

Diaphragm Valve, Metal

Construction

The GEMÜ 650 piston actuated 2/2-way diaphragm valve is designed for use in sterile areas of application. All metallic actuator components are made of stainless steel. The compression springs of diaphragm sizes 80 and 100 are made of epoxy coated spring steel. Normally closed, Normally open and Double acting control functions are available. The valve has an optical position indicator as standard.

Features

- Suitable for inert and corrosive* liquid and gaseous media
- Valve body and diaphragm available in various materials and designs
- Compact design (ideal when space is at a premium)
- Various connections available
- CIP/SIP and sterilizing capabilities
- Autoclave capability, dependent on version
- Surface finishes down to $Ra \leq 0.25 \mu m$, electropolished
- Versions according to ATEX on request

Advantages

- Hermetic separation between medium and actuator
- Optional flow direction
- Installation for an optimized draining is possible
- Control air connectors positioned in-line with piping (option: 90° offset)
- Expelled air from spring chamber can optionally be piped to other locations
- Extensive range of accessories, easily retrofitted

* see information on working medium on page 2

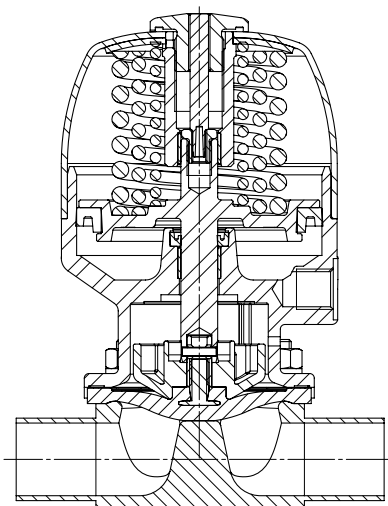


Actuator version "T"



Actuator version "D"

Sectional view



DN 100 „T“

Technical data

Working medium

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

The valve will seal in both flow directions up to full operating pressure (gauge pressure).

Temperatures

Medium temperature -10 to 100 °C

Sterilisation temperature ⁽¹⁾

| | |
|---------------------|--|
| EPDM (code 13/3A) | max. 150 °C ⁽²⁾ , max. 60 min per cycle |
| EPDM (code 17) | max. 150 °C ⁽²⁾ , max. 180 min per cycle |
| PTFE/EPDM (code 54) | max. 150 °C ⁽²⁾ , no time limit per cycle |
| PTFE/EPDM (code 5M) | max. 150 °C ⁽²⁾ , no time limit per cycle |

¹ The sterilisation temperature is valid for steam (saturated steam) or superheated water.

² If the sterilisation 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.

This also applies to PTFE diaphragms exposed to high temperature fluctuations.

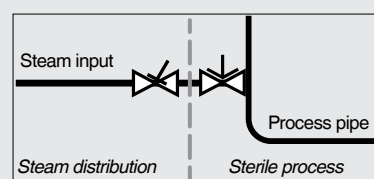
PTFE diaphragms can also be used as moisture barriers; however, this will reduce their service life.

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.



Ambient temperature

0 ... 60 °C

Control medium

Inert gases

Max. permissible temperature of control medium

60 °C

Filling volume

| Diaphragm size | DN | Actuator size | Actuator version | Spring set | Control function 1 | Control function 2 |
|----------------|----------|---------------|------------------|------------|----------------------|----------------------|
| 8 | 4 to 15 | 0 | T/R | 1 | 0.01 dm ³ | 0.01 dm ³ |
| | | | T/R | A | 0.02 dm ³ | 0.01 dm ³ |
| 10 | 10 to 20 | 1 | T/R/D/B | 1 | 0.03 dm ³ | 0.07 dm ³ |
| 25 | 15 to 25 | 2 | T/R/D/B | 1 | 0.13 dm ³ | 0.22 dm ³ |
| 40 | 32 to 40 | 3 | T/R/D/B | 1 | 0.23 dm ³ | 0.50 dm ³ |
| | | | T/R | A | 0.50 dm ³ | - |
| 50 | 50 to 65 | 4 | T/R/D/B | 1 | 0.50 dm ³ | 1.20 dm ³ |
| 80 | 65 to 80 | 5 | T/R | 1 | 2.68 dm ³ | 3.20 dm ³ |
| | | | T/R | A | 2.13 dm ³ | - |
| 100 | 100 | 6 | T/R | 1 | 2.78 dm ³ | 3.40 dm ³ |
| | | | T/R | A | 2.15 dm ³ | - |

C.f. 3 = for filling volume in open position see c.f. 1;

for filling volume in closed position see c.f. 2

Technical data

Kv values [m³/h]

| Pipe standard | | DIN | EN 10357 series B (formerly DIN 11850 series 1) | EN 10357 series A (formerly DIN 11850 series 2) / DIN 11866 series A | DIN 11850 Series 3 | SMS 3008 | ASME BPE / DIN 11866 series C | ISO 1127 / EN 10357 series C / DIN 11866 series B | DIN ISO 228 |
|-----------------|-----|------|---|--|--------------------|----------|-------------------------------|---|-------------|
| Connection code | | 0 | 16 | 17 | 18 | 37 | 59 | 60 | 1 |
| MG | DN | | | | | | | | |
| 8 | 4 | 0.5 | - | - | - | - | - | - | - |
| | 6 | - | - | 1.1 | - | - | - | 1.2 | - |
| | 8 | - | - | 1.3 | - | - | 0.6 | 2.2 | - |
| | 10 | - | 2.1 | 2.1 | 2.1 | - | 1.3 | - | - |
| | 15 | - | - | - | - | - | 2.0 | - | - |
| 10 | 10 | - | 2.4 | 2.4 | 2.4 | - | 2.2 | 3.3 | - |
| | 12 | - | - | - | - | - | - | - | 3.2 |
| | 15 | 3.3 | 3.8 | 3.8 | 3.8 | - | 2.2 | 4.0 | 3.4 |
| | 20 | - | - | - | - | - | 3.8 | - | - |
| 25 | 15 | 4.1 | 4.7 | 4.7 | 4.7 | - | - | 7.4 | 6.5 |
| | 20 | 6.3 | 7.0 | 7.0 | 7.0 | - | 4.4 | 13.2 | 10.0 |
| | 25 | 13.9 | 15.0 | 15.0 | 15.0 | 12.6 | 12.2 | 16.2 | 14.0 |
| 40 | 32 | 25.3 | 27.0 | 27.0 | 27.0 | 26.2 | - | 30.0 | 26.0 |
| | 40 | 29.3 | 30.9 | 30.9 | 30.9 | 30.2 | 29.5 | 32.8 | 33.0 |
| 50 | 50 | 46.5 | 48.4 | 48.4 | 48.4 | 51.7 | 50.6 | 55.2 | 60.0 |
| | 65 | - | - | - | - | 62.2 | 61.8 | - | - |
| 80 | 65 | - | - | 77.0 | - | 68.5 | 68.5 | 96.0 | - |
| | 80 | - | - | 111.0 | - | 80.0 | 87.0 | 111.0 | - |
| 100 | 100 | - | - | 194.0 | - | 173.0 | 188.0 | 214.0 | - |

MG = diaphragm size

Kv values determined acc. to DIN EN 60534, inlet pressure 5 bar, Δp 1 bar, stainless steel valve body (forged body) and soft elastomer diaphragm. The Kv values for other product configurations (e.g. other diaphragm or body materials) may differ. In general, all diaphragms are subject to the influences of pressure, temperature, the process and their tightening torques. Therefore the Kv values may exceed the tolerance limits of the standard.

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

Autoclavability

| | |
|-----------------|--|
| Actuator size 0 | Standard version with autoclave capability |
| Actuator size 1 | Standard version with autoclave capability |
| Actuator size 2 | Standard version with autoclave capability |
| Actuator size 3 | with special version |
| Actuator size 4 | with special version |
| Actuator size 5 | not possible |
| Actuator size 6 | not possible |

Technical data

| Operating pressure [bar] | | | | | | | | |
|--------------------------|----------|------------------|--------------------|--------------------|--------------------------|--------------------|-------------|----------------------|
| MG | DN | Control function | Actuator version | EPDM | | PTFE | | |
| | | | | Diaphragm material | All valve body materials | Diaphragm material | Forged body | Investment cast body |
| 8 | 4 to 15 | 1 | 0T1, 0R1 | 3A, 17 | 0 to 8 | 54 | 0 to 6 | 0 to 6 |
| | | | 0TA, 0RA | | 0 to 10 | | 0 to 10 | 0 to 6 |
| | | 2 + 3 | 0T1, 0R1, 0TA, 0RA | | 0 to 10 | | 0 to 10 | 0 to 6 |
| | | | | | | | 0 to 10 | 0 to 6 |
| 10 | 10 to 20 | 1 | 1T1, 1R1 | 13, 17 | 0 to 10 | 54, 5M | 0 to 10 | 0 to 6 |
| | | | 1D1, 1B1 | | 0 to 10 | | 0 to 6 | 0 to 6 |
| | | 2 + 3 | 1T1, 1R1 | | 0 to 10 | | 0 to 10 | 0 to 6 |
| | | | 1D1, 1B1 | | 0 to 10 | | 0 to 10 | 0 to 6 |
| 25 | 15 to 25 | 1 | 2T1, 2R1 | 13, 17 | 0 to 10 | 54, 5M | 0 to 10 | 0 to 6 |
| | | | 2D1, 2B1 | | 0 to 10 | | 0 to 6 | 0 to 6 |
| | | 2 + 3 | 2T1, 2R1 | | 0 to 10 | | 0 to 10 | 0 to 6 |
| | | | 2D1, 2B1 | | 0 to 10 | | 0 to 10 | 0 to 6 |
| 40 | 32 to 40 | 1 | 3T1, 3R1, 3D1, 3B1 | 13, 17 | 0 to 10 | 54, 5M | 0 to 6 | 0 to 6 |
| | | | 3TA, 3RA | | - | | 0 to 10 | 0 to 6 |
| | | 2 + 3 | 3T1, 3R1 | | 0 to 10 | | 0 to 10 | 0 to 6 |
| | | | 3D1, 3B1 | | 0 to 10 | | 0 to 10 | 0 to 6 |
| 50 | 50 to 65 | 1 | 4T1, 4R1 | 13, 17 | 0 to 10 | 54, 5M | 0 to 10 | 0 to 6 |
| | | | 4D1, 4B1 | | 0 to 10 | | 0 to 6 | 0 to 6 |
| | | 2 + 3 | 4T1, 4R1 | | 0 to 10 | | 0 to 10 | 0 to 6 |
| | | | 4D1, 4B1 | | 0 to 10 | | 0 to 10 | 0 to 6 |
| 80 | 65 to 80 | 1 | 5T1, 5R1 | 13, 17 | 0 to 8 | 54, 5M | 0 to 5 | - |
| | | | 5TA, 5RA | | - | | 0 to 10 | - |
| | | 2 + 3 | 5T1, 5R1 | | 0 to 8 | | 0 to 5 | - |
| 100 | 100 | 1 | 6T1, 6R1 | 13, 17 | 0 to 6 | 54, 5M | 0 to 4 | - |
| | | | 6TA, 6RA | | - | | 0 to 10 | - |
| | | 2 + 3 | 6T1, 6R1 | | 0 to 6 | | 0 to 4 | - |

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
 MG = diaphragm size

Technical data

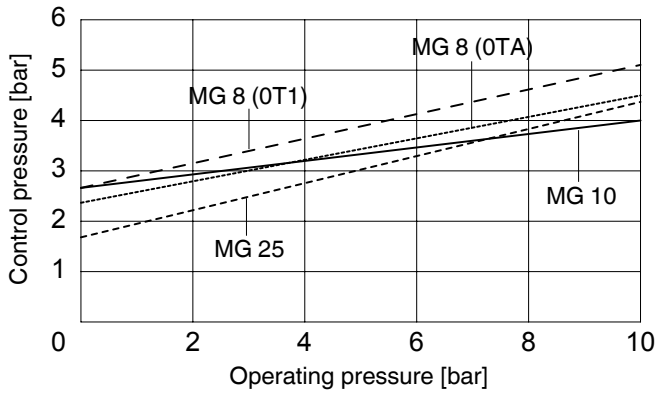
| Control pressure [bar] | | | | |
|------------------------|----------|------------------|--------------------|------------------|
| MG | DN | Control function | Actuator version | Control pressure |
| 8 | 4 to 15 | 1 | 0T1, 0R1 | 5,0 to 7,0 |
| | | | 0TA, 0RA | 3,5 to 7,0 |
| | | 2 + 3 | 0T1, 0R1 | max. 5,5 |
| | | | 0TA, 0RA | max. 4,5 |
| 10 | 10 to 20 | 1 | 1T1, 1R1, 1D1, 1B1 | 4,5 to 7,0 |
| | | 2 + 3 | 1T1, 1R1, 1D1, 1B1 | max. 4,5 |
| 25 | 15 to 25 | 1 | 2T1, 2R1, 2D1, 2B1 | 5,0 to 7,0 |
| | | 2 + 3 | 2T1, 2R1, 2D1, 2B1 | max. 4,5 |
| 40 | 32 to 40 | 1 | 3T1, 3R1, 3D1, 3B1 | 4,5 to 7,0 |
| | | | 3TA, 3RA | 3,5 to 7,0 |
| | | 2 + 3 | 3T1, 3R1, 3D1, 3B1 | max. 5,5 |
| 50 | 50 to 65 | 1 | 4T1, 4R1, 4D1, 4B1 | 4,5 to 7,0 |
| | | 2 + 3 | 4T1, 4R1, 4D1, 4B1 | max. 4,5 |
| 80 | 65 to 80 | 1 | 5T1, 5R1 | 3,5 to 7,0 |
| | | | 5TA, 5RA | 4,5 to 7,0 |
| | | 2 + 3 | 5T1, 5R1 | max. 3,5 |
| 100 | 100 | 1 | 6T1, 6R1 | 3,5 to 7,0 |
| | | | 6TA, 6RA | 5,0 to 7,0 |
| | | 2 + 3 | 6T1, 6R1 | max. 3,5 |

MG = diaphragm size

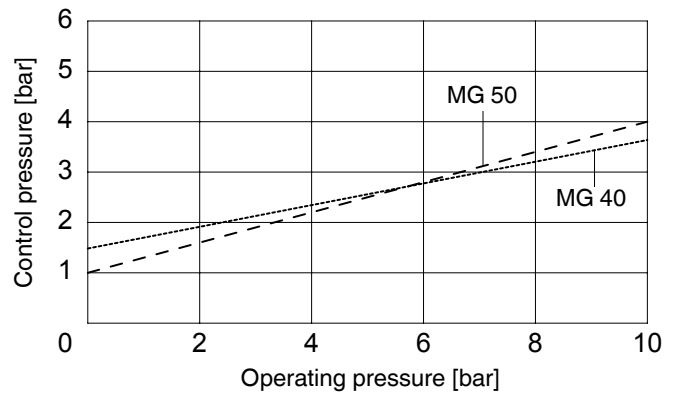
Technical data

Control pressure / operating pressure diagram

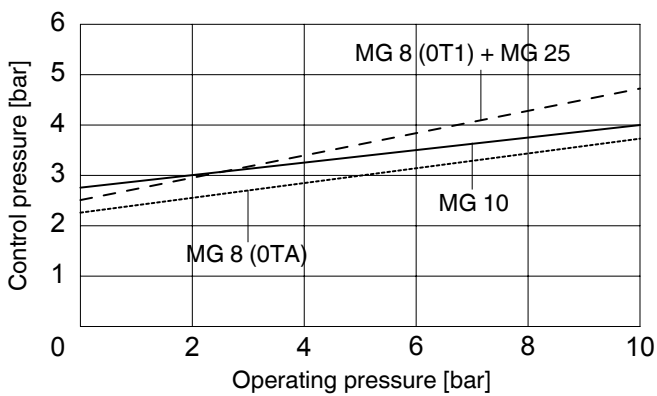
Control function 2 + 3
with elastomer diaphragm
Diaphragm size 8 - 25



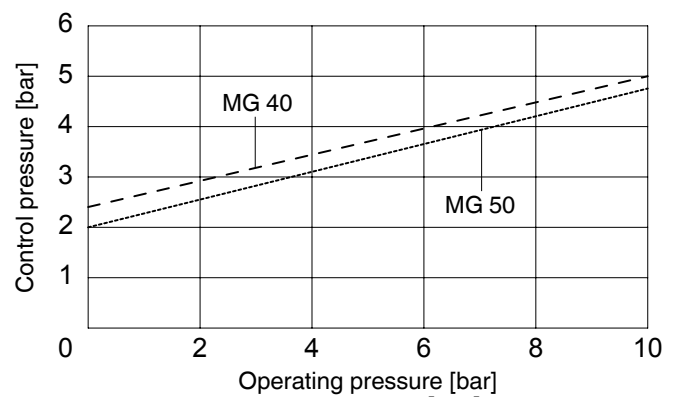
Control function 2 + 3
with elastomer diaphragm
Diaphragm size 40 - 100



Control function 2 + 3
with PTFE diaphragm
Diaphragm size 8 - 25



Control function 2 + 3
with PTFE diaphragm
Diaphragm size 40 - 100



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.

Order data (2/2-way valves)

| Body configuration | Code |
|---|------|
| Tank bottom valve body (actuator version T) | B** |
| 2/2-way body (actuator version D and T) | D |
| T body (actuator version T) | T* |
| * For dimensions see T Valves brochure | |
| ** Dimensions and versions on request | |

| Connection | Code |
|---|------|
| Butt weld spigots | |
| Spigots DIN | 0 |
| Spigots EN 10357 series B (formerly DIN 11850 series 1) | 16 |
| Spigot EN 10357 series A (formerly DIN 11850 series 2) / DIN 11866 series A | 17 |
| Spigots DIN 11850 series 3 | 18 |
| Spigots JIS-G 3447 | 35 |
| Spigots JIS-G 3459 | 36 |
| Spigots SMS 3008 | 37 |
| Spigots BS 4825 Part 1 | 55 |
| Spigot ASME BPE / DIN 11866 series C | 59 |
| Spigot ISO 1127 / EN 10357 series C / DIN 11866 series B | 60 |
| Spigots ANSI/ASME B36.19M Schedule 10s | 63 |
| Spigots ANSI/ASME B36.19M Schedule 40s | 65 |
| Threaded connections | |
| Threaded sockets DIN ISO 228 | 1 |
| Threaded spigots DIN 11851 | 6 |
| One side threaded spigot, other side cone spigot and union nut, DIN 11851 | 62 |
| Aseptic unions on request | |
| Flanges | |
| Flanges EN 1092 / PN16 / form B, length EN 558, series 1, ISO 5752, basic series 1 | 8* |
| Flanges ANSI Class 150 RF, length MSS SP-88 | 38* |
| Flanges ANSI Class 125/150 RF, length EN 558, series 1, ISO 5752, basic series 1 | 39* |
| Clamp connections | |
| Clamps ASME BPE for pipe ASME BPE, length ASME BPE | 80 |
| Clamps DIN 32676 series B for pipe EN ISO 1127, length EN 558, series 7 | 82 |
| Clamps ASME BPE for pipe ASME BPE, length EN 558, series 7 | 88 |
| Clamps DIN 32676 series A for pipe DIN 11850, length EN 558, series 7 | 8A |
| Clamps SMS 3017 for pipe SMS 3008, length EN 558, series 7 | 8E |
| Aseptic clamps on request | |
| * Connection code 8, 38, 39 only possible in conjunction with actuator version code B / R | |
| For overview of available valve bodies see page 15/16 | |

| Valve body material | Code |
|---|------|
| 1.4435, investment casting | C3 |
| 1.4408, investment casting | 37 |
| 1.4408, PFA lined | 39 |
| 1.4435 (316L), forged body | 40 |
| 1.4435 (BN2), forged body $\Delta Fe < 0.5\%$ | 42 |
| 1.4539, forged body | F4 |

| Diaphragm material | Code |
|---|--------|
| EPDM | 13 3A* |
| EPDM | 17 |
| EPDM | 19 |
| EPDM | 36 |
| PTFE/EPDM, one-piece | 54* |
| PTFE/EPDM, two-piece | 5M |
| * for diaphragm size 8 | |
| Material complies with FDA requirements | |

| Control function | Code |
|--|------|
| Normally closed (NC) | 1 |
| Normally open (NO) | 2 |
| Double acting (DA) (with opening spring) | 3 |

| Actuator size | Code |
|--------------------------------------|------|
| Actuator size 0 (diaphragm size 8) | 0 |
| Actuator size 1 (diaphragm size 10) | 1 |
| Actuator size 2 (diaphragm size 25) | 2 |
| Actuator size 3 (diaphragm size 40) | 3 |
| Actuator size 4 (diaphragm size 50) | 4 |
| Actuator size 5 (diaphragm size 80) | 5 |
| Actuator size 6 (diaphragm size 100) | 6 |

| Actuator version | Code |
|---|------|
| Only for body configuration D (diaphragm size 10 - 50) | D |
| For body config. D (diaphragm size 10 - 50) Control air connector 90° offset to flow direction | B |
| For body config. B, D, M and T (diaphragm size 8 - 100) | T |
| For body config. B, D, M and T (diaphragm size 8 - 100) Control air connector 90° offset to flow direction | R |

| Spring set | Code |
|--|------|
| Standard | 1 |
| For higher operating pressure (diaphragm size 8) | A |

Order data (2/2-way valves)

Internal surface finishes for forged and block material bodies ¹

| Readings for Process Contact Surfaces | Mechanically polished ² | | Electropolished | |
|---------------------------------------|------------------------------------|------|-----------------------------|------|
| | Hygienic class DIN 11866 | Code | Hygienic class DIN 11866 | Code |
| Ra ≤ 0.80 µm | H3 | 1502 | HE3 | 1503 |
| Ra ≤ 0.60 µm | - | 1507 | - | 1508 |
| Ra ≤ 0.40 µm | H4 | 1536 | HE4 | 1537 |
| Ra ≤ 0.25 µm ³ | H5 | 1527 | HE5 | 1516 |

| Readings for Process Contact Surfaces acc. to ASME BPE 2016 ⁴ | Mechanically polished ² | | Electropolished | |
|--|------------------------------------|------|------------------------------------|------|
| | ASME BPE Surface Designation | Code | ASME BPE Surface Designation | Code |
| Ra Max. = 0.76 µm (30 µinch) | SF3 | SF3 | - | - |
| Ra Max. = 0.64 µm (25 µinch) | SF2 | SF2 | SF6 | SF6 |
| Ra Max. = 0.51 µm (20 µinch) | SF1 | SF1 | SF5 | SF5 |
| Ra Max. = 0.38 µm (15 µinch) | - | - | SF4 | SF4 |

Internal surface finishes for investment cast bodies

| Readings for Process Contact Surfaces | Mechanically polished ² | |
|---------------------------------------|------------------------------------|------|
| | Hygienic class DIN 11866 | Code |
| Ra ≤ 6.30 µm | - | 1500 |
| Ra ≤ 0.80 µm | H3 | 1502 |
| Ra ≤ 0.60 µm ⁵ | - | 1507 |

¹ Surface finishes of customized valve bodies may be limited in special cases.

² Or any other finishing method that meets the Ra value (acc. to ASME BPE).

³ The smallest possible Ra finish for pipe connections with an internal pipe diameter < 6 mm is 0.38 µm.

⁴ When using these surfaces, the bodies are marked according to the specifications of ASME BPE.

The surfaces are only available for valve bodies which are made of materials (e.g. GEMÜ material codes 40, 41, F4, 44) and use connections (e.g. GEMÜ connection codes 59, 80, 88) according to ASME BPE.

⁵ Not possible for GEMÜ connection code 59, DN 8 and GEMÜ connection code 0, DN 4.

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

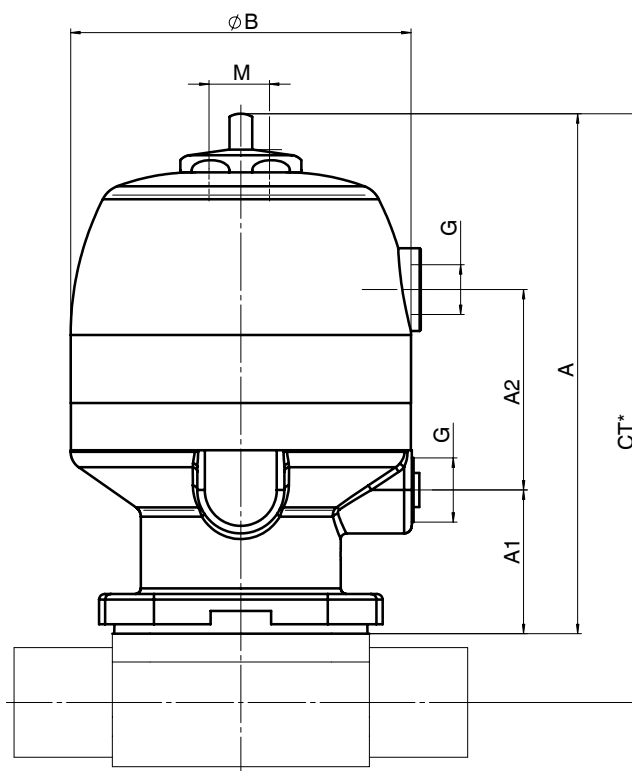
| Special function | Code |
|----------------------|------|
| 3-A compliant design | M |

| Order example | 650 | 50 | D | 60 | 40 | 54 | 1 | 4 | T | 1 | 1503 | M |
|----------------------------|-----|----|---|----|----|----|---|---|---|---|------|---|
| Type | 650 | | | | | | | | | | | |
| Nominal size | | 50 | | | | | | | | | | |
| Body configuration (code) | | | D | | | | | | | | | |
| Connection (code) | | | | 60 | | | | | | | | |
| Valve body material (code) | | | | | 40 | | | | | | | |
| Diaphragm material (code) | | | | | | 54 | | | | | | |
| Control function (code) | | | | | | | 1 | | | | | |
| Actuator size (code) | | | | | | | | 4 | | | | |
| Actuator version (code) | | | | | | | | | T | | | |
| Spring set (code) | | | | | | | | | | 1 | | |
| Surface finish (code) | | | | | | | | | | | 1503 | |
| Special function (Code) | | | | | | | | | | | | M |

Dimensions [mm]

Actuator dimensions

| Actuator size | Diaphragm size | A | A1 | A2 | ø B | G | M | Weight [kg] | |
|---------------|----------------|-------|-----|------|-----|-------|---------|-------------|-----------|
| | | | | | | | | Version D | Version T |
| 0T1 | 8 | 80.5 | 28 | 37.8 | 42 | G 1/8 | M12x1 | - | 0.5 |
| 0TA | 8 | 89.5 | 28 | 39.1 | 47 | G 1/8 | M12x1 | - | 0.5 |
| 1T1 | 10 | 116.0 | 37 | 42.5 | 61 | G 1/4 | M16x1 | 1.1 | 0.9 |
| 2T1 | 25 | 137.5 | 38 | 53.0 | 90 | G 1/4 | M16x1 | 2.5 | 1.9 |
| 3T1 | 40 | 173.0 | 53 | 56.5 | 114 | G 1/4 | M16x1 | 5.0 | 3.0 |
| 3TA | 40 | 223.0 | 52 | - | 144 | G 1/4 | M16x1 | - | 7.3 |
| 4T1 | 50 | 223.0 | 52 | 70.5 | 144 | G 1/4 | M16x1 | 9.5 | 7.7 |
| 5T1 | 80 | 283.0 | 78 | - | 240 | G 1/4 | M26x1.5 | - | 18.5 |
| 5TA | 80 | 297.0 | 80 | - | 240 | G 1/4 | M26x1.5 | - | 23.7 |
| 6T1 | 100 | 298.0 | 87 | - | 240 | G 1/4 | M26x1.5 | - | 20.0 |
| 6TA | 100 | 355.0 | 133 | - | 240 | G 1/4 | M26x1.5 | - | 28.0 |



* CT = A + H1 (see body dimensions)

Body dimensions [mm]

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

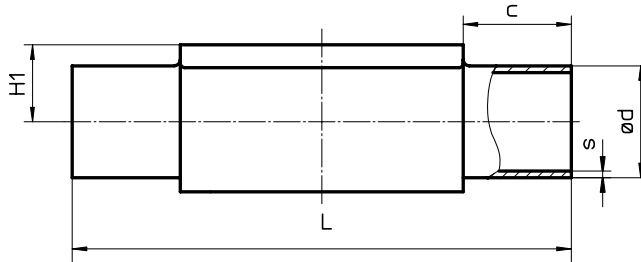
| Pipe standard | | | | | | | DIN | | EN 10357 series B (formerly DIN 11850 series 1) | | EN 10357 series A (formerly DIN 11850 series 2) / DIN 11866 series A | | DIN 11850 Series 3 | | Weight [kg] |
|-----------------|-----|--------|-----|----|------|------|-----|-----|---|-----|--|-----|--------------------|-----|-------------|
| Connection code | | | | | | | 0 | | 16 | | 17 | | 18 | | |
| MG | DN | NPS | L | c | H1* | H1** | ød | s | ød | s | ød | s | ød | s | |
| 8 | 4 | - | 72 | 20 | 8.5 | | 6 | 1.0 | - | - | - | - | - | - | 0.09 |
| | 6 | - | 72 | 20 | 8.5 | | - | - | - | - | 8 | 1.0 | - | - | 0.09 |
| | 8 | 1/4" | 72 | 20 | 8.5 | | - | - | - | - | 10 | 1.0 | - | - | 0.09 |
| | 10 | 3/8" | 72 | 20 | 8.5 | | - | - | 12 | 1.0 | 13 | 1.5 | 14 | 2.0 | 0.09 |
| 10 | 10 | 3/8" | 108 | 25 | 12.5 | | - | - | 12 | 1.0 | 13 | 1.5 | 14 | 2.0 | 0.30 |
| | 15 | 1/2" | 108 | 25 | 12.5 | | 18 | 1.5 | 18 | 1.0 | 19 | 1.5 | 20 | 2.0 | 0.30 |
| 25 | 15 | 1/2" | 120 | 25 | 13.0 | 19.0 | 18 | 1.5 | 18 | 1.0 | 19 | 1.5 | 20 | 2.0 | 0.62 |
| | 20 | 3/4" | 120 | 25 | 16.0 | 19.0 | 22 | 1.5 | 22 | 1.0 | 23 | 1.5 | 24 | 2.0 | 0.58 |
| | 25 | 1" | 120 | 25 | 19.0 | 19.0 | 28 | 1.5 | 28 | 1.0 | 29 | 1.5 | 30 | 2.0 | 0.55 |
| 40 | 32 | 1 1/4" | 153 | 25 | 24.0 | 26.0 | 34 | 1.5 | 34 | 1.0 | 35 | 1.5 | 36 | 2.0 | 1.45 |
| | 40 | 1 1/2" | 153 | 25 | 26.0 | 26.0 | 40 | 1.5 | 40 | 1.0 | 41 | 1.5 | 42 | 2.0 | 1.32 |
| 50 | 50 | 2" | 173 | 30 | 32.0 | 32.0 | 52 | 1.5 | 52 | 1.0 | 53 | 1.5 | 54 | 2.0 | 2.25 |
| 80 | 65 | 2 1/2" | 216 | 30 | - | 62.0 | - | - | - | - | 70 | 2.0 | - | - | 8.60 |
| | 80 | 3" | 254 | 30 | - | 62.0 | - | - | - | - | 85 | 2.0 | - | - | 8.00 |
| 100 | 100 | 4" | 305 | 30 | - | 76.0 | - | - | - | - | 104 | 2.0 | - | - | 24.10 |

* only for investment cast design

** only for forged design

MG = diaphragm size

For materials see overview on page 17



Body dimensions [mm]

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

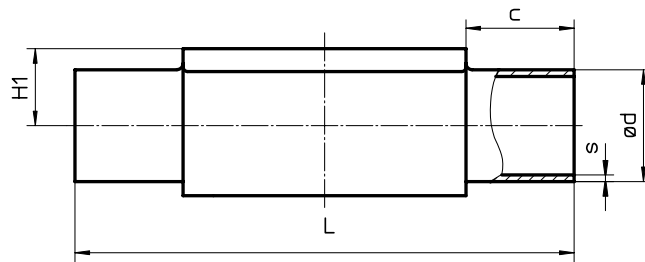
| Pipe standard | | | | | | | ISO 1127 / EN 10357 series C / DIN 11866 series B | | Weight [kg] |
|-----------------|-----|--------|-----|----|------|------|---|-----|-------------|
| Connection code | | | | | | | 60 | | |
| MG | DN | NPS | L | c | H1* | H1** | ød | s | |
| 8 | 6 | - | 72 | 20 | - | 8.5 | 10.2 | 1.6 | 0.09 |
| | 8 | 1/4" | 72 | 20 | 8.5 | 8.5 | 13.5 | 1.6 | 0.09 |
| | 10 | 3/8" | 72 | 20 | - | 8.5 | - | - | 0.09 |
| 10 | 10 | 3/8" | 108 | 25 | 12.5 | 12.5 | 17.2 | 1.6 | 0.30 |
| | 15 | 1/2" | 108 | 25 | 12.5 | 12.5 | 21.3 | 1.6 | 0.30 |
| 25 | 15 | 1/2" | 120 | 25 | 13.0 | 19.0 | 21.3 | 1.6 | 0.62 |
| | 20 | 3/4" | 120 | 25 | 16.0 | 19.0 | 26.9 | 1.6 | 0.58 |
| | 25 | 1" | 120 | 25 | 19.0 | 19.0 | 33.7 | 2.0 | 0.55 |
| 40 | 32 | 1 1/4" | 153 | 25 | 24.0 | 26.0 | 42.4 | 2.0 | 1.45 |
| | 40 | 1 1/2" | 153 | 25 | 26.0 | 26.0 | 48.3 | 2.0 | 1.32 |
| 50 | 50 | 2" | 173 | 30 | 32.0 | 32.0 | 60.3 | 2.0 | 2.25 |
| 80 | 65 | 2 1/2" | 216 | 30 | - | 62.0 | 76.1 | 2.0 | 8.60 |
| | 80 | 3" | 254 | 30 | - | 62.0 | 88.9 | 2.3 | 8.00 |
| 100 | 100 | 4" | 305 | 30 | - | 76.0 | 114.3 | 2.3 | 24.10 |

* only for investment cast design

** only for forged design

MG = diaphragm size

For materials see overview on page 17



Body dimensions [mm]

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

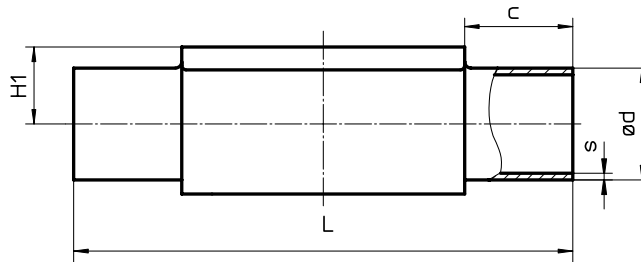
| Pipe standard | | | | | | | JIS-G 3447 | JIS-G 3459 | SMS 3008 | Weight [kg] | | | |
|-----------------|-----|--------|-----|----|------|------|---------------|---------------|-------------|----------------|-------|-----|-------|
| Connection code | | | | | | | 35 | 36 | 37 | | | | |
| MG | DN | NPS | L | c | H1* | H1** | ød | s | ød | | s | ød | s |
| 8 | 6 | - | 72 | 20 | - | 8.5 | - | - | 10.5 | 1.20 | - | - | 0.09 |
| | 8 | 1/4" | 72 | 20 | - | 8.5 | - | - | 13.8 | 1.65 | - | - | 0.09 |
| 10 | 10 | 3/8" | 108 | 25 | - | 12.5 | - | - | 17.3 | 1.65 | - | - | 0.30 |
| | 15 | 1/2" | 108 | 25 | - | 12.5 | - | - | 21.7 | 2.10 | - | - | 0.30 |
| 25 | 15 | 1/2" | 120 | 25 | - | 19.0 | - | - | 21.7 | 2.10 | - | - | 0.62 |
| | 20 | 3/4" | 120 | 25 | - | 19.0 | - | - | 27.2 | 2.10 | - | - | 0.58 |
| | 25 | 1" | 120 | 25 | 19.0 | 19.0 | 25.4 | 1.2 | 34.0 | 2.80 | 25.0 | 1.2 | 0.55 |
| 40 | 32 | 1 1/4" | 153 | 25 | - | 26.0 | 31.8 | 1.2 | 42.7 | 2.80 | 33.7 | 1.2 | 1.45 |
| | 40 | 1 1/2" | 153 | 25 | 26.0 | 26.0 | 38.1 | 1.2 | 48.6 | 2.80 | 38.0 | 1.2 | 1.32 |
| 50 | 50 | 2" | 173 | 30 | 32.0 | 32.0 | 50.8 | 1.5 | 60.5 | 2.80 | 51.0 | 1.2 | 2.25 |
| | 65 | 2 1/2" | 173 | 30 | - | 34.0 | 63.5 | 2.0 | - | - | 63.5 | 1.6 | 2.20 |
| 80 | 65 | 2 1/2" | 216 | 30 | - | 62.0 | 63.5 | 2.0 | 76.3 | 3.00 | 63.5 | 1.6 | 8.60 |
| | 80 | 3" | 254 | 30 | - | 62.0 | 76.3 | 2.0 | 89.1 | 3.00 | 76.1 | 1.6 | 8.00 |
| 100 | 100 | 4" | 305 | 30 | - | 76.0 | 101.6 | 2.0 | 114.3 | 3.00 | 101.6 | 2.0 | 24.10 |

* only for investment cast design

** only for forged design

MG = diaphragm size

For materials see overview on page 17



Body dimensions [mm]

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

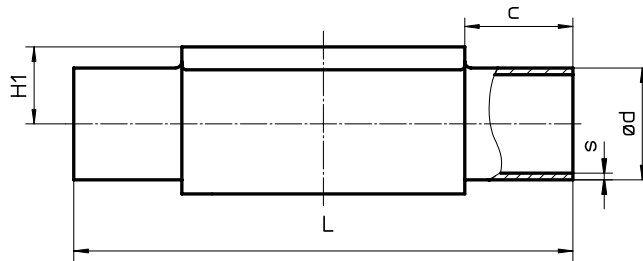
| Pipe standard | | | | | | | BS 4825 Part 1 | ASME BPE / DIN 11866 series C | | ANSI/ASME B36.19M Schedule 10s | | ANSI/ASME B36.19M Schedule 40s | | Weight [kg] | |
|-----------------|-----|--------|-----|----|------|------|-------------------|-------------------------------------|--------|--------------------------------------|-------|--------------------------------------|-------|----------------|-------|
| Connection code | | | | | | | 55 | 59 | | 63 | | 65 | | | |
| MG | DN | NPS | L | c | H1* | H1** | ød | s | ød | s | ød | s | ød | | s |
| 8 | 6 | - | 72 | 20 | - | 8.5 | - | - | - | - | 10.3 | 1.24 | 10.3 | 1.73 | 0.09 |
| | 8 | 1/4" | 72 | 20 | 8.5 | 8.5 | 6.35 | 1.2 | 6.35 | 0.89 | 13.7 | 1.65 | 13.7 | 2.24 | 0.09 |
| | 10 | 3/8" | 72 | 20 | 8.5 | 8.5 | 9.53 | 1.2 | 9.53 | 0.89 | - | - | - | - | 0.09 |
| | 15 | 1/2" | 72 | 20 | 8.5 | 8.5 | 12.70 | 1.2 | 12.70 | 1.65 | - | - | - | - | 0.09 |
| 10 | 10 | 3/8" | 108 | 25 | - | 12.5 | 9.53 | 1.2 | 9.53 | 0.89 | 17.1 | 1.65 | 17.1 | 2.31 | 0.30 |
| | 15 | 1/2" | 108 | 25 | - | 12.5 | 12.70 | 1.2 | 12.70 | 1.65 | 21.3 | 2.11 | 21.3 | 2.77 | 0.30 |
| | 20 | 3/4" | 108 | 25 | 12.5 | 12.5 | 19.05 | 1.2 | 19.05 | 1.65 | - | - | - | - | 0.30 |
| 25 | 15 | 1/2" | 120 | 25 | - | 19.0 | - | - | - | - | 21.3 | 2.11 | 21.3 | 2.77 | 0.62 |
| | 20 | 3/4" | 120 | 25 | 16.0 | 19.0 | 19.05 | 1.2 | 19.05 | 1.65 | 26.7 | 2.11 | 26.7 | 2.87 | 0.58 |
| | 25 | 1" | 120 | 25 | 19.0 | 19.0 | - | - | 25.40 | 1.65 | 33.4 | 2.77 | 33.4 | 3.38 | 0.55 |
| 40 | 32 | 1 1/4" | 153 | 25 | - | 26.0 | - | - | - | - | 42.2 | 2.77 | 42.2 | 3.56 | 1.45 |
| | 40 | 1 1/2" | 153 | 25 | 26.0 | 26.0 | - | - | 38.10 | 1.65 | 48.3 | 2.77 | 48.3 | 3.68 | 1.32 |
| 50 | 50 | 2" | 173 | 30 | 32.0 | 32.0 | - | - | 50.80 | 1.65 | 60.3 | 2.77 | 60.3 | 3.91 | 2.25 |
| | 65 | 2 1/2" | 173 | 30 | - | 34.0 | - | - | 63.50 | 1.65 | - | - | - | - | 2.10 |
| 80 | 65 | 2 1/2" | 216 | 30 | - | 62.0 | - | - | 63.50 | 1.65 | 73.0 | 3.05 | 73.0 | 5.16 | 8.60 |
| | 80 | 3" | 254 | 30 | - | 62.0 | - | - | 76.20 | 1.65 | 88.9 | 3.05 | 88.9 | 5.49 | 8.00 |
| 100 | 100 | 4" | 305 | 30 | - | 76.0 | - | - | 101.60 | 2.11 | 114.3 | 3.05 | 114.3 | 6.02 | 24.10 |

* only for investment cast design

** only for forged design

MG = diaphragm size

For materials see overview on page 17

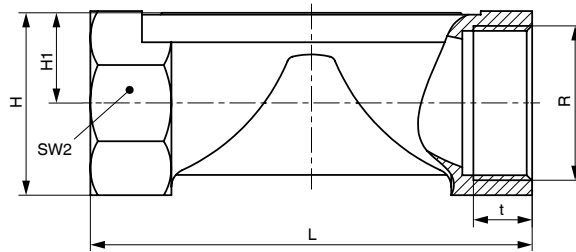


Body dimensions [mm]

Threaded sockets, connection code 1 Valve body material: Investment casting (code 37)

| MG | DN | R | H | H1 | t | L | SW2 | Number of flats | Weight [kg] |
|----|----|---------|------|------|----|-----|-----|-----------------|-------------|
| 8 | 8 | G 1/4 | 19.0 | 9.0 | 11 | 72 | 18 | 6 | 0.09 |
| 10 | 12 | G 3/8 | 25.0 | 13.0 | 12 | 55 | 22 | 2 | 0.17 |
| | 15 | G 1/2 | 30.0 | 15.0 | 15 | 68 | 27 | 2 | 0.26 |
| 25 | 15 | G 1/2 | 28.3 | 14.8 | 15 | 85 | 27 | 6 | 0.32 |
| | 20 | G 3/4 | 33.3 | 17.3 | 16 | 85 | 32 | 6 | 0.34 |
| | 25 | G 1 | 42.3 | 21.8 | 13 | 110 | 41 | 6 | 0.39 |
| 40 | 32 | G 1 1/4 | 51.3 | 26.3 | 20 | 120 | 50 | 8 | 0.88 |
| | 40 | G 1 1/2 | 56.3 | 28.8 | 18 | 140 | 55 | 8 | 0.93 |
| 50 | 50 | G 2 | 71.3 | 36.3 | 26 | 165 | 70 | 8 | 1.56 |

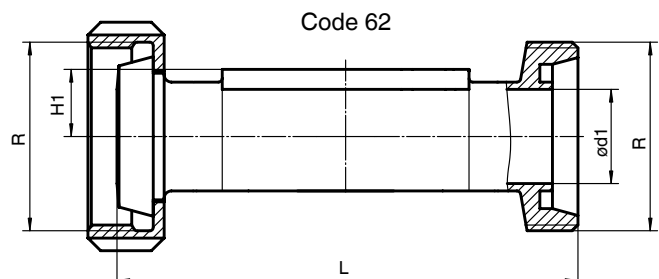
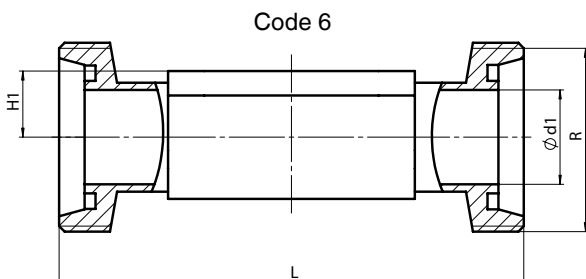
MG = diaphragm size



Threaded connections, connection code 6, 62 Valve body material: Forged body (code 40)

| MG | DN | H1 | ød1 | Thread to DIN 405 R | Code 6 L | Code 62 L | Weight [kg] |
|----|----|------|------|---------------------|----------|-----------|-------------|
| 8 | 10 | 8.5 | 10.0 | RD 28 x 1/8 | 92 | 90 | 0.21 |
| 10 | 10 | 12.5 | 10.0 | RD 28 x 1/8 | 118 | 116 | 0.33 |
| | 15 | 12.5 | 16.0 | RD 34 x 1/8 | 118 | 116 | 0.35 |
| 25 | 15 | 19.0 | 16.0 | RD 34 x 1/8 | 118 | 116 | 0.71 |
| | 20 | 19.0 | 20.0 | RD 44 x 1/6 | 118 | 116 | 0.78 |
| 40 | 25 | 19.0 | 26.0 | RD 52 x 1/6 | 128 | 127 | 0.79 |
| | 32 | 26.0 | 32.0 | RD 58 x 1/6 | 147 | 147 | 1.66 |
| 50 | 40 | 26.0 | 38.0 | RD 65 x 1/6 | 160 | 160 | 1.62 |
| | 50 | 32.0 | 50.0 | RD 78 x 1/6 | 191 | 191 | 2.70 |
| 80 | 65 | 62.0 | 66.0 | RD 95 x 1/6 | 246 | 246 | 9.22 |
| | 80 | 62.0 | 81.0 | RD 110 x 1/4 | 256 | 256 | 9.20 |

MG = diaphragm size



Body dimensions [mm]

**Flanges - DIN EN 1092, connection code 8
Valve body material investment casting (code C3), forged body (code 40),
investment casting PFA lined (code 39)**

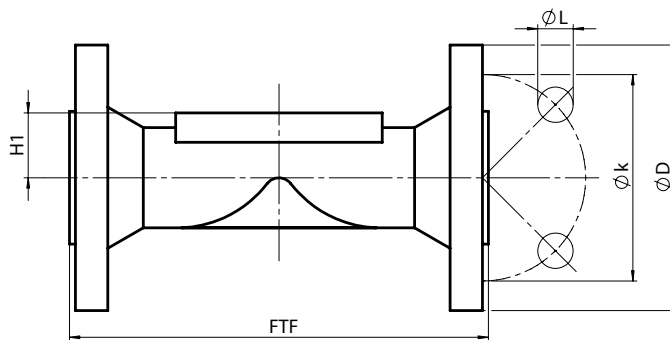
| MG | DN | øD | øk | øL | Number of bolts | H1 | | | FTF | Weight [kg] |
|-----|-----|-----|-----|----|-----------------|------------------|------------------|------------------|------|-------------|
| | | | | | | Material code C3 | Material code 39 | Material code 40 | | |
| 25 | 15 | 95 | 65 | 14 | 4 | 13.0 | 18.0 | 19.0 | 130* | 1.85 |
| | 20 | 105 | 75 | 14 | 4 | 16.0 | 20.5 | 19.0 | 150 | 2.35 |
| | 25 | 115 | 85 | 14 | 4 | 19.0 | 23.0 | 19.0 | 160 | 2.85 |
| 40 | 32 | 140 | 100 | 19 | 4 | 24.0 | 28.7 | 26.0 | 180 | 4.90 |
| | 40 | 150 | 110 | 19 | 4 | 26.0 | 33.0 | 26.0 | 200 | 5.65 |
| 50 | 50 | 165 | 125 | 19 | 4 | 32.0 | 39.0 | 32.0 | 230 | 7.45 |
| 80 | 65 | 185 | 145 | 19 | 4 | - | 51.0 | 62.0 | 290 | 10.20 |
| | 80 | 200 | 160 | 19 | 8 | - | 59.5 | 62.0 | 310 | 14.20 |
| 100 | 100 | 220 | 180 | 19 | 8 | - | 73.0 | 76.0 | 350 | 21.00 |

* Material code C3, 40 FTF = 150 (no DIN length) MG = diaphragm size For materials see overview on page 18

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

| MG | DN | øD | øk | øL | Number of bolts | H1 | | | FTF | | Weight [kg] |
|-----|-----|-----|-------|------|-----------------|------------------|------------------|------------------|--------------------|--------------------|-------------|
| | | | | | | Material code C3 | Material code 39 | Material code 40 | Connection code 38 | Connection code 39 | |
| 25 | 15 | 90 | 60.3 | 15.9 | 4 | 13.0 | 18.0 | 19.0 | - | 130* | 1.85 |
| | 20 | 100 | 69.9 | 15.9 | 4 | 16.0 | 20.5 | 19.0 | 146 | 150 | 2.35 |
| | 25 | 110 | 79.4 | 15.9 | 4 | 19.0 | 23.0 | 19.0 | 146 | 160 | 2.85 |
| 40 | 32 | 115 | 88.9 | 15.9 | 4 | 24.0 | 28.7 | 26.0 | - | 180 | 4.90 |
| | 40 | 125 | 98.4 | 15.9 | 4 | 26.0 | 33.0 | 26.0 | 175 | 200 | 5.65 |
| 50 | 50 | 150 | 120.7 | 19.0 | 4 | 32.0 | 39.0 | 32.0 | 200 | 230 | 7.45 |
| 80 | 65 | 180 | 139.7 | 19.0 | 4 | - | 51.0 | 62.0 | 226 | 290 | 10.20 |
| | 80 | 190 | 152.4 | 19.0 | 4 | - | 59.5 | 62.0 | 260 | 310 | 14.20 |
| 100 | 100 | 230 | 190.5 | 19.0 | 8 | - | 73.0 | 76.0 | 327 | 350 | 21.00 |

* Material code C3, 40 FTF = 150 (no DIN length) MG = diaphragm size For materials see overview on page 18

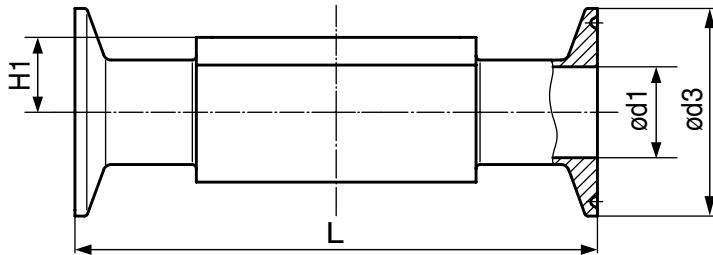


Body dimensions [mm]

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

| Pipe connection for clamp | | | ASME BPE | | | | | | | ISO 1127 / EN 10357 series C / DIN 11866 series B | | | EN 10357 series A (formerly DIN 11850 series 2) / DIN 11866 series A | | | SMS 3008 | | | Weight [kg] |
|---------------------------|-----|--------|----------|-------|-------|-------|-------|-------|-----|---|-------|-------|--|-------|-------|---------------------|-------|-----|-------------|
| Clamp connection | | | ASME BPE | | | | | | | DIN 32676 series B | | | DIN 32676 series A | | | ISO 2852 / SMS 3017 | | | |
| Clamp connection code | | | 80 | | | 88 | | | | 82 | | | 8A | | | 8E | | | |
| MG | DN | NPS | H1 | ød1 | ød3 | L | ød1 | ød3 | L | ød1 | ød3 | L | ød1 | ød3 | L | ød1 | ød3 | L | |
| 8 | 6 | 1/8" | 8.5 | - | - | - | - | - | - | 7.0 | 25.0 | 63.5 | 6 | 25.0 | 63.5 | - | - | - | - |
| | 8 | 1/4" | 8.5 | 4.57 | 25.0 | 63.5 | - | - | - | 10.3 | 25.0 | 63.5 | 8 | 25.0 | 63.5 | - | - | - | 0.15 |
| | 10 | 3/8" | 8.5 | 7.75 | 25.0 | 63.5 | - | - | - | - | - | - | 10 | 34.0 | 88.9 | - | - | - | 0.18 |
| | 15 | 1/2" | 8.5 | 9.40 | 25.0 | 63.5 | 9.40 | 25.0 | 108 | - | - | - | - | - | - | - | - | - | 0.18 |
| 10 | 10 | 3/8" | 12.5 | - | - | - | - | - | - | 14.0 | 25.0 | 108.0 | 10 | 34.0 | 108.0 | - | - | - | 0.30 |
| | 15 | 1/2" | 12.5 | 9.40 | 25.0 | 88.9 | 9.40 | 25.0 | 108 | 18.1 | 50.5 | 108.0 | 16 | 34.0 | 108.0 | - | - | - | 0.43 |
| | 20 | 3/4" | 12.5 | 15.75 | 25.0 | 101.6 | 15.75 | 25.0 | 117 | - | - | - | - | - | - | - | - | - | 0.43 |
| 25 | 15 | 1/2" | 19.0 | - | - | - | - | - | - | 18.1 | 50.5 | 108.0 | 16 | 34.0 | 108.0 | - | - | - | 0.75 |
| | 20 | 3/4" | 19.0 | 15.75 | 25.0 | 101.6 | 15.75 | 25.0 | 117 | 23.7 | 50.5 | 117.0 | 20 | 34.0 | 117.0 | - | - | - | 0.71 |
| | 25 | 1" | 19.0 | 22.10 | 50.5 | 114.3 | 22.10 | 50.5 | 127 | 29.7 | 50.5 | 127.0 | 26 | 50.5 | 127.0 | 22.6 | 50.5 | 127 | 0.63 |
| 40 | 32 | 1 1/4" | 26.0 | - | - | - | - | - | - | 38.4 | 64.0 | 146.0 | 32 | 50.5 | 146.0 | 31.3 | 50.5 | 146 | 1.62 |
| | 40 | 1 1/2" | 26.0 | 34.80 | 50.5 | 139.7 | 34.80 | 50.5 | 159 | 44.3 | 64.0 | 159.0 | 38 | 50.5 | 159.0 | 35.6 | 50.5 | 159 | 1.50 |
| 50 | 50 | 2" | 32.0 | 47.50 | 64.0 | 158.8 | 47.50 | 64.0 | 190 | 56.3 | 77.5 | 190.0 | 50 | 64.0 | 190.0 | 48.6 | 64.0 | 190 | 2.50 |
| | 65 | 2 1/2" | 34.0 | 60.20 | 77.5 | 193.8 | 60.20 | 77.5 | 216 | - | - | - | - | - | - | 60.3 | 77.5 | 216 | 2.30 |
| 80 | 65 | 2 1/2" | 62.0 | 60.20 | 77.5 | 193.8 | 60.20 | 77.5 | 216 | 72.1 | 91.0 | 216.0 | 66 | 91.0 | 216.0 | 60.3 | 77.5 | 216 | 8.90 |
| | 80 | 3" | 62.0 | 72.90 | 91.0 | 222.3 | 72.90 | 91.0 | 254 | 84.3 | 106.0 | 254.0 | 81 | 106.0 | 254.0 | 72.9 | 91.0 | 254 | 8.50 |
| 100 | 100 | 4" | 76.0 | 97.38 | 119.0 | 292.1 | 97.38 | 119.0 | 305 | 109.7 | 130.0 | 305.0 | 100 | 119.0 | 305.0 | 97.6 | 119.0 | 305 | 24.80 |

MG = diaphragm size



Overview of valve bodies for GEMÜ 650

| | | Spigots | | | | | | | | | | | | | | | | | |
|-----------------|-----|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Connection code | | 0 | | 16 | 17 | | 18 | 35 | 36 | 37 | | 55 | 59 | | 60 | | 63 | 65 | |
| Material code | | C3 | 40 | 40 | C3 | 40 | 40 | 40 | 40 | C3 | 40 | 40 | C3 | 40 | C3 | 40 | 40 | 40 | 40 |
| MG | DN | | | | | | | | | | | | | | | | | | |
| 8 | 4 | X | X | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 6 | - | - | - | X | X | - | - | X | - | - | - | - | - | - | X | X | X | X |
| | 8 | - | - | - | X | X | - | - | X | - | - | X | X | X | X | X | X | X | X |
| | 10 | - | - | X | X | X | X | - | - | - | - | X | X | X | - | - | - | - | - |
| | 15 | - | - | - | - | - | - | - | - | - | - | X | X | X | - | - | - | - | - |
| 10 | 10 | - | - | X | X | X | X | - | X | - | - | X | - | X | X | X | X | X | X |
| | 15 | - | X | X | X | X | X | - | X | - | - | X | - | X | X | X | X | X | X |
| | 20 | - | - | - | - | - | - | - | - | - | - | X | X | X | - | - | - | - | - |
| 25 | 15 | - | X | X | X | X | X | - | X | - | - | - | - | - | X | X | X | X | X |
| | 20 | - | X | X | X | X | X | - | X | - | - | X | X | X | X | X | X | X | X |
| | 25 | - | X | X | X | X | X | X | X | X | X | - | X | X | X | X | X | X | X |
| 40 | 32 | - | X | X | X | X | X | X | X | - | X | - | - | - | X | X | X | X | X |
| | 40 | - | X | X | X | X | X | X | X | X | X | - | X | X | X | X | X | X | X |
| 50 | 50 | - | X | X | X | X | X | X | X | X | X | - | X | X | X | X | X | X | X |
| | 65 | - | - | - | - | - | - | X | - | - | X | - | - | X | - | - | - | - | - |
| 80 | 65 | - | - | - | - | X | - | X | X | - | X | - | - | X | - | X | X | X | X |
| | 80 | - | - | - | - | X | - | X | X | - | X | - | - | X | - | X | X | X | X |
| 100 | 100 | - | - | - | - | X | - | X | X | - | X | - | - | X | - | X | X | X | X |

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

Overview of valve bodies for GEMÜ 650

| | | Threaded connections | | | Clamps | | | | | Flanges | | | | | | |
|-----------------|-----|----------------------|----|----|--------|----|----|----|----|---------|----|----|----|----|----|----|
| Connection code | | 1 | 6 | 62 | 80 | 82 | 88 | 8A | 8E | 8 | | | 38 | 39 | | |
| Material code | | 37 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | C3 | 39 | 40 | 39 | C3 | 39 | 40 |
| MG | DN | | | | | | | | | | | | | | | |
| 8 | 6 | - | - | - | - | K | - | K | - | - | - | - | - | - | - | - |
| | 8 | X | - | - | K | K | - | K | - | - | - | - | - | - | - | - |
| | 10 | - | W | W | K | - | - | W | - | - | - | - | - | - | - | - |
| | 15 | - | - | - | K | - | W | - | - | - | - | - | - | - | - | - |
| 10 | 10 | - | W | W | - | K | - | K | - | - | - | - | - | - | - | - |
| | 12 | X | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 15 | X | W | W | K | W | K | K | - | - | - | - | - | - | - | - |
| | 20 | - | - | - | K | - | K | - | - | - | - | - | - | - | - | - |
| 25 | 15 | X | W | W | - | W | - | K | - | W | X | W | - | W | X | W |
| | 20 | X | W | W | K | K | K | K | - | W | X | W | X | W | X | W |
| | 25 | X | W | W | K | K | K | K | K | W | X | W | X | W | X | W |
| 40 | 32 | X | W | W | - | W | - | K | K | W | X | W | - | W | X | W |
| | 40 | X | W | W | K | W | K | K | K | W | X | W | X | W | X | W |
| 50 | 50 | X | W | W | K | W | K | K | K | W | X | W | X | W | X | W |
| | 65 | - | - | - | W | - | W | - | W | - | - | - | - | - | - | - |
| 80 | 65 | - | W | W | K | K | K | K | K | - | - | W | - | - | - | W |
| | 80 | - | W | W | K | W | K | W | K | - | X | W | X | - | X | W |
| 100 | 100 | - | - | - | W | W | W | W | W | - | X | W | X | - | X | W |

X = Standard

K = Connections completely machined (not welded)

W = Welded construction

Availability of material code 42, F4: same as code 40

MG = diaphragm size

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

GEMÜ VALVES, MEASUREMENT
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