female union

**Connection type aseptic pipe union DIN 11864-1 (code C1, C2, C4, C5, C7, C8)<sup>1)</sup>, block material (code 41, 43, 44)<sup>2)</sup>**

Pipe connection for aseptic pipe union				EN 10357 series A (formerly DIN 11850 series 2)/DIN 11866 series A	ISO 1127/EN 10357 series C/ DIN 11866 series B	ASME BPE/ DIN 11866 series C			
Pipe connection code				17	60	59			
Aseptic pipe union				DIN 11864-1					
Connection code				C1, C2		C4, C5		C7, C8	
MG	DN	NPS	H1	ød1	R	ød1	R	ød1	R
8	8	1/4"	8.5	-	-	10.3	Rd 28 × 1/8	-	-
	10	3/8"	8.5	10.0	Rd 28 × 1/8	-	-	-	-
	15	1/2"	8.5	-	-	-	-	9.4	Rd 28 × 1/8
10	10	3/8"	12.5	10.0	Rd 28 × 1/8	10.3	Rd 28 × 1/8	-	-
	15	1/2"	12.5	16.0	Rd 34 × 1/8	14.0	Rd 34 × 1/8	9.4	Rd 28 × 1/8
	20	3/4"	12.5	-	-	-	-	15.75	Rd 34 × 1/8
25	15	1/2"	19.0	16.0	Rd 34 × 1/8	14.0	Rd 34 × 1/8	-	-
	20	3/4"	19.0	20.0	Rd 44 × 1/6	18.1	Rd 44 × 1/6	15.75	Rd 34 × 1/8
	25	1"	19.0	26.0	Rd 52 × 1/6	23.7	Rd 52 × 1/6	22.1	Rd 52 × 1/6
40	32	1 1/4"	26.0	32.0	Rd 58 × 1/6	29.7	Rd 58 × 1/6	-	-
	40	1 1/2"	26.0	38.0	Rd 65 × 1/6	38.4	Rd 65 × 1/6	34.8	Rd 65 × 1/6
50	50	2"	32.0	50.0	Rd 78 × 1/6	44.3	Rd 78 × 1/6	47.5	Rd 78 × 1/6
	65	2 1/2"	32.0	-	-	-	-	60.2	Rd 95 × 1/6
80	65	2 1/2"	50.0	66.0	Rd 95 × 1/6	56.3	Rd 95 × 1/6	60.2	Rd 95 × 1/6
	80	3"	50.0	81.0	Rd 110 × 1/4	72.1	Rd 110 × 1/4	72.9	Rd 110 × 1/4
100	100	4"	70.0	100.0	Rd 130 × 1/4	84.3	Rd 130 × 1/4	97.38	Rd 130 × 1/4

Dimensions in mm

MG = diaphragm size

**1) Connection type, spigot 1**

Code C1: Aseptic union DIN 11864-GS, for pipe DIN 11866 series A and EN 10357 series A

Code C2: Aseptic union DIN 11864-BS, for pipe DIN 11866 series A and EN 10357 series A

Code C4: Aseptic union DIN 11864-GS, for pipe DIN 11866 series B and EN ISO 1127

Code C7: Aseptic pipe union DIN 11864-GS for pipe DIN 11866 series C and ASME BPE

Code C8: Aseptic union DIN 11864-BS for pipe DIN 11866 series C and ASME BPE

**2) Valve body material**

Code 41: 1.4435 (316L), block material

Code 43: 1.4435 (BN2), block material, Δ Fe < 0.5%

Code 44: 1.4539, block material

**M600 Selection table**

M600  
Selection table

Name	Flow diagram	3D view	Sectional view
M600 03-01.A			
M600 03-01.ER			
M600 03-01.FR			
M600 03-01.GR			
M600 03-01.T3			
M600 03-02.A			

# M600 Selection table

Name	Flow diagram	3D view	Sectional view
M600 03-02.B			
M600 03-02.C			
M600 03-02.E1			
M600 03-02.SR			

# M600 Selection table

Name	Flow diagram	3D view	Sectional view
M600 03-02.TO			
M600 03-02.TU			
M600 03-02.WL			
M600 03-02.WR			

# M600 Selection table

Name	Flow diagram	3D view	Sectional view
M600 03-03.N1			
M600 03-03.N2			
M600 03-03.N3			
M600 03-03.N4			
M600 04-01.A			
M600 04-01.B			

# M600 Selection table

Name	Flow diagram	3D view	Sectional view
M600 04-02.OC			
M600 04-02.P3			
M600 04-02.T			
M600 04-02.U5			

# M600 Selection table

Name	Flow diagram	3D view	Sectional view
M600 04-03.C			
M600 04-03.E			
M600 04-03.F			
M600 04-03.JR			



# M600 Selection table

Name	Flow diagram	3D view	Sectional view
M600 04-03.K6			
M600 04-03.KR			
M600 04-03.M1			
M600 04-03.M2			
M600 04-03.M3			

# M600 Selection table

Name	Flow diagram	3D view	Sectional view
M600 04-03.M4			
M600 04-04.N1			
M600 04-04.N2			
M600 04-05.R			

# M600 Selection table

Name	Flow diagram	3D view	Sectional view
M600 05-03.PA			
M600 05-04.C			
M600 06-04.T			

## **Electrical position indicators**



### **GEMÜ 1205**

#### **Electrical position indicator ATEX**

The GEMÜ 1205 electrical position indicator has electro-mechanical microswitches in a flameproof enclosure. Two valve positions, open and/or closed can be remotely indicated.



### **GEMÜ 1201 / 1211 / 1214**

#### **Electrical position indicators**

GEMÜ 1201/1211/1214 electrical position indicators are suitable for mounting on pneumatically operated linear valves. The position of the valve spindle is reliably detected and reported to the plant control system via microswitches or inductive proximity switches, using play-free and non-positive mounting. The product has been designed specially for valves with a stroke of 2 to 70 mm.



### **GEMÜ 1215**

#### **Electrical position indicator**

The GEMÜ 1215 electrical position indicator is suitable for mounting to pneumatically operated linear actuators. The position (end position open) of the valve spindle is reliably detected and fed back electronically by the operating bush with a microswitch.



### **GEMÜ 1230 / 1231 / 1232**

#### **Electrical position indicators**

The GEMÜ 1230/1231/1232 electrical position indicators are suitable for mounting on pneumatically operated linear valves. The position of the valve spindle is reliably detected and reported to the plant control system via microswitches or inductive proximity switches, using play-free and non-positive mounting. The product has been designed specially for valves with a stroke of 2 to 20 mm.



### **GEMÜ 1234**

#### **Electrical position indicator**

The GEMÜ 1234 electrical position indicator for linear actuators has a microprocessor controlled intelligent position sensor with an integrated analogue travel sensor system. Optical position indication is made by LEDs.



### **GEMÜ 1235/1236**

#### **Electrical position indicator**

GEMÜ 1235 / 1236 electrical position indicators are suitable for mounting on pneumatically operated actuators. The position of the valve spindle is reliably electronically detected and evaluated using play-free and non-positive mounting. Intelligent microprocessor controlled functions facilitate commissioning and support during operation. The current position of the valve is displayed via high-visibility LEDs and fed back via electrical signals.

**GEMÜ 1242****Electrical position indicator**

The GEMÜ 1242 electrical position indicator is suitable for installation on pneumatically operated linear actuators. The position of the valve spindle is reliably electronically detected and evaluated using play-free and non-positive mounting. Intelligent microprocessor-controlled functions facilitate commissioning and support during operation. The current position of the valve is displayed via high-visibility LEDs and fed back via electrical signals. The GEMÜ 1242 has been specially designed for valves with a stroke of 2 to 46 mm.

## Positioner and process controller

**GEMÜ 1436 cPos****Intelligent positioner and integrated process controller**

The GEMÜ 1436 cPos digital electro-pneumatic positioner has an optional integrated process controller to control pneumatically operated process valves with single acting or double acting linear or quarter turn actuators. When using the optional process controller, the signals from the sensors (e.g. flow, level, pressure, temperature) are detected and the media adjusted according to the specified set value. GEMÜ 1436 cPos has a robust aluminium housing with protected operating keys and an LCD display which allows the product to be individually adapted to complex control tasks. With additional equipment, the positioner can be used directly in fieldbus environments.

**GEMÜ 1441 cPos-X****Intelligent electro-pneumatic positioner**

The GEMÜ 1441 cPos-X is an intelligent, digital electro-pneumatic positioner in 2-wire technology used to control pneumatically operated process valves. It can be combined with single acting or double acting linear actuators or quarter turn actuators. This means that it can be used, among other things, for diaphragm, globe and diaphragm globe valves as well as for ball valves and butterfly valves, for instance. The positioner has a robust housing with a covered LCD display for status information. The positioner can be operated remotely using a mobile device in order to configure settings and to view detailed information.

## Accessories

**GEMÜ 2023****Pneumatic fitting**

We offer various pneumatic fittings under the GEMÜ 2023 type. Various connection sizes are available with female thread, male thread, connector, plug-in nipple or quick connectors.

**GEMÜ 2022****Throttle valve**

The GEMÜ 2022 throttle valves are available as throttle valve, throttle check valve and dual throttle check valve. In pneumatic actuators they are used to regulate the compressed air depending on the function for the supply or exhaust air and can be set independently of each other in the case of dual throttle check valves.



**GEMÜ 1107**

**Tool to keep actuator open**

The GEMÜ 1107 tool to keep the actuator open holds pneumatically operated diaphragm valves in the open position even if no control medium is applied to them. You can choose to secure it using a padlock. The GEMÜ 1107 tool to keep the actuator open can, for example, be used for autoclaving.



**GEMÜ 1109**

**Tool to keep actuator closed**

The GEMÜ 1109 tool to keep the actuator closed holds diaphragm valves in the closed position, even if a control medium is applied to them. You can choose to secure this using a padlock.



**GEMÜ 1002**

**Handwheel**

GEMÜ 1002 is a manual override for pneumatic linear actuators for diaphragm, globe and control valves. An integral optical position indicator is standard. The manual override cannot be used as a closing stroke limiter.



**GEMÜ 1450**

**NAMUR mounting bracket**

GEMÜ 1450 is a NAMUR mounting bracket for pneumatically operated diaphragm valves and globe valves. An integrated optical position indicator is standard. The product is available either with or without handwheel as a manual override. It has height adjustable trip cams. The mounting parts are included.



**GEMÜ 1460/1461**

**NAMUR mounting bracket**

GEMÜ 1460 / 1461 is a NAMUR mounting bracket for pneumatically operated diaphragm valves and globe valves. The product is available either with or without handwheel as a manual override. It has height adjustable trip cams. The mounting parts are included.



**GEMÜ 1101 / 1104 / 1110 / 1114 / 1151 / 1152 / 1161**

**Opening stroke limiter**

Pneumatic linear actuators of GEMÜ butterfly valves, ball valves, diaphragm valves and globe valves are not fully opened by opening stroke limiters. This limits the maximum flow through a valve. The opening stroke limiter is available either with handwheel, transparent cap, position indicator or manual override.

**GEMÜ 1108****Closing stroke limiter**

GEMÜ 1108 is a mechanical closing stroke limiter with integrated optical position indicator and transparent cap for pneumatically operated linear actuators. It is used when Open/Close valves should not be closed fully and a minimal flow should be ensured.

**GEMÜ 1106****Opening stroke and closing stroke limiter**

The GEMÜ 1106 opening stroke and closing stroke limiter limits both the opening and closing of a valve, thereby specifying a minimum and maximum flow rate. It is available with or without a stainless steel or plastic protective cap.

**GEMÜ 1118****Seal adjuster**

The GEMÜ 1118 seal adjuster is a closing stroke limiter that can only be adjusted within the lower stroke range. In these cases, it reduces the compression of the diaphragm on the sealing weir, thereby increasing the diaphragm service life.

**GEMÜ 1116****Opening stroke limiter with seal adjuster**

The GEMÜ 1116 model combines an opening stroke limiter with a diaphragm protection function. This allows the opening stroke to be set as required. The closing stroke can only be adjusted within the lower stroke range.

**GEMÜ 1200****Proximity switch**

The GEMÜ 1200 proximity switch is a sensor that detects the valve position contactlessly and displays it via an electrical signal.

**GEMÜ 1210****Mount for proximity switches**

The GEMÜ 1210 is an enclosed proximity switch mount in stainless steel for two proximity switches M8 x 1 or M12 x 1 (only suitable for GEMÜ 550 and GEMÜ 650). An integral optical position indicator is standard. The basic version does not contain any proximity switches.



**GEMÜ 1216**

**Mounting bracket for proximity switches**

GEMÜ 1216 is an open proximity switch mount for two proximity switches M8 x 1 for pneumatically operated linear actuators. It has two adjustable trip cams and can be ordered either with or without stroke limiter. The switching interval is dependent on the proximity switches used. The basic version does not contain any proximity switches.



**GEMÜ 1300**

**Optical position indicator with transparent cap**

GEMÜ 1300 is a plastic optical position indicator with transparent cap for pneumatically operated globe and diaphragm valves.



**GEMÜ 1310**

**Optical position indicator with transparent cap**

GEMÜ 1310 is a plastic optical position indicator with transparent cap for pneumatically operated globe and diaphragm valves. It has an indicator spindle with metal core. There is also the option to connect two mounting brackets for proximity switches.



**GEMÜ 4232**

**Travel sensor for linear actuators**

The GEMÜ 4232 travel sensor is intended for the attachment to valves with linear actuators and is used to determine the valve position. It is used as a travel sensor for the GEMÜ 1434  $\mu$ Pos, GEMÜ 1435 ePos, GEMÜ 1436 cPos and GEMÜ 1441 cPos-X intelligent positioners, which can be connected using either the open cable ends or an M12 cable connector (depending on the design and/or selection of the positioner).



# Specification GEMÜ P600M

Reference no.



## Specification | GEMÜ P600M M-block stainless steel diaphragm valve

Operating pressure: \_\_\_\_\_ bar  
 Medium temperature: \_\_\_\_\_ °C  
 Valve block material:  
 1.4435  
 1.4435 BN 2 ( $\Delta Fe < 0.5\%$ )  
 1.4539  
 Other \_\_\_\_\_  
 Shut-off diaphragm material:  
 EPDM Code \_\_\_\_\_  
 PTFE Code \_\_\_\_\_  
 Other \_\_\_\_\_  
 Surface finish of valve block:  
 1502 (Ra)  $\leq 0.8 \mu m$   
 1503 (Ra)  $\leq 0.8 \mu m$  electropolished  
 1507 (Ra)  $\leq 0.6 \mu m$   
 1508 (Ra)  $\leq 0.6 \mu m$  electropolished  
 1536 (Ra)  $\leq 0.4 \mu m$   
 1537 (Ra)  $\leq 0.4 \mu m$  electropolished  
 1527 (Ra)  $\leq 0.25 \mu m$   
 1516 (Ra)  $\leq 0.25 \mu m$  electropolished  
 Other \_\_\_\_\_

Quantity:

Is it repeat business for a certain item?

no yes **If "yes", please click here**

**Example:**

Please draw functional diagram.  
**Important:** Please ensure that the table and functional diagram correspond.

Please specify the design (e.g. M600 06-04.P1) if possible:

Spigot/Valve seat: S1, S2, etc./V1, V2, etc. Flow direction (medium): →  
 Preferred installation pos.: Horizontal/Vertical Draining direction: →  
 Valve seat:

Spigot no.	Pipe connection				Actuator			Other
	DN	Code	ød(a)[mm]	s [mm]	Actuator type	Control function	Actuator size	Comment/accessories
S1					V1			
S2					V2			
S3					V3			
S4					V4			
S5					V5			
S6					V6			
S7					V7			
S8					V8			
S9					V9			
S10					V10			
S11					V11			
S12					V12			

The technical details of each enquiry must be checked by GEMÜ.

<p><b>Contact (GEMÜ):</b> _____</p> <p><b>Customer:</b> _____</p> <p>Department: _____</p> <p>Address: _____</p> <p>Phone: _____ E-mail: _____</p>	<p>Please do not write here!</p> <p>K-No.: _____</p> <p>P600: _____</p> <p>M600: _____</p> <p>X: _____</p>
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GEMÜ Gebr. Müller Apparatebau GmbH & Co. KG · Fritz-Müller-Str. 6-8 · 74653 Ingelfingen · Germany · Phone +49(0)7940/123-0  
 info@gemu.de · www.gemu-group.com



GEMÜ Gebr. Müller Apparatebau GmbH & Co. KG  
Fritz-Müller-Straße 6-8, 74653 Ingelfingen-Criesbach, Germany  
Phone +49 (0) 7940 1230 · info@gemue.de  
www.gemu-group.com