

GEMÜ 529 eSyLite

Motorized angle seat globe valve



Features

- Motorized linear actuator for open-close applications
- Safety shut-down integrated
- Integrated emergency power supply module (optional)
- Standard optical position indicator and manual override
- Self-locking spindle actuator
- Electrical position indicator GEMÜ 1215 (optional)

Description

The 2/2-way angle seat globe valve GEMÜ 529 eSyLite is motorized. It is available in an open/close version. The valve spindle is sealed by a self-adjusting gland packing, which ensures low-maintenance and reliable valve spindle sealing even during its long service life. The scraper ring in front of the gland packing provides additional protection for the seal against contamination and damage. A visual position indicator is integrated as standard. The self-locking actuator maintains its position even if the supply voltage fails.

Technical specifications

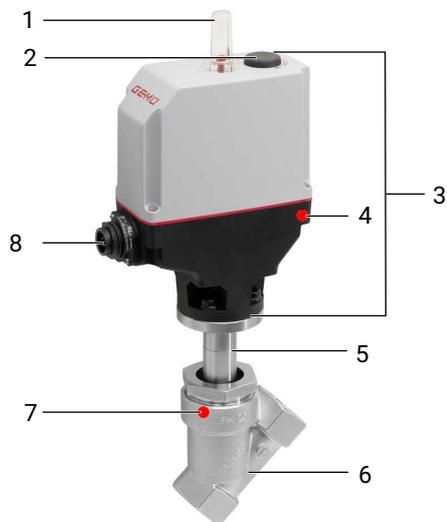
- **Media temperature:** -10 to 180 °C
- **Ambient temperature:** -10 Up to 60 °C
- **Operating pressure :** 0 Up to 25 bar
- **Nominal sizes:** DN 6 to 80
- **Body configurations:** Angle valve body | Straight through body
- **Connection types:** Clamp | Flange | Spigot | thread
- **Connection standards :** ANSI | ASME | BS | DIN | EN | ISO | NPT | SMS
- **Body materials:** 1.4408, investment casting material | 1.4435, investment casting material | CC499K, cast bronze material
- **Seat seal materials:** PTFE | PTFE, reinforced
- **Supply voltage:** 24 V DC
- **Actuating speed:** max. 3 mm/s
- **Protection class :** IP65
- **Conformities:** FDA | Regulation (EC) No. 1935/2004 | TA Luft (German Clean Air Act)

Technical data depends on the respective configuration



Product description

Construction



| Position | Name | Materials |
|----------|--|---|
| 1 | Transparent cap for optical position indicator | PA 12 |
| 2 | Manual override | |
| 3 | Motorized actuator | Reinforced polyamide |
| 4 | CONEXO actuator RFID chip | |
| 5 | Distance piece with leak detection hole | 1.4305 / 1.4408 |
| 6 | Valve body | 1.4435, investment casting 1.4408, investment casting CC499K, cast bronze |
| 7 | CONEXO body RFID chip | |
| 8 | Electrical connection | |

GEMÜ CONEXO

The interaction of valve components that are equipped with RFID chips and an associated IT infrastructure actively increase process reliability.



Thanks to serialization, every valve and every relevant valve component such as the body, actuator or diaphragm, and even automation components, can be clearly traced and read using the CONEXO pen RFID reader. The CONEXO app, which can be installed on mobile devices, not only facilitates and improves the "installation qualification" process, but also makes the maintenance process much more transparent and easier to document. The app actively guides the maintenance technician through the maintenance schedule and directly provides him with all the information assigned to the valve, such as test reports, testing documentation and maintenance histories. The CONEXO portal acts as a central element, helping to collect, manage and process all data.

For further information on GEMÜ CONEXO please visit:

www.gemu-group.com/conexo

Ordering

GEMÜ Conexo must be ordered separately with the ordering option "CONEXO".

Availabilities

Availability of valve bodies

Spigot, actuator size 0

| DN | Connection type code ¹⁾ | | | | |
|----|------------------------------------|----|----|----|----|
| | 0 | 16 | 17 | 59 | 60 |
| | Material code 40 ²⁾ | | | | |
| 6 | X | - | - | - | - |
| 8 | X | - | X | - | X |
| 10 | - | X | X | X | - |
| 15 | - | - | - | X | - |

X = Standard

1) **Connection type**

Code 0: Spigot DIN

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

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

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

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

2) **Valve body material**

Code 40: 1.4435 (F316L), forged body

Spigot for actuator size 1, 3

| DN | Connection type code ¹⁾ | | | | | | | | | | | | | | |
|----|------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 0 | 16 | 17 | | | 37 | | 59 | | | 60 | | | 63 | 65 |
| | Material code ²⁾ | | | | | | | | | | | | | | |
| | 34 | 34 | 34 | 37 | C2 | 34 | 37 | 34 | 37 | C2 | 34 | 37 | C2 | 37 | 34 |
| 15 | X | X | X | X | X | - | - | X | - | X | X | X | X | X | X |
| 20 | 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 |
| 32 | - | X | X | X | X | - | - | - | - | - | X | X | X | - | X |
| 40 | X | X | X | X | X | X | - | X | - | X | X | X | X | X | X |
| 50 | X | X | X | X | X | X | - | X | - | X | X | X | X | X | X |
| 65 | - | - | - | X | X | - | X | - | X | X | - | X | X | X | - |
| 80 | - | - | - | X | X | - | X | - | X | X | - | X | X | X | - |

X = Standard

1) **Connection type**

Code 0: Spigot DIN

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

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

Code 37: Spigot SMS 3008

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

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

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

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

2) **Valve body material**

Code 34: 1.4435, investment casting

Code 37: 1.4408, investment casting

Code C2: 1.4435, investment casting

Threaded connection, actuator size 0

| DN | Connection type code ¹⁾ | | | | |
|-----------|------------------------------------|----|----|----|----|
| | 1 | 3C | 3D | 9 | |
| | Material code ²⁾ | | | | |
| | 37 | 37 | 37 | 37 | 40 |
| 6 | - | - | - | - | X |
| 8 | X | - | X | X | - |
| 10 | X | X | X | X | - |
| 15 | X | - | X | X | - |

X = Standard

1) Connection type

Code 1: Threaded socket DIN ISO 228

Code 3C: Threaded socket Rc ISO 7-1, EN 10226-2, JIS B 0203, BS 21, end-to-end dimension ETE DIN 3202-4 series M8

Code 3D: Threaded socket NPT, end-to-end dimension ETE DIN 3202-4 series M8

Code 9: Threaded spigot DIN ISO 228

2) Valve body material

Code 37: 1.4408, investment casting

Code 40: 1.4435 (F316L), forged body

Threaded connection for actuator size 1, 3

Body configuration code D ¹⁾

| DN | Connection type code ²⁾ | | | | | | |
|----|------------------------------------|----|----|----|----|---|----|
| | 1 | | 3C | 3D | | 9 | |
| | Material code ³⁾ | | | | | | |
| | 9 | 37 | 37 | 9 | 37 | 9 | 37 |
| 15 | X | X | X | X | X | X | X |
| 20 | X | X | X | X | X | X | X |
| 25 | X | X | X | X | X | X | X |
| 32 | X | X | X | X | X | - | X |
| 40 | X | X | X | X | X | X | X |
| 50 | X | X | X | X | X | X | X |
| 65 | X | X | X | - | X | X | X |
| 80 | X | X | X | - | X | X | X |

Body configuration code E ¹⁾

| DN | Connection type code ²⁾ | |
|----|------------------------------------|----|
| | 1 | 3D |
| | Material code ³⁾ | |
| | 37 | 37 |
| 15 | X | X |
| 20 | X | X |
| 25 | X | X |
| 32 | X | X |
| 40 | X | X |
| 50 | X | X |

X = Standard

1) Housing configuration

Code D: 2/2-way body
Code E: Angle valve body

2) Connection type

Code 1: Threaded socket DIN ISO 228
Code 3C: Threaded socket Rc ISO 7-1, EN 10226-2, JIS B 0203, BS 21, end-to-end dimension ETE DIN 3202-4 series M8
Code 3D: Threaded socket NPT, end-to-end dimension ETE DIN 3202-4 series M8
Code 9: Threaded spigot DIN ISO 228

3) Valve body material

Code 9: CC499K, cast bronze
Code 37: 1.4408, investment casting

Flange

| DN | Connection type code ¹⁾ | |
|----|------------------------------------|----|
| | 13 | 47 |
| | Material code ²⁾ | |
| | 34 | 34 |
| 15 | X | X |
| 20 | X | X |
| 25 | X | X |
| 32 | X | X |
| 40 | X | X |
| 50 | X | X |

X = Standard

1) **Connection type**

Code 13: Flange EN 1092, PN 25, form B

Code 47: Flange ANSI Class 150 RF

2) **Valve body material**

Code 34: 1.4435, investment casting

Clamp

| DN | Connection type code ¹⁾ | | | |
|----|------------------------------------|----|----|----|
| | 80 | 82 | 86 | 88 |
| | Material code ²⁾ | | | |
| | 34 | 34 | 34 | 34 |
| 15 | X | X | X | X |
| 20 | X | X | X | X |
| 25 | X | X | X | X |
| 32 | - | X | X | - |
| 40 | X | X | X | X |
| 50 | X | X | X | X |

X = Standard

1) **Connection type**

Code 80: Clamp ASME BPE, face-to-face dimension FTF ASME BPE

Code 82: Clamp DIN 32676 series B, face-to-face dimension FTF EN 558 series 1

Code 86: Clamp DIN 32676 series A, face-to-face dimension FTF EN 558 series 1

Code 88: Clamp ASME BPE, for pipe ASME BPE, face-to-face dimension FTF EN 558 series 1

2) **Valve body material**

Code 34: 1.4435, investment casting

Product conformity

| Foodstuffs | Approved designs | | |
|---|---|--|--|
| | Valve body material | Seat seal | Type of design |
| FDA Regulation (EC) 1935/2004 Regulation (EC) 10/2011 | 1.4435, investment casting (code 34) 1.4408, investment casting (code 37) 1.4435, investment casting (code C2) 1.4435 (F316L), forged body (code 40) | PTFE (code 5) PTFE, glass fibre reinforced (code 5G) 1.4404 (code 10) | Spindle seal PTFE-PTFE (code 2013) (standard for actuator size 0 seat diameter 9 mm, code 0E) |

Order data

The order data provide an overview of standard configurations.

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

Order codes

| 1 Type | Code |
|--|------|
| Angle seat globe valve, motorized, eSyLite | 529 |

| 2 DN | Code |
|-------|------|
| 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 |

| 3 Housing configuration | Code |
|-------------------------|------|
| 2/2-way body | D |
| Angle valve body | E |

| 4 Connection type | Code |
|--|------|
| Spigot | |
| Spigot DIN | 0 |
| Spigot DIN EN 10357 series B (2014 issue; formerly DIN 11850 series 1) | 16 |
| Spigot EN 10357 series A/DIN 11866 series A, formerly DIN 11850 series 2 | 17 |
| Spigot SMS 3008 | 37 |
| Spigot ASME BPE/DIN EN 10357 series C (from 2022 issue)/DIN 11866 series C | 59 |
| Spigot ISO 1127/DIN EN 10357 series C (2014 issue)/DIN 11866 series B | 60 |
| Spigot ANSI/ASME B36.19M schedule 10s | 63 |
| Spigot ANSI/ASME B36.19M schedule 40s | 65 |
| Threaded connection | |
| Threaded socket DIN ISO 228 | 1 |
| Threaded socket Rc ISO 7-1, EN 10226-2, JIS B 0203, BS 21, end-to-end dimension ETE DIN 3202-4 series M8 | 3C |
| Threaded socket NPT, end-to-end dimension ETE DIN 3202-4 series M8 | 3D |
| Threaded spigot DIN ISO 228 | 9 |
| Flange | |
| Flange EN 1092, PN 25, form B | 13 |
| Flange ANSI Class 150 RF | 47 |
| Clamp | |
| Clamp ASME BPE, face-to-face dimension FTF ASME BPE | 80 |

| 4 Connection type | Code |
|---|------|
| Clamp DIN 32676 series B, face-to-face dimension FTF EN 558 series 1 | 82 |
| Clamp DIN 32676 series A, face-to-face dimension FTF EN 558 series 1 | 86 |
| Clamp ASME BPE, for pipe ASME BPE, face-to-face dimension FTF EN 558 series 1 | 88 |

| 5 Valve body material | Code |
|------------------------------------|------|
| Investment casting material | |
| 1.4435, investment casting | 34 |
| 1.4408, investment casting | 37 |
| 1.4435, investment casting | C2 |
| Cast bronze | |
| CC499K, cast bronze | 9 |
| 1.4435 (F316L), forged body | 40 |

| 6 Seat seal | Code |
|------------------------------|------|
| PTFE | 5 |
| PTFE, glass fibre reinforced | 5G |
| 1.4404 | 10 |

| 7 Voltage/Frequency | Code |
|---------------------|------|
| 24 V DC | C1 |

| 8 Control module | Code |
|--|------|
| ON/OFF actuator (economy) | A0 |
| ON/OFF actuator (economy) Emergency power supply module (NC) | A1 |
| ON/OFF actuator (economy) Emergency power supply module (NO) | A2 |
| OPEN/CLOSE control with mounted GEMÜ 1215 position indicator | Z0 |
| OPEN/CLOSE control with mounted GEMÜ 1215 position indicator Emergency power supply module (NC) | Z1 |
| OPEN/CLOSE control with mounted GEMÜ 1215 position indicator Emergency power supply module (NO) | Z2 |
| OPEN/CLOSE control with mounted GEMÜ 1235 position indicator | Y0 |
| OPEN/CLOSE control with mounted GEMÜ 1235 position indicator Emergency power supply module (NC) | Y1 |
| OPEN/CLOSE control with mounted GEMÜ 1235 position indicator Emergency power supply module (NO) | Y2 |

| 9 Actuator version | Code |
|---------------------------------------|------|
| Actuator size 0 Seat diameter 9 mm | 0E |

| 9 Actuator version | Code |
|--------------------|------|
| Actuator size 1 | 1A |
| Actuator size 3 | 3A |

| 10 Type of design | Code |
|------------------------|------|
| Standard | |
| PTFE-PTFE spindle seal | 2013 |

| 11 Special version | Code |
|--------------------|------|
| Standard | |

| 11 Special version | Code |
|--|------|
| Special version for oxygen, (max. temperature 60 °C; max. operating pressure 10 bar), media wetted seal materials and auxiliary materials with BAM testing | S |

| 12 CONEXO | Code |
|---|------|
| Without | |
| Integrated RFID chip for electronic identification and traceability | C |

Order example

| Ordering option | Code | Description |
|-------------------------|------|--|
| 1 Type | 529 | Angle seat globe valve, motorized, eSyLite |
| 2 DN | 25 | DN 25 |
| 3 Housing configuration | D | 2/2-way body |
| 4 Connection type | 1 | Threaded socket DIN ISO 228 |
| 5 Valve body material | 37 | 1.4408, investment casting |
| 6 Seat seal | 5 | PTFE |
| 7 Voltage/Frequency | C1 | 24 V DC |
| 8 Control module | A0 | ON/OFF actuator (economy) |
| 9 Actuator version | 1A | Actuator size 1 |
| 10 Type of design | | Standard |
| 11 Special version | | Standard |
| 12 CONEXO | | Without |

Technical data

Medium

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

Max. permissible viscosity: 600 mm²/s
Other versions for lower / higher temperatures and higher viscosities on request.

Temperature

Media temperature: -10 – 180 °C

Ambient temperature: -10 – 60 °C
depending on version and/or operating parameters (see chapter Duty cycle and service life)
If the emergency power supply module (control module code A1, A2, Y1, Y2, Z1, Z2) is used, the maximum ambient temperature is reduced to 40 °C.

Storage temperature: -25 – 60 °C

Pressure

Operating pressure:

| DN | Actuator version 0E | Actuator version 1A | Actuator version 3A |
|----|------------------------|------------------------|------------------------|
| 6 | 25 | - | - |
| 8 | 25 | - | - |
| 10 | 25 | - | - |
| 15 | 25 | 25 | - |
| 20 | - | 25 | - |
| 25 | - | 25 | - |
| 32 | - | 22 | 25 |
| 40 | - | 13 | 25 |
| 50 | - | 8 | 17 |

All pressures are gauge pressures.
For max. operating pressures the pressure / temperature correlation must be observed.
Higher operating pressures on request
DN 65 and DN 80 available on request

Leakage rate: Leakage rate A to P11/P12 EN 12266-1

Pressure/temperature correlation:

| Connection types code ¹⁾ | Material code ²⁾ | Max. allowable operating pressures in bar at temperature in °C | | | |
|-------------------------------------|-----------------------------|--|------|--------|------|
| | | RT | 100 | 150 | 200 |
| 1, 9, 17, 37, 60, 63, 3C, 3D | 37 | 25.0 | 23.8 | 21.4 | 18.9 |
| 0, 16, 17, 37, 59, 60, 65 | 34 | 25.0 | 24.5 | 22.4 | 20.3 |
| 13 (DN 15 - 50) | 34 | 25.0 | 23.6 | 21.5 | 19.8 |
| 80, 88 (DN 15 - 40) | 34 | 25.0 | 21.2 | 19.3** | - |
| 80, 88 (DN 50 - 80) | 34 | 16.0 | 16.0 | 16.0** | - |
| 82 (DN 15 - 32) | 34 | 25.0 | 21.2 | 19.3** | - |
| 82 (DN 40 - 65) | 34 | 16.0 | 16.0 | 16.0** | - |
| 86 (DN 15 - 40) | 34 | 25.0 | 21.2 | 19.3** | - |
| 86 (DN 50 - 65) | 34 | 16.0 | 16.0 | 16.0** | - |
| 47 (DN 15 - 50) | 34 | 15.9 | 13.3 | 12.0 | 11.1 |
| 17, 59, 60 | C2 | 25.0 | 21.2 | 19.3 | 17.9 |

* max. temperature 140 °C

1) Connection type

- Code 0: Spigot DIN
- Code 1: Threaded socket DIN ISO 228
- Code 3C: Threaded socket Rc ISO 7-1, EN 10226-2, JIS B 0203, BS 21, end-to-end dimension ETE DIN 3202-4 series M8
- Code 3D: Threaded socket NPT, end-to-end dimension ETE DIN 3202-4 series M8
- Code 9: Threaded spigot DIN ISO 228
- Code 13: Flange EN 1092, PN 25, form B
- Code 16: Spigot DIN EN 10357 series B (2014 issue; formerly DIN 11850 series 1)
- Code 17: Spigot EN 10357 series A/DIN 11866 series A, formerly DIN 11850 series 2
- Code 37: Spigot SMS 3008
- Code 47: Flange ANSI Class 150 RF
- Code 59: Spigot ASME BPE/DIN EN 10357 series C (from 2022 issue)/DIN 11866 series C
- Code 60: Spigot ISO 1127/DIN EN 10357 series C (2014 issue)/DIN 11866 series B
- Code 63: Spigot ANSI/ASME B36.19M schedule 10s
- Code 65: Spigot ANSI/ASME B36.19M schedule 40s
- Code 80: Clamp ASME BPE, face-to-face dimension FTF ASME BPE
- Code 82: Clamp DIN 32676 series B, face-to-face dimension FTF EN 558 series 1
- Code 86: Clamp DIN 32676 series A, face-to-face dimension FTF EN 558 series 1
- Code 88: Clamp ASME BPE, for pipe ASME BPE, face-to-face dimension FTF EN 558 series 1

2) Valve body material

- Code 34: 1.4435, investment casting
- Code 37: 1.4408, investment casting
- Code C2: 1.4435, investment casting

Kv values:

| DN | Butt weld spigot DIN 11866 | Threaded socket DIN ISO 228 |
|--------------|-------------------------------|--------------------------------|
| DN 6 | 1.6 | - |
| DN 8 | 2.2 | - |
| DN 10 | 2.4 | - |
| DN 15 | 5.5 | 4.5 |
| DN 20 | 11.7 | 10.0 |
| DN 25 | 20.9 | 15.6 |
| DN 32 | 33.0 | 23.0 |
| DN 40 | 51.0 | 41.0 |
| DN 50 | 61.0 | 68.0 |
| DN 65 | 110.0 | 95.0 |
| DN 80 | 117.0 | 130.0 |

Kv values in m³/h

Kv values determined in accordance with DIN EN 60534. The Kv value specifications refer to the largest actuator for the respective nominal size. The Kv values for other product configurations (e.g. other connections or body materials) may differ.

Product conformity

Machinery Directive: 2006/42/EC

Pressure Equipment Directive: 2014/68/EU

Food: Regulation (EC) No. 1935/2004*
Regulation (EC) No. 10/2011*
FDA*

* depending on version and/or operating parameters

EMC Directive: 2014/30/EU

RoHS Directive: 2011/65/EU

Mechanical data

Protection class: IP 65 acc. to EN 60529

Actuating speed: Max. 3 mm/s

Installation position: Optional

Weight: Actuator

| DN | Actuator size | Weight without valve body |
|----|---------------|---------------------------|
| 6 | 0E | 0.41 |
| 8 | 0E | 0.41 |
| 10 | 0E | 0.41 |
| 15 | 0E | 0.41 |
| 15 | 1A | 1.20 |
| 20 | 1A | 1.21 |
| 25 | 1A | 1.22 |
| 32 | 1A | 1.48 |
| 40 | 1A | 1.75 |
| 40 | 3A | 2.25 |
| 50 | 1A | 2.00 |
| 50 | 3A | 2.50 |
| 65 | 3A | - |
| 80 | 3A | - |

Weights in kg
DN 65 and DN 80 available on request

Valve body

| DN | Spigot K514 | Threaded socket | Threaded spigot | Flange K514 | Clamp |
|----|-----------------------|-----------------|-----------------|-------------|----------------|
| | Connection type code | | | | |
| | 0, 16, 17, 37, 59, 60 | 1, 3D, 3C | 9 | 13, 47 | 80, 82, 86, 88 |
| 6 | 0.12 | - | 0.14 | - | - |
| 8 | 0.12 | 0.25 | 0.12 | - | - |
| 10 | 0.12 | 0.25 | 0.14 | - | - |
| 15 | 0.24 | 0.35 | 0.31 | 1.80 | 0.37 |
| 20 | 0.50 | 0.35 | 0.50 | 2.50 | 0.63 |
| 25 | 0.50 | 0.35 | 0.65 | 3.10 | 0.63 |
| 32 | 0.90 | 0.75 | 1.00 | 4.60 | 1.08 |
| 40 | 1.10 | 0.98 | 1.30 | 5.10 | 1.28 |
| 50 | 1.80 | 1.70 | 1.80 | 7.20 | 2.07 |
| 65 | 3.40 | 3.20 | 3.40 | - | 3.69 |
| 80 | 4.20 | 4.10 | 4.40 | - | 4.60 |

Weights in kg

Mechanical environmental conditions: Class 4M8 acc. to EN 60721-3-4:1998

Vibration: 5g acc. to IEC 60068-2-6 Test Fc

Shock: 25g acc. to 60068-2-27 Test Ea

Actuator duty cycle and service life

- Service life:** Class A acc. to EN 15714-2
Minimum 100,000 switching cycles at room temperature and permissible duty cycle.
- Duty cycle:** max. 30% duty

Electrical data

- Supply voltage:** 24 V DC
Tolerance $\pm 10\%$
- Close tight current / rated current:** Actuator size 0E: 0.4 A
Actuator size 1A: 1.1 A
Actuator size 3A: 2.3 A
- Starting current / maximum current:** Actuator size 0E: 0.7 A
Actuator size 1A: 2.4 A
Actuator size 3A: 4.5 A
- Standby current consumption:** approx. 10 mA

Digital input signals

- Input voltage:** max. 30 V DC
 $\geq 56\text{ k}\Omega$
- High level:** $\geq 18\text{ V DC}$
- Low level:** $\leq 5\text{ V DC}$
- Minimum actuation duration:** 600 ms
- Input current:** $< 0.6\text{ mA}$

Emergency power supply module

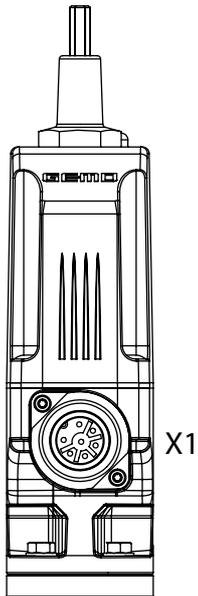
- Charging current:** Actuator size 0E: Max. 0.10 A
Actuator size 1A: Max. 0.16 A
Actuator size 3A: Not available
- Charging time:** approx. 13 min

- Service life:** **For actuator size 1 (AG1 – MG10 and MG25) and actuator size 3 (AG3 – MG40):**
Guide value at 25 °C ambient temperature, approx. 3 years
- For actuator size 0 (AG0 - MG8):**

| Ambient temperature Drive AG0 | Service life of emergency power supply module |
|-------------------------------|---|
| 60 °C | approx. 2.5 years |
| 50 °C | approx. 6 years |
| 40 °C and below | More than 10 years |

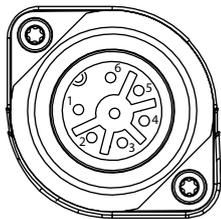
Electrical connection

Position of the connectors



Electrical connection

Connection X1



7-pin plug, Binder, type 693

| Pin | Signal name |
|-----|----------------------|
| 1 | 24 V supply voltage |
| 2 | GND |
| 3 | Digital input OPEN |
| 4 | Digital input CLOSED |
| 5 | n.c. |
| 6 | n.c. |
| 7 | n.c. |

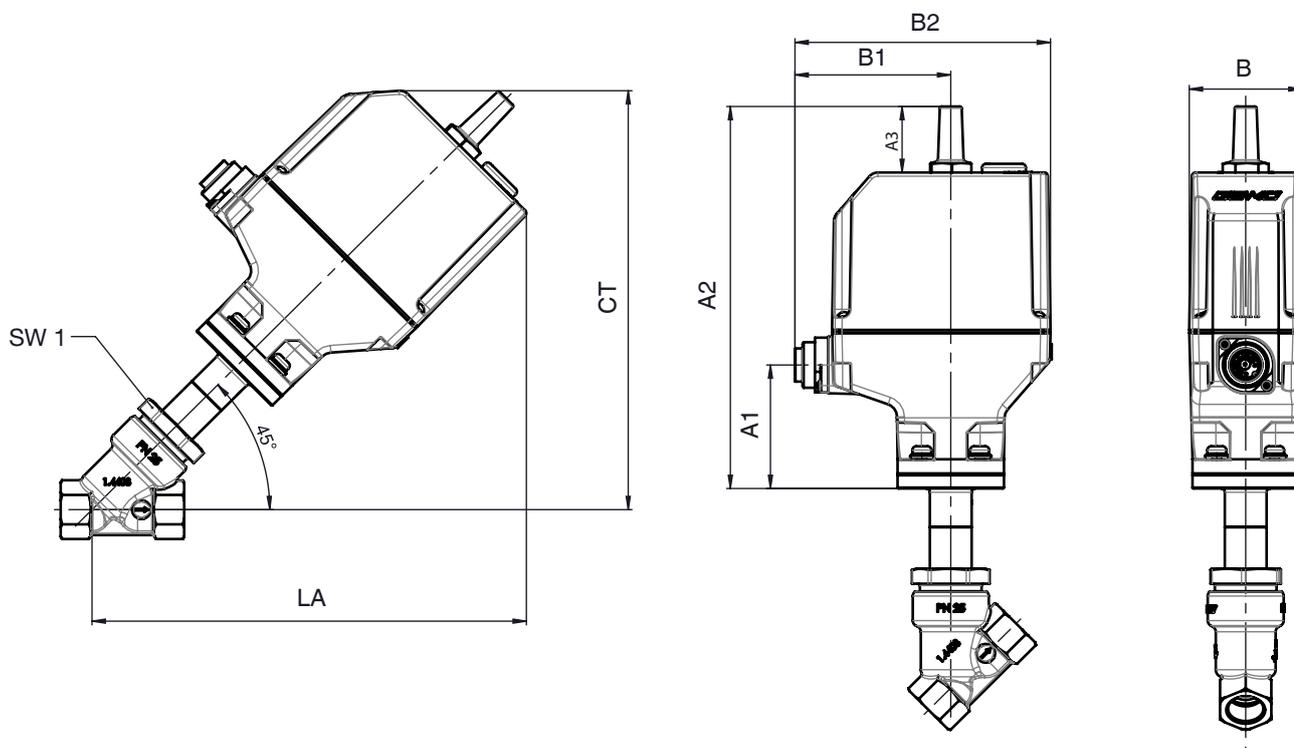
Preferred direction if both digital inputs are present
for device version 00
(see operating instructions – Product label)

| Control module ordering option | Preferred direction |
|--------------------------------|---------------------|
| A0, Y0, Z0 | OPEN |
| A1, Y1, Z1 | CLOSED |

| | |
|---|---------------------|
| Preferred direction if both digital inputs are present for device version 00 (see operating instructions – Product label) | |
| A2, Y1, Z2 | OPEN |
| Preferred direction if both digital inputs are present for device version 01 (see operating instructions – Product label) | |
| Control module ordering option | Preferred direction |
| A0, Y0, Z0 | OPEN |
| A1, Y1, Z1 | OPEN |
| A2, Y2, Z2 | CLOSED |

Dimensions

Installation and actuator dimensions of valve with 2/2-way body without electrical position indicator



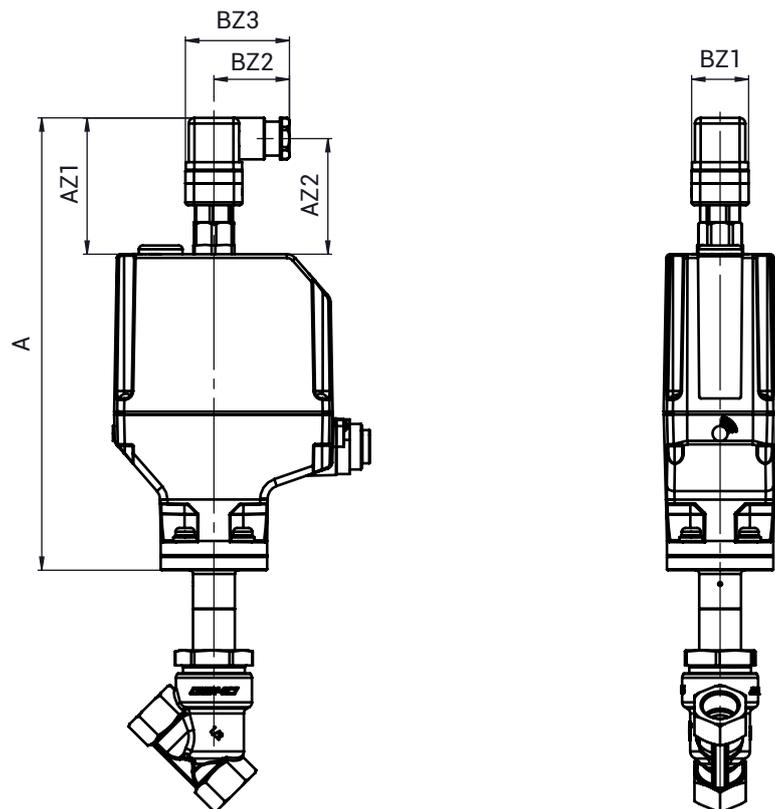
| DN | Actuator version | A1 | A2 | A3 | B | B1 | B2 | CT | LA | SW1 |
|----|------------------|------|-------|------|------|------|-------|-------|-------|-----|
| 6 | 0E | 46.5 | 160.0 | 27.0 | 43.0 | 72.5 | 113.0 | 170 | 171 | 24 |
| 8 | 0E | 46.5 | 160.0 | 27.0 | 43.0 | 72.5 | 113.0 | 170 | 171 | 24 |
| 10 | 0E | 46.5 | 160.0 | 27.0 | 43.0 | 72.5 | 113.0 | 170 | 171 | 24 |
| 15 | 0E | 46.5 | 160.0 | 27.0 | 43.0 | 72.5 | 113.0 | 170 | 171 | 24 |
| 15 | 1A | 65.5 | 203.0 | 35.0 | 59.5 | 82.0 | 134.5 | 222.0 | 229.0 | 36 |
| 20 | 1A | 65.5 | 203.0 | 35.0 | 59.5 | 82.0 | 134.5 | 228.0 | 234.0 | 41 |
| 25 | 1A | 65.5 | 203.0 | 35.0 | 59.5 | 82.0 | 134.5 | 232.0 | 239.0 | 46 |
| 32 | 1A | 65.5 | 203.0 | 35.0 | 59.5 | 82.0 | 134.5 | 239.0 | 246.0 | 55 |
| 40 | 1A | 65.5 | 203.0 | 35.0 | 59.5 | 82.0 | 134.5 | 251.0 | 257.0 | 60 |
| 40 | 3A | 72.0 | 232.0 | 50.0 | 80.0 | 94.5 | 167.0 | 273.0 | 281.0 | 60 |

Dimensions

| DN | Actuator version | A1 | A2 | A3 | B | B1 | B2 | CT | LA | SW1 |
|----|------------------|------|-------|------|------|------|-------|-------|-------|-----|
| 50 | 1A | 65.5 | 203.0 | 35.0 | 59.5 | 82.0 | 134.5 | 259.0 | 265.0 | 75 |
| 50 | 3A | 72.0 | 232.0 | 50.0 | 80.0 | 94.5 | 167.0 | 281.0 | 289.0 | 75 |
| 65 | 3A | 72.0 | 232.0 | 50.0 | 80.0 | 94.5 | 167.0 | 295.0 | 304.0 | 75 |
| 80 | 3A | 72.0 | 232.0 | 50.0 | 80.0 | 94.5 | 167.0 | 310.0 | 318.0 | 75 |

Dimensions in mm

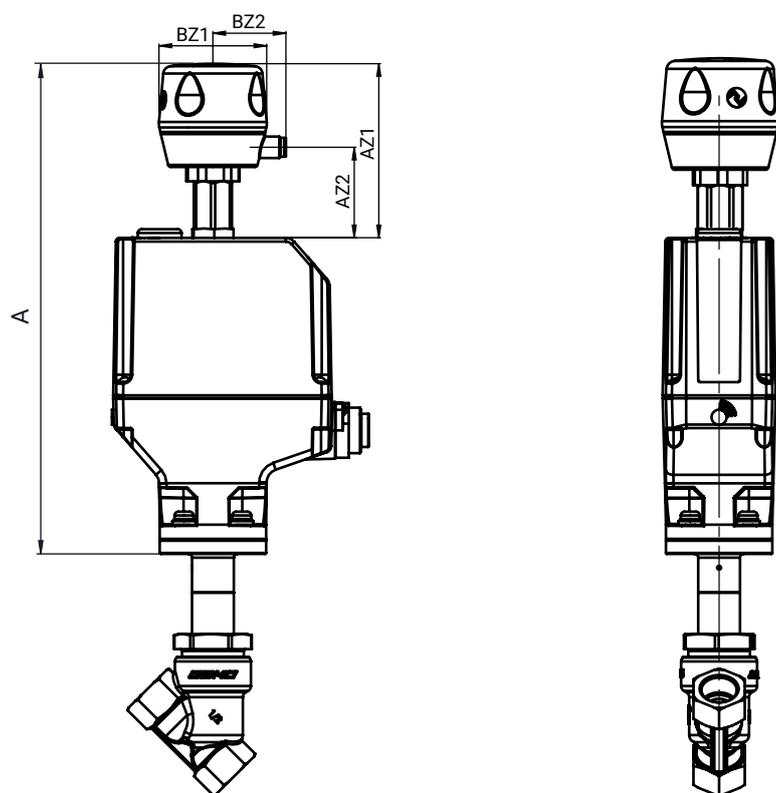
Installation and actuator dimensions of valve with 2/2-way body with 1215 electrical position indicator



| Actuator version | A | AZ1 | AZ2 | BZ1 | BZ2 | BZ3 |
|------------------|-------|------|------|------|------|------|
| 0E | 206.0 | 72.0 | 61.0 | 30.0 | 40.0 | 55.0 |
| 1A | 240.0 | 72.0 | 61.0 | 30.0 | 40.0 | 55.0 |
| 3A | 269.0 | 72.0 | 61.0 | 30.0 | 40.0 | 55.0 |

Dimensions in mm

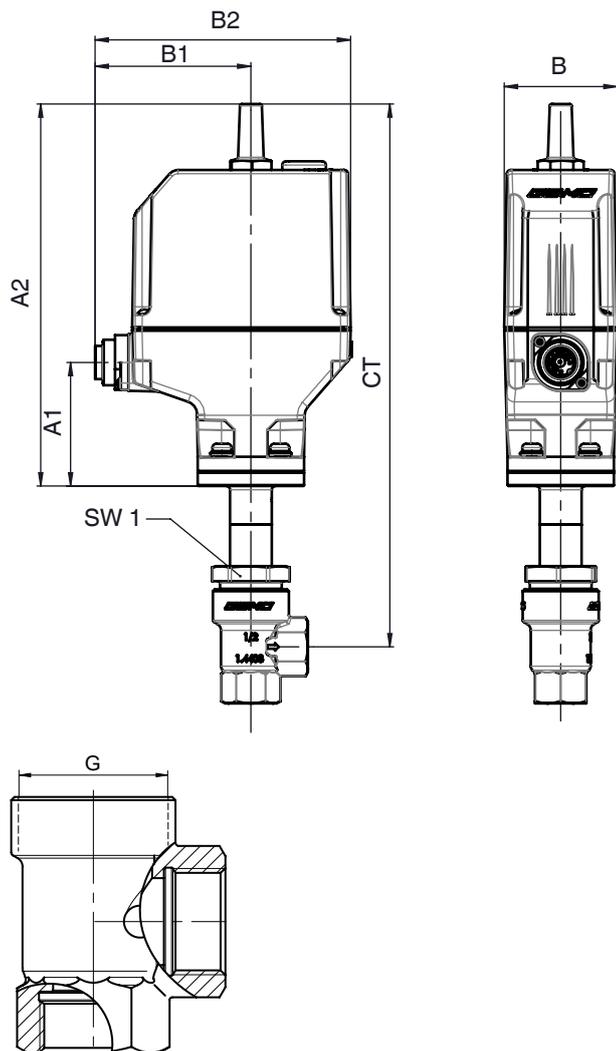
Installation and actuator dimensions of valve with 2/2-way body with 1235 electrical position indicator



| Actuator version | A | AZ1 | AZ2 | Dia. BZ1 | BZ2 |
|------------------|-------|------|------|----------|------|
| 0E | 225.0 | 92.0 | 45.0 | 60.0 | 40.5 |
| 1A | 260.0 | 92.0 | 45.0 | 60.0 | 40.5 |
| 3A | 274.0 | 92.0 | 45.0 | 60.0 | 40.5 |

Dimensions in mm

Installation and actuator dimensions - Valve with angle body

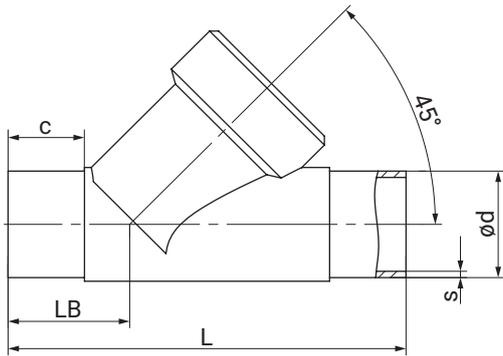


| DN | Actuator version | A1 | A2 | B | B1 | B2 | CT | G | SW1 |
|----|------------------|------|-------|------|------|-------|-------|---------|-----|
| 15 | 1A | 65.5 | 203.0 | 59.5 | 82.0 | 134.5 | 288.0 | M35x1.5 | 36 |
| 20 | 1A | 65.5 | 203.0 | 59.5 | 82.0 | 134.5 | 291.0 | M40x1.5 | 41 |
| 25 | 1A | 65.5 | 203.0 | 59.5 | 82.0 | 134.5 | 295.0 | M45x1.5 | 46 |
| 32 | 1A | 65.5 | 203.0 | 59.5 | 82.0 | 134.5 | 298.0 | M52x1.5 | 55 |
| 40 | 1A | 65.5 | 203.0 | 59.5 | 82.0 | 134.5 | 311.0 | M60x2 | 60 |
| 40 | 3A | 72.0 | 232.0 | 80.0 | 94.5 | 167.0 | 341.0 | M60x2 | 60 |
| 50 | 1A | 65.5 | 203.0 | 59.5 | 82.0 | 134.5 | 316.0 | M72x2 | 75 |
| 50 | 3A | 72.0 | 232.0 | 80.0 | 94.5 | 167.0 | 346.0 | M72x2 | 75 |

Dimensions in mm

Body dimensions

Spigot DIN/EN/ISO/ASME (code 0, 16, 17, 59, 60), actuator size 0



Connection type spigot DIN/EN/ISO/ASME (Code 0, 16, 17, 59, 60)¹⁾, forged material (Code 40)²⁾

| DN | NPS | c (min) | | | | | ød | | | | | L | LB | s | | | | |
|----|------|-----------------|------|------|------|------|------|------|------|-------|------|------|------|-----------------|-----|-----|------|-----|
| | | Connection type | | | | | | | | | | | | Connection type | | | | |
| | | 0 | 16 | 17 | 59 | 60 | 0 | 16 | 17 | 59 | 60 | | | 0 | 16 | 17 | 59 | 60 |
| 6 | 1/8" | 20.0 | - | - | - | 20.0 | 8.0 | - | - | - | - | 80.0 | 26.5 | 1.0 | - | - | - | - |
| 8 | 1/4" | 20.0 | - | 20.0 | 10.0 | - | 10.0 | - | 10.0 | 6.35 | 13.5 | 80.0 | 26.5 | 1.0 | - | 1.0 | 0.98 | 1.6 |
| 10 | 3/8" | - | 20.0 | 20.0 | 20.0 | - | - | 12.0 | 13.0 | 9.53 | - | 80.0 | 26.5 | - | 1.0 | 1.5 | 0.89 | - |
| 15 | 1/2" | - | - | - | 20.0 | - | - | - | - | 12.70 | - | 80.0 | 26.5 | - | - | - | 1.65 | - |

Dimensions in mm

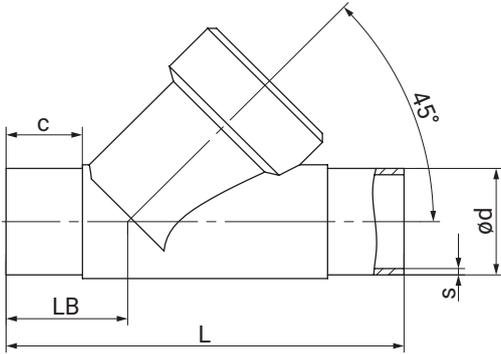
1) **Connection type**

- Code 0: Spigot DIN
- Code 16: Spigot DIN EN 10357 series B (2014 issue; formerly DIN 11850 series 1)
- Code 17: Spigot EN 10357 series A/DIN 11866 series A, formerly DIN 11850 series 2
- Code 59: Spigot ASME BPE/DIN EN 10357 series C (from 2022 issue)/DIN 11866 series C
- Code 60: Spigot ISO 1127/DIN EN 10357 series C (2014 issue)/DIN 11866 series B

2) **Valve body material**

- Code 40: 1.4435 (F316L), forged body

Spigot DIN/EN/ISO/ASME/SMS (code 0, 16, 17, 37, 59, 60, 65), actuator size 1, 3



Connection type spigot DIN/EN/ISO (code 0, 16, 17, 60)¹⁾, investment casting material (code 34)²⁾

| DN | NPS | c (min) | | | | ød | | | | L | LB | s | | | |
|----|--------|-----------------|------|------|------|------|------|------|------|-------|------|-----------------|-----|-----|-----|
| | | Connection type | | | | | | | | | | Connection type | | | |
| | | 0 | 16 | 17 | 60 | 0 | 16 | 17 | 60 | | | 0 | 16 | 17 | 60 |
| 15 | 1/2" | 20 | 20 | 20 | 20 | 18.0 | 18.0 | 19.0 | 21.3 | 105.0 | 35.5 | 1.5 | 1.0 | 1.5 | 1.6 |
| 20 | 3/4" | 25 | 25 | 25 | 25 | 22.0 | 22.0 | 23.0 | 26.9 | 120.0 | 39.0 | 1.5 | 1.0 | 1.5 | 1.6 |
| 25 | 1" | 24.5 | 24.5 | 24.5 | 24.5 | 28.0 | 28.0 | 29.0 | 33.7 | 125.0 | 38.5 | 1.5 | 1.0 | 1.5 | 2.0 |
| 32 | 1 1/4" | - | 26 | 27 | 29 | - | 34.0 | 35.0 | 42.4 | 155.0 | 48.0 | - | 1.0 | 1.5 | 2.0 |
| 40 | 1 1/2" | 24 | 24 | 24 | 43.7 | 40.0 | 40.0 | 41.0 | 48.3 | 160.0 | 47.0 | 1.5 | 1.0 | 1.5 | 2.0 |
| 50 | 2" | 29 | 29 | 29 | 29 | 52.0 | 52.0 | 53.0 | 60.3 | 180.0 | 48.0 | 1.5 | 1.0 | 1.5 | 2.0 |

Connection type spigot ANSI/ASME/SMS (code 37, 59, 65)¹⁾, investment casting material (code 34)²⁾

| DN | NPS | c (min) | | | ød | | | L | LB | s | | |
|----|--------|-----------------|------|------|------|-------|------|-------|------|-----------------|------|------|
| | | Connection type | | | | | | | | Connection type | | |
| | | 37 | 59 | 65 | 37 | 59 | 65 | | | 37 | 59 | 65 |
| 15 | 1/2" | - | 20 | 20 | - | 12.70 | 21.3 | 105.0 | 35.5 | - | 1.65 | 2.77 |
| 20 | 3/4" | - | 25 | 25 | - | 19.05 | 26.7 | 120.0 | 39.0 | - | 1.65 | 2.87 |
| 25 | 1" | 24.5 | 24.5 | 24.5 | 25.0 | 25.40 | 33.4 | 125.0 | 38.5 | 1.2 | 1.65 | 3.88 |
| 32 | 1 1/4" | - | - | - | - | - | 42.4 | 155.0 | 48.0 | - | - | 3.56 |
| 40 | 1 1/2" | 24 | 24 | 42 | 38.0 | 38.10 | 48.3 | 160.0 | 47.0 | 1.2 | 1.65 | 3.68 |
| 50 | 2" | 29 | 29 | 29 | 51.0 | 50.80 | 60.3 | 180.0 | 48.0 | 1.2 | 1.65 | 3.91 |

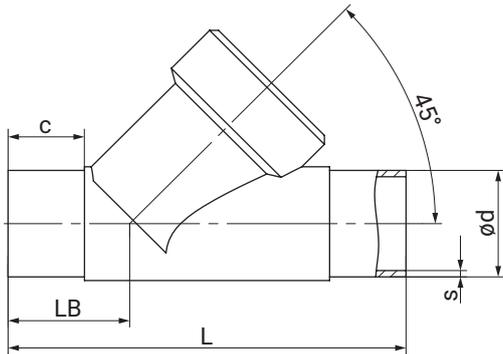
Dimensions in mm

1) Connection type

- Code 0: Spigot DIN
- Code 16: Spigot DIN EN 10357 series B (2014 issue; formerly DIN 11850 series 1)
- Code 17: Spigot EN 10357 series A/DIN 11866 series A, formerly DIN 11850 series 2
- Code 37: Spigot SMS 3008
- Code 59: Spigot ASME BPE/DIN EN 10357 series C (from 2022 issue)/DIN 11866 series C
- Code 60: Spigot ISO 1127/DIN EN 10357 series C (2014 issue)/DIN 11866 series B
- Code 65: Spigot ANSI/ASME B36.19M schedule 40s

2) Valve body material

- Code 34: 1.4435, investment casting

Spigot EN/ISO/ASME/SMS (code 17, 37, 59, 60, 63)**Connection type spigot EN/ISO/ASME (code 17, 60), investment casting material (code 37)¹⁾**

| DN | NPS | c (min) | | ød | | L | LB | s | |
|----|------|-----------------|------|------|------|-------|------|-----------------|-----|
| | | Connection type | | | | | | Connection type | |
| | | 17 | 60 | 17 | 60 | | | 17 | 60 |
| 15 | 1/2" | 18.0 | 18.0 | 19.0 | 21.3 | 100.0 | 33.0 | 1.5 | 1.6 |
| 20 | 3/4" | 18.0 | 18.0 | 23.0 | 26.9 | 108.0 | 33.0 | 1.5 | 1.6 |
| 25 | 1" | 18.0 | 18.0 | 29.0 | 33.7 | 112.0 | 32.0 | 1.5 | 2.0 |
| 32 | 1¼" | 18.0 | 18.0 | 35.0 | 42.4 | 137.0 | 39.0 | 1.5 | 2.0 |
| 40 | 1½" | 19.0 | 18.0 | 41.0 | 48.3 | 146.0 | 40.0 | 1.5 | 2.0 |
| 50 | 2" | 20.0 | 20.0 | 53.0 | 60.3 | 160.0 | 38.0 | 1.5 | 2.0 |
| 65 | 2½" | 52.5 | 47.0 | 70.0 | 76.1 | 290.0 | 96.0 | 2.0 | 2.0 |
| 80 | 3" | 50.0 | 46.5 | 85.0 | 88.9 | 310.0 | 95.0 | 2.0 | 2.3 |

Connection type spigot ASME/SMS (code 37, 59)²⁾, investment casting material (code 37)¹⁾

| DN | NPS | c (min) | | ød | | L | LB | s | |
|----|-----|-----------------|----|------|------|-------|------|-----------------|------|
| | | Connection type | | | | | | Connection type | |
| | | 37 | 59 | 37 | 59 | | | 37 | 59 |
| 65 | 2½" | 58 | 58 | 63.5 | 63.5 | 290.0 | 96.0 | 1.6 | 1.65 |
| 80 | 3" | 58 | 58 | 76.1 | 76.0 | 310.0 | 95.0 | 1.6 | 1.65 |

Dimensions in mm

1) Valve body material

Code 37: 1.4408, investment casting

2) Connection type

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

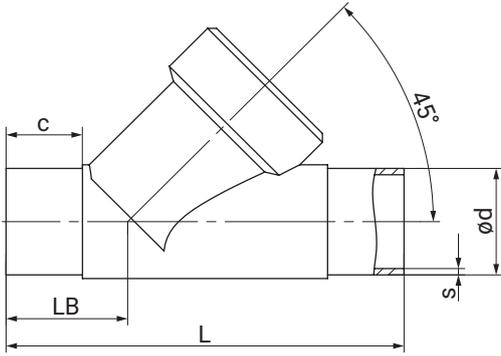
Code 37: Spigot SMS 3008

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

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

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

Spigot EN/ISO/ASME (code 17, 59, 60)



Connection type spigot EN/ISO/ASME (code 17, 59, 60)¹⁾, investment casting material (code C2)²⁾

| DN | NPS | c (min) | | | ød | | | L | LB | s | | |
|----|------|-----------------|-------|-------|------|-------|------|-------|------|-----------------|------|-----|
| | | Connection type | | | | | | | | Connection type | | |
| | | 17 | 59 | 60 | 17 | 59 | 60 | | | 17 | 59 | 60 |
| 15 | 1/2" | 20 | 15 | 20 | 19.0 | 12.70 | 21.3 | 105.0 | 35.5 | 1.5 | 1.65 | 1.6 |
| 20 | 3/4" | 25 | 25 | 25 | 23.0 | 19.05 | 26.9 | 120.0 | 39.0 | 1.5 | 1.65 | 1.6 |
| 25 | 1" | 24 | 24 | 24 | 29.0 | 25.40 | 33.7 | 125.0 | 39.5 | 1.5 | 1.65 | 2.0 |
| 32 | 1¼" | 27 | - | 26.1 | 35.0 | - | 42.4 | 155.0 | 48.0 | 1.5 | - | 2.0 |
| 40 | 1½" | 24 | 23 | 28.9 | 41.0 | 38.10 | 48.3 | 160.0 | 47.0 | 1.5 | 1.65 | 2.0 |
| 50 | 2" | 28.23 | 28.23 | 48 | 53.0 | 50.80 | 60.3 | 180.0 | 48.0 | 1.5 | 1.65 | 2.0 |
| 65 | 2½" | 52.5 | 58 | 52.5 | 70.0 | 63.50 | 76.1 | 290.0 | 96.0 | 2.0 | 1.65 | 2.0 |
| 80 | 3" | 50.2 | 58 | 46.82 | 85.0 | 76.20 | 88.9 | 310.0 | 95.0 | 2.0 | 1.65 | 2.3 |

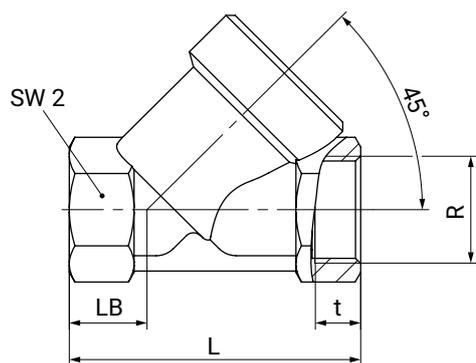
Dimensions in mm

1) Connection type

- Code 17: Spigot EN 10357 series A/DIN 11866 series A, formerly DIN 11850 series 2
- Code 59: Spigot ASME BPE/DIN EN 10357 series C (from 2022 issue)/DIN 11866 series C
- Code 60: Spigot ISO 1127/DIN EN 10357 series C (2014 issue)/DIN 11866 series B

2) Valve body material

- Code C2: 1.4435, investment casting

Threaded socket DIN/NPT body configuration D (code 1, 3C, 3D) actuator size 0**Connection type threaded socket DIN/NPT (code 1, 3C, 3D)¹⁾, investment casting material (code 37)²⁾**

| DN | NPS | L | LB | | | R | | | SW2 | t | | |
|-----------|-------------|------|-----------------|------|------|-----------------|-------|----------|-----|-----------------|------|------|
| | | | Connection type | | | Connection type | | | | Connection type | | |
| | | | 1 | 3C | 3D | 1 | 3C | 3D | | 1 | 3C | 3D |
| 8 | 1/4" | 65.0 | 19.0 | - | 19.0 | G 1/4 | - | 1/4" NPT | 17 | 12.0 | - | 10.1 |
| 10 | 3/8" | 65.0 | 19.0 | 27.0 | 27.0 | G 3/8 | G 3/8 | 3/8" NPT | 24 | 12.0 | 11.4 | 10.4 |
| 15 | 1/2" | 65.0 | 19.0 | - | 27.0 | G 1/2 | - | 1/2" NPT | 24 | 11.4 | - | 13.6 |

Dimensions in mm

1) Connection type

Code 1: Threaded socket DIN ISO 228

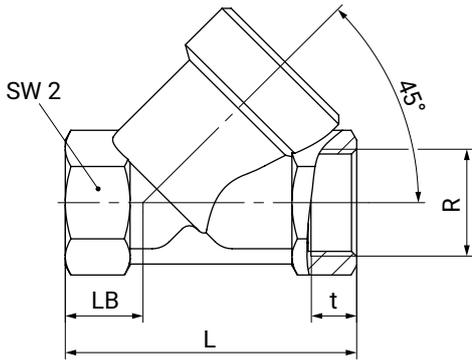
Code 3C: Threaded socket Rc ISO 7-1, EN 10226-2, JIS B 0203, BS 21, end-to-end dimension ETE DIN 3202-4 series M8

Code 3D: Threaded socket NPT, end-to-end dimension ETE DIN 3202-4 series M8

2) Valve body material

Code 37: 1.4408, investment casting

Threaded socket DIN/Rc/NPT body configuration D (code 1, 3C, 3D) actuator size 1, 3



Connection type threaded socket DIN (code 1)¹⁾, investment casting material (code 37)²⁾

| DN | NPS | L | LB | R | SW2 | t |
|----|--------|-------|------|---------|-----|------|
| 15 | 1/2" | 65.0 | 16.5 | G 1/2 | 27 | 15.0 |
| 20 | 3/4" | 75.0 | 17.5 | G 3/4 | 32 | 16.3 |
| 25 | 1" | 90.0 | 24.0 | G 1 | 41 | 19.1 |
| 32 | 1 1/4" | 110.0 | 33.0 | G 1 1/4 | 50 | 21.4 |
| 40 | 1 1/2" | 120.0 | 30.0 | G 1 1/2 | 55 | 21.4 |
| 50 | 2" | 150.0 | 40.0 | G 2 | 70 | 25.7 |
| 65 | 2 1/2" | 190.0 | 46.0 | G 2 1/2 | 85 | 30.2 |
| 80 | 3" | 220.0 | 50.0 | G 3 | 100 | 33.3 |

Connection type threaded socket Rc/NPT (code 3C, 3D)¹⁾, investment casting material (code 37)²⁾

| DN | NPS | L | LB | R | | SW2 | t | |
|----|--------|-------|------|-----------------|------------|-----|-----------------|------|
| | | | | Connection type | | | Connection type | |
| | | | | 3C | 3D | | 3C | 3D |
| 15 | 1/2" | 65.0 | 16.5 | Rc 1/2 | 1/2" NPT | 27 | 15.0 | 13.6 |
| 20 | 3/4" | 75.0 | 17.5 | Rc 3/4 | 3/4" NPT | 32 | 16.3 | 14.1 |
| 25 | 1" | 90.0 | 24.0 | Rc 1 | 1" NPT | 41 | 19.1 | 17.0 |
| 32 | 1 1/4" | 110.0 | 33.0 | Rc 1 1/4 | 1 1/4" NPT | 50 | 21.4 | 17.5 |
| 40 | 1 1/2" | 120.0 | 30.0 | Rc 1 1/2 | 1 1/2" NPT | 55 | 21.4 | 17.3 |
| 50 | 2" | 150.0 | 40.0 | Rc 2 | 2" NPT | 70 | 25.7 | 17.8 |
| 65 | 2 1/2" | 190.0 | 46.0 | Rc 2 1/2 | 2 1/2" NPT | 85 | 30.2 | 23.7 |
| 80 | 3" | 220.0 | 50.0 | Rc 3 | 3" NPT | 100 | 33.3 | 25.8 |

Dimensions in mm

1) Connection type

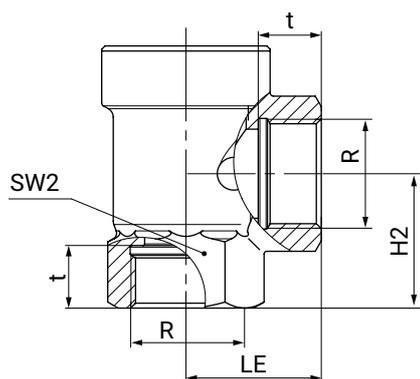
Code 1: Threaded socket DIN ISO 228

Code 3C: Threaded socket Rc ISO 7-1, EN 10226-2, JIS B 0203, BS 21, end-to-end dimension ETE DIN 3202-4 series M8

Code 3D: Threaded socket NPT, end-to-end dimension ETE DIN 3202-4 series M8

2) Valve body material

Code 37: 1.4408, investment casting

Threaded socket DIN/NPT body configuration E (code 1, 3D)**Connection type threaded socket DIN/NPT (code 1, 3D)¹⁾, investment casting material (code 37)²⁾**

| DN | NPS | H2 | LE | SW2 | R | | t | |
|----|--------|------|------|-----|-----------------|------------|-----------------|------|
| | | | | | Connection type | | Connection type | |
| | | | | | 1 | 3D | 1 | 3D |
| 15 | 1/2" | 30.0 | 30.0 | 27 | G 1/2 | 1/2" NPT | 15.0 | 13.6 |
| 20 | 3/4" | 37.5 | 35.0 | 32 | G 3/4 | 3/4" NPT | 16.3 | 14.1 |
| 25 | 1" | 41.0 | 41.0 | 41 | G 1 | 1" NPT | 19.1 | 17.0 |
| 32 | 1 1/4" | 48.0 | 50.0 | 50 | G 1 1/4 | 1 1/4" NPT | 21.4 | 17.5 |
| 40 | 1 1/2" | 55.0 | 50.0 | 55 | G 1 1/2 | 1 1/2" NPT | 21.4 | 17.3 |
| 50 | 2" | 62.0 | 60.0 | 70 | G 2 | 2" NPT | 25.7 | 17.8 |

Dimensions in mm

1) Connection type

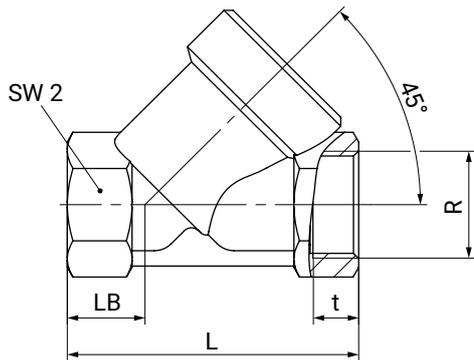
Code 1: Threaded socket DIN ISO 228

Code 3D: Threaded socket NPT, end-to-end dimension ETE DIN 3202-4 series M8

2) Valve body material

Code 37: 1.4408, investment casting

Threaded socket DIN/NPT (code 1, 3D)



Connection type threaded socket DIN/NPT (code 1, 3D)¹⁾, block material (code 9)²⁾

| DN | NPS | L | LB | R | | SW2 | t | |
|----|--------|-------|------|-----------------|------------|-----|-----------------|------|
| | | | | Connection type | | | Connection type | |
| | | | | 1 | 3D | | 1 | 3D |
| 15 | 1/2" | 65.0 | 16.5 | G 1/2 | 1/2" NPT | 27 | 15.0 | 13.6 |
| 20 | 3/4" | 75.0 | 17.5 | G 3/4 | 3/4" NPT | 32 | 16.3 | 14.1 |
| 25 | 1" | 90.0 | 24.0 | G 1 | 1" NPT | 41 | 19.1 | 17.0 |
| 32 | 1 1/4" | 110.0 | 33.0 | G 1 1/4 | 1 1/4" NPT | 50 | 21.4 | 17.5 |
| 40 | 1 1/2" | 120.0 | 30.0 | G 1 1/2 | 1 1/2" NPT | 55 | 21.4 | 17.3 |
| 50 | 2" | 150.0 | 40.0 | G 2 | 2" NPT | 70 | 25.7 | 17.8 |
| 65 | 2 1/2" | 190.0 | 46.0 | G 2 1/2 | 2 1/2" NPT | 85 | 30.2 | 23.7 |
| 80 | 3" | 220.0 | 50.0 | G 3 | 3" NPT | 100 | 33.3 | 25.8 |

Dimensions in mm

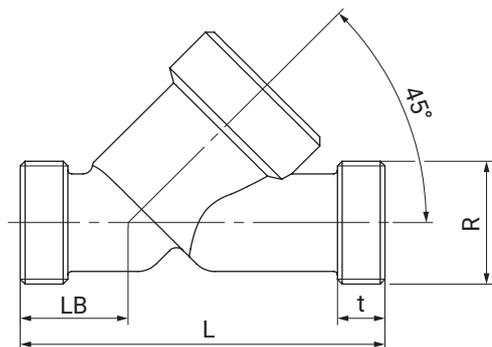
1) **Connection type**

Code 1: Threaded socket DIN ISO 228

Code 3D: Threaded socket NPT, end-to-end dimension ETE DIN 3202-4 series M8

2) **Valve body material**

Code 9: CC499K, cast bronze

Threaded spigot DIN (code 9), actuator size 0**Connection type threaded spigot DIN (code 9)¹⁾, forged material (code 40)²⁾**

| DN | L | LB | R | t |
|----|------|------|-------|------|
| 6 | 65.0 | 19.0 | G 1/4 | 12.0 |

Connection type threaded spigot DIN (code 9)¹⁾, investment casting material (code 37)²⁾

| DN | L | LB | R | t |
|----|------|------|-------|------|
| 8 | 65.0 | 19.0 | G 3/8 | 12.0 |
| 10 | 65.0 | 19.0 | G 1/2 | 12.0 |
| 15 | 65.0 | 19.0 | G 3/4 | 12.0 |

Dimensions in mm

1) Connection type

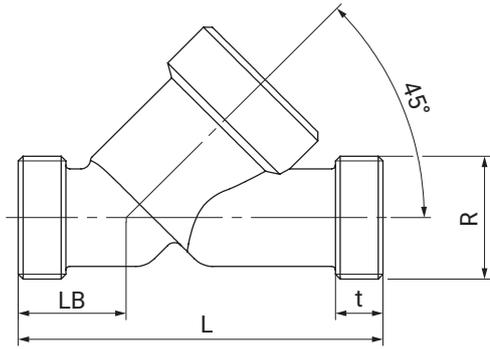
Code 9: Threaded spigot DIN ISO 228

2) Valve body material

Code 37: 1.4408, investment casting

Code 40: 1.4435 (F316L), forged body

Threaded spigot DIN (code 9) actuator size 1, 3



Connection type threaded spigot DIN (code 9)¹⁾, block material (code 9)²⁾

| DN | L | LB | R | t |
|----|-------|------|-------|------|
| 15 | 90.0 | 25.0 | G 3/4 | 12.0 |
| 20 | 110.0 | 30.0 | G 1 | 15.0 |
| 25 | 118.0 | 30.0 | G 1¼ | 15.0 |
| 40 | 140.0 | 35.0 | G 1¾ | 13.0 |
| 50 | 175.0 | 50.0 | G 2¾ | 15.0 |
| 65 | 216.0 | 52.0 | G 3 | 15.0 |
| 80 | 254.0 | 64.0 | G 3½ | 18.0 |

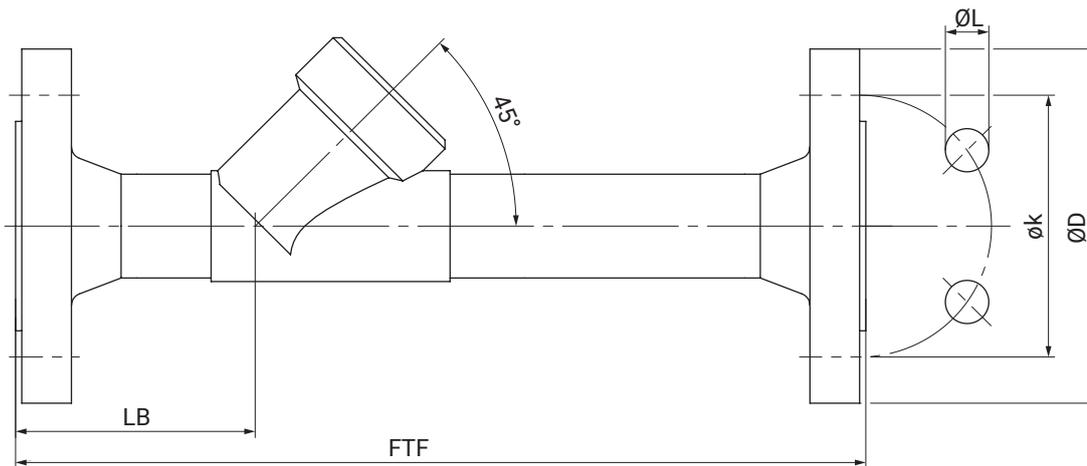
Connection type threaded spigot DIN (code 9)¹⁾, investment casting material (code 37)³⁾

| DN | L | LB | R | t |
|----|-------|------|-------|------|
| 15 | 90.0 | 25.0 | G 3/4 | 12.0 |
| 20 | 110.0 | 30.0 | G 1 | 15.0 |
| 25 | 118.0 | 30.0 | G 1¼ | 15.0 |
| 32 | 130.0 | 38.0 | G 1½ | 13.0 |
| 40 | 140.0 | 35.0 | G 1¾ | 13.0 |
| 50 | 175.0 | 50.0 | G 2¾ | 15.0 |
| 65 | 216.0 | 52.0 | G 3 | 15.0 |
| 80 | 254.0 | 64.0 | G 3½ | 18.0 |

Dimensions in mm

- 1) **Connection type**
Code 9: Threaded spigot DIN ISO 228
- 2) **Valve body material**
Code 9: CC499K, cast bronze
- 3) **Valve body material**
Code 9: CC499K, cast bronze
Code 37: 1.4408, investment casting

Flange, special length EN/ANSI (code 13, 47)



Connection type flange, special length EN/ANSI (code 13, 47)¹⁾, investment casting material (code 34)²⁾

| DN | NPS | ØD | | FTF | øk | | ØL | | LB | n |
|----|--------|-----------------|-------|-------|-----------------|-------|-----------------|------|------|---|
| | | Connection type | | | Connection type | | Connection type | | | |
| | | 13 | 47 | | 13 | 47 | 13 | 47 | | |
| 15 | 1/2" | 95.0 | 89.0 | 210.0 | 65.0 | 60.5 | 14.0 | 15.7 | 72.0 | 4 |
| 20 | 3/4" | 105.0 | 98.6 | 280.0 | 75.0 | 69.8 | 14.0 | 15.7 | 78.0 | 4 |
| 25 | 1" | 115.0 | 108.0 | 280.0 | 85.0 | 79.2 | 14.0 | 15.7 | 77.0 | 4 |
| 32 | 1 1/4" | 140.0 | 117.3 | 310.0 | 100.0 | 88.9 | 18.0 | 15.7 | 89.0 | 4 |
| 40 | 1 1/2" | 150.0 | 127.0 | 320.0 | 110.0 | 98.6 | 18.0 | 15.7 | 91.0 | 4 |
| 50 | 2" | 165.0 | 152.4 | 330.0 | 125.0 | 120.7 | 18.0 | 19.1 | 95.0 | 4 |

Dimensions in mm

n = number of bolts

1) Connection type

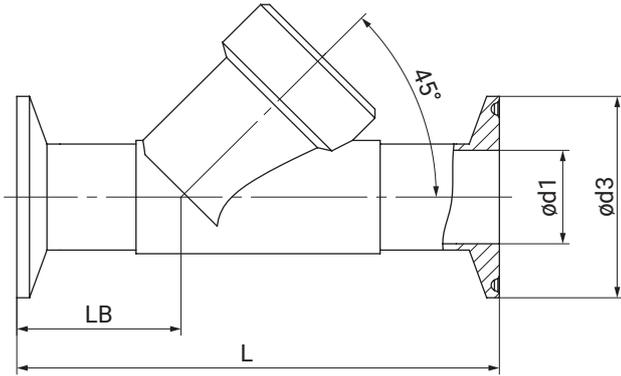
Code 13: Flange EN 1092, PN 25, form B

Code 47: Flange ANSI Class 150 RF

2) Valve body material

Code 34: 1.4435, investment casting

Clamp DIN/ASME (code 80, 82, 86, 88)



Connection type clamp DIN/ASME (code 80, 82, 86, 88)¹⁾, investment casting material (code 34)²⁾

| DN | NPS | ød1 | | | | ød3 | | | | L | | | | LB | | | |
|----|--------|-----------------|------|------|-------|-----------------|------|------|------|-----------------|-------|-------|-------|-----------------|------|------|------|
| | | Connection type | | | | Connection type | | | | Connection type | | | | Connection type | | | |
| | | 80 | 82 | 86 | 88 | 80 | 82 | 86 | 88 | 80 | 82 | 86 | 88 | 80 | 82 | 86 | 88 |
| 15 | 1/2" | 9.40 | 18.1 | 16.0 | 9.40 | 25.0 | 50.5 | 34.0 | 25.0 | 101.6 | 130.0 | 130.0 | 130.0 | 33.5 | 47.5 | 47.5 | 47.5 |
| 20 | 3/4" | 15.75 | 23.7 | 20.0 | 15.75 | 25.0 | 50.5 | 34.0 | 25.0 | 101.6 | 150.0 | 150.0 | 150.0 | 30.0 | 54.0 | 54.0 | 54.0 |
| 25 | 1" | 22.10 | 29.7 | 26.0 | 22.10 | 50.5 | 50.5 | 50.5 | 50.5 | 114.3 | 160.0 | 160.0 | 160.0 | 33.0 | 56.0 | 56.0 | 56.0 |
| 32 | 1 1/4" | - | 38.4 | 32.0 | - | - | 64.0 | 50.5 | - | - | 180.0 | 180.0 | - | - | 62.0 | 62.0 | - |
| 40 | 1 1/2" | 34.80 | 44.3 | 38.0 | 34.80 | 50.5 | 64.0 | 50.5 | 50.5 | 139.7 | 200.0 | 200.0 | 200.0 | 37.0 | 67.0 | 67.0 | 67.0 |
| 50 | 2" | 47.50 | 56.3 | 50.0 | 47.50 | 64.0 | 77.5 | 64.0 | 64.0 | 158.8 | 230.0 | 230.0 | 230.0 | 36.5 | 73.0 | 73.0 | 73.0 |

Dimensions in mm

1) **Connection type**

- Code 80: Clamp ASME BPE, face-to-face dimension FTF ASME BPE
- Code 82: Clamp DIN 32676 series B, face-to-face dimension FTF EN 558 series 1
- Code 86: Clamp DIN 32676 series A, face-to-face dimension FTF EN 558 series 1
- Code 88: Clamp ASME BPE, for pipe ASME BPE, face-to-face dimension FTF EN 558 series 1

2) **Valve body material**

- Code 34: 1.4435, investment casting

Accessories



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.

The product cannot be ordered later. It must be selected as order option "Control module" (see order data) when ordering.



GEMÜ 1235

Electrical position indicator

The GEMÜ 1235 electrical position indicator is suitable for installation on pneumatically operated linear actuators and, with specific mounting parts, likewise suitable for pneumatically operated quarter turn actuators as well as further selected actuator versions. 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 product cannot be ordered later. "Control module" must be selected as an ordering option when ordering (see order data).



GEMÜ 1218

Connector

GEMÜ 1218 is a connector (cable socket/cable plug), 7-pin. Straight or 90° angled plug type.

| GEMÜ 1218 Binder connector | | | |
|--|---------------------------------|--|------------------------|
| Connection X1 – supply voltage, relay outputs | | | |
| Binder plug | 468/eSy series mating connector | Terminal compartment/ screws, 7-pin | 88220649 |
| | | Terminal compartment/ screws, 7-pin, 90° | 88377714 ¹⁾ |
| | | Terminal compartment/ screws, 7-pin, 90°, fitted with a 2 metre cable set | 88770522 |

1) provided in the scope of delivery



GEMÜ 1573

Switching power supply unit

The GEMÜ 1573 switching power supply unit converts unstable input voltages from 100 to 240 V AC into a continuous DC voltage. It can be used as an accessory for valves with motorized actuators e. g. GEMÜ eSyLite, eSyStep und eSyDrive and for additional devices with a 24 V DC power supply. Different power levels, output currents and a 48 V DC version for servoDrive actuators are available.

| GEMÜ 1573 switching power supply unit | | | |
|---------------------------------------|----------------|----------------|-------------|
| Input voltage | Output voltage | Output current | Item number |



GEMÜ 1573

Switching power supply unit

The GEMÜ 1573 switching power supply unit converts unstable input voltages from 100 to 240 V AC into a continuous DC voltage. It can be used as an accessory for valves with motorized actuators e. g. GEMÜ eSyLite, eSyStep und eSyDrive and for additional devices with a 24 V DC power supply. Different power levels, output currents and a 48 V DC version for servoDrive actuators are available.

| GEMÜ 1573 switching power supply unit | | | |
|---------------------------------------|---------|------|----------|
| 100 - 240 V AC | 24 V DC | 5 A | 88660400 |
| | | 10 A | 88660401 |



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