

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 GEMÜ 529 eSyLite 2/2-way angle seat globe valve is motorized. It is available as an Open/Close version. The valve spindle is sealed by a self-adjusting gland packing providing low-maintenance and reliable valve spindle sealing even after a long service life. A wiper ring fitted in front of the gland packing protects the seal against contamination and damage. An integrated optical position indicator is standard. The self-locking actuator holds its position in a stable manner in the event of power supply failure.

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

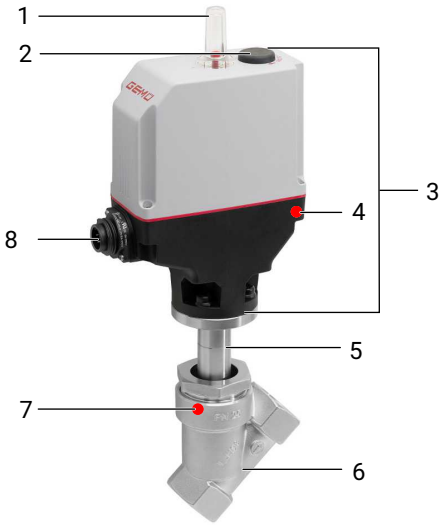


further information
webcode: GW-529



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 34 ²⁾			
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.
For actuator size 0 (**AG0**), the ambient temperature is 0 to 60 °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
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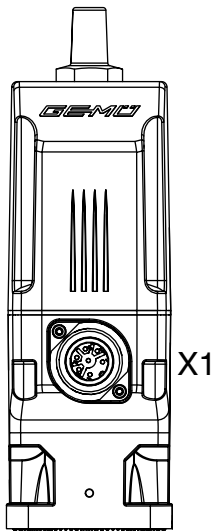
Charging time:	approx. 13 min
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Service life:	For actuator size 1 (AG1) and actuator size 3 (AG3): Guide value for an ambient temperature of 25 °C, approx. three years For actuator size 0 (AG0):
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Ambient temperature of actuator AG0	Emergency power supply module service life
60 °C	Approx. 2.5 years
50 °C	Approx. 6 years
40 °C and lower	Over 10 years

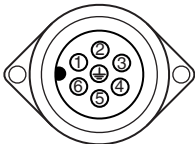
Electrical connection

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
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

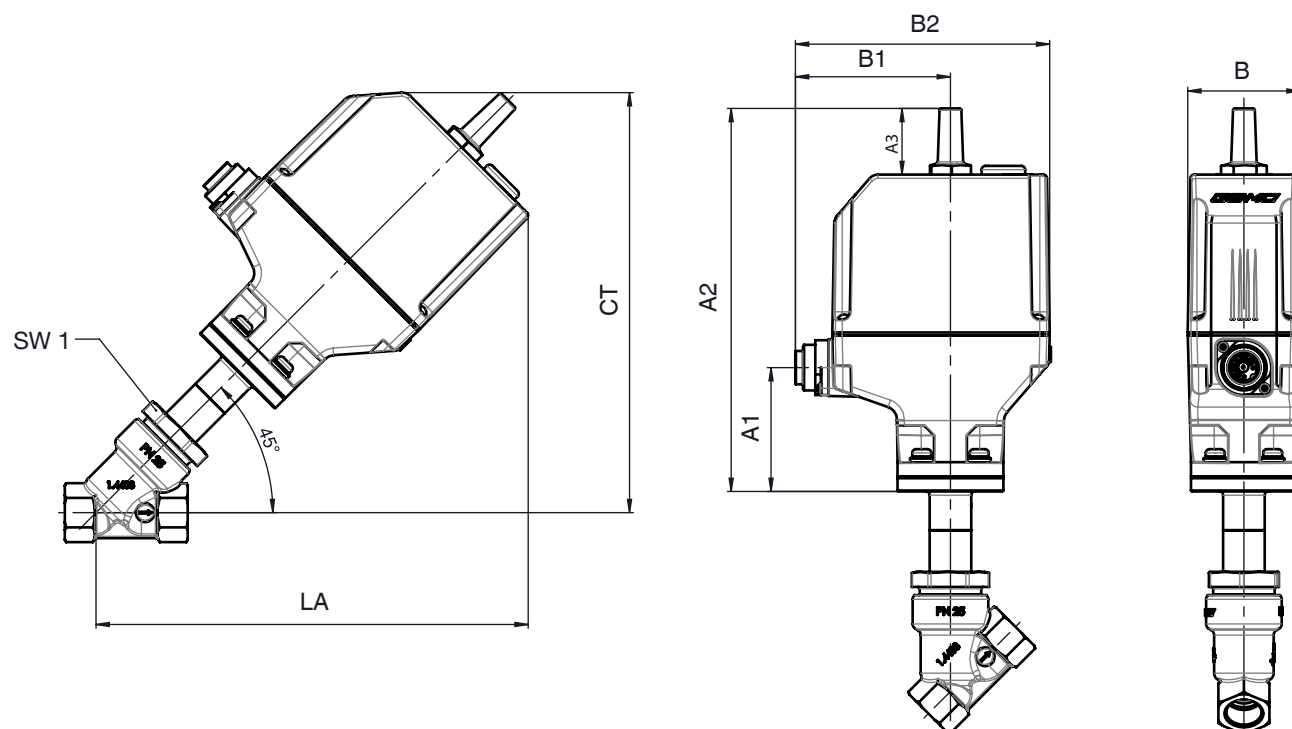
Preferred direction if both digital inputs are present
for device version 01
(see operating instructions – Product label)

A2, Y2, Z2

CLOSED

Dimensions

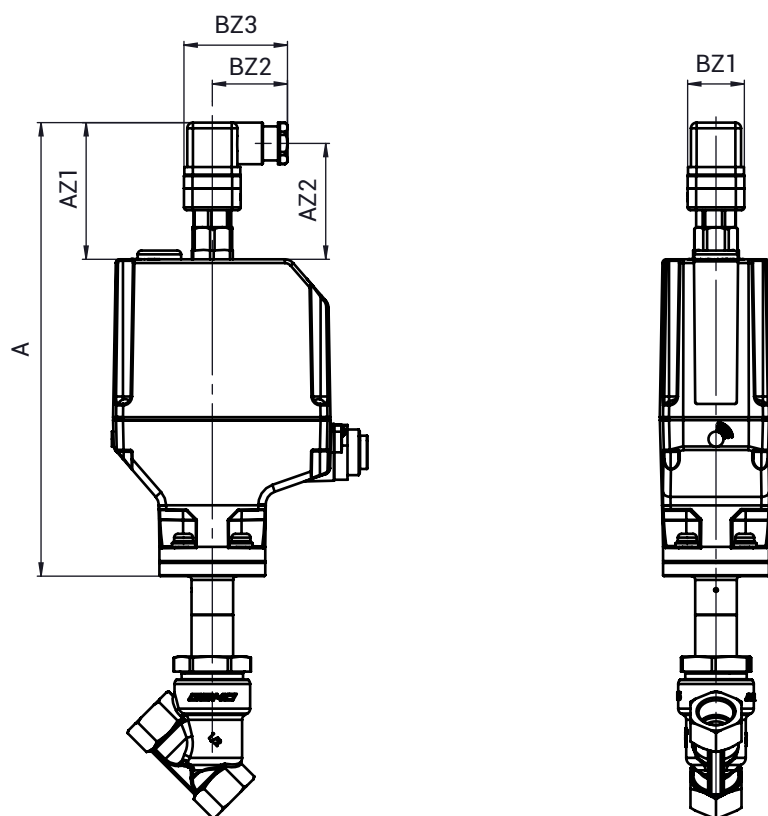
Installation and actuator dimensions of valve with 2/2-way body without electrical position indicator



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
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

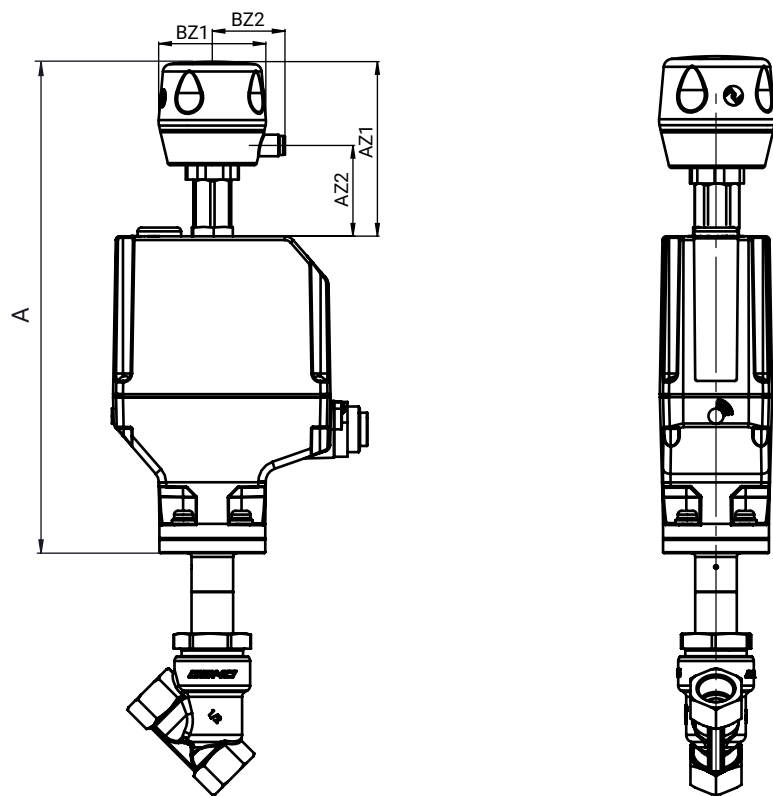
Installation and actuator dimensions of valve with 2/2-way body with 1215 electrical position indicator



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

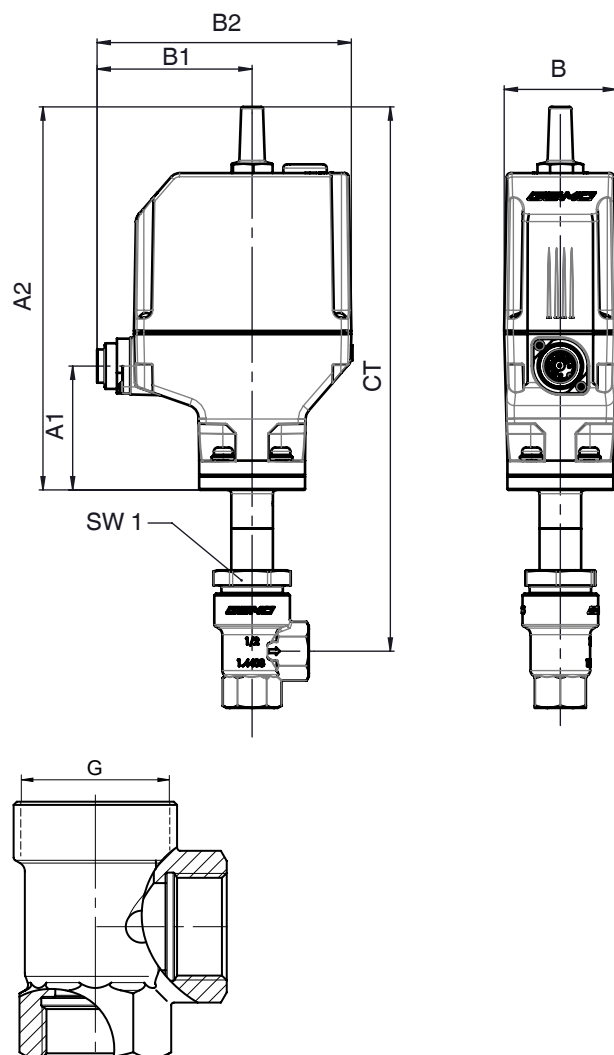
Installation and actuator dimensions of valve with 2/2-way body with 1235 electrical position indicator



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

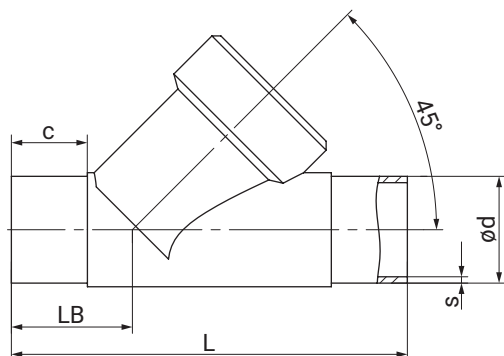


DN	Actuator version	A1	A2	B	B1	B2	CT	G	SW1
15	1A	65.5	203.0	59.5	82.0	134.5	288.0	M35x1.5	36
20	1A	65.5	203.0	59.5	82.0	134.5	291.0	M40x1.5	41
25	1A	65.5	203.0	59.5	82.0	134.5	295.0	M45x1.5	46
32	1A	65.5	203.0	59.5	82.0	134.5	298.0	M52x1.5	55
40	1A	65.5	203.0	59.5	82.0	134.5	311.0	M60x2	60
40	3A	72.0	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⁾

Connection type: Spigot DN/EN/ISO/ASME (code 0, 16, 17, 59, 60) ; forged material (code 40)																		
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	-	-	-	20	8.0	-	-	-	-	80.0	26.5	1.0	-	-	-	-
8	1/4"	20	-	20	10	-	10.0	-	-	-	13.5	80.0	26.5	1.0	-	-	-	1.6
10	3/8"	-	20	20	20	-	-	12.0	13.0	9.53	-	80.0	26.5	-	1.0	1.5	0.89	-
15	1/2"	-	-	-	20	-	-	-	-	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

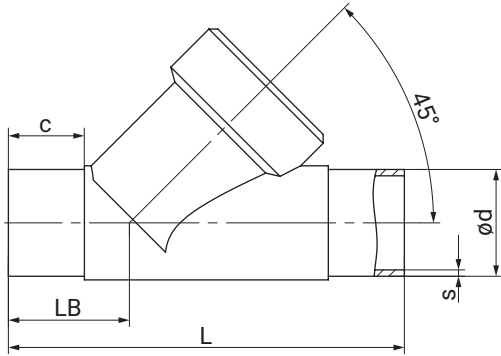
Code 59: Spigot ASME BPE/DIN EN 10357 series C (from 2022 issue)/DIN 11866 series C

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	1¼"	-	26	27	29	-	34.0	35.0	42.4	155.0	48.0	-	1.0	1.5	2.0
40	1½"	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	1¼"	-	-	-	-	-	42.4	155.0	48.0	-	-	3.56
40	1½"	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

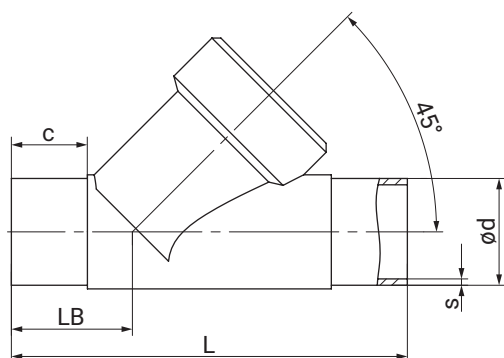
Code 59: Spigot ASME BPE/DIN EN 10357 series C (from 2022 issue)/DIN 11866 series C

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

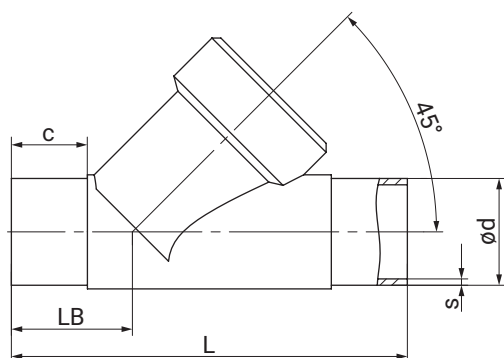
Code 37: Spigot SMS 3008

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⁾

Connection type spigot EN/ISO/ASME (code 17, 59, 60) , investment casting material (code 62)												
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

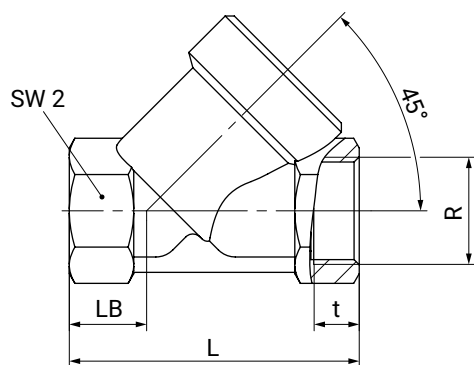
Dimensions in mm

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⁾

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

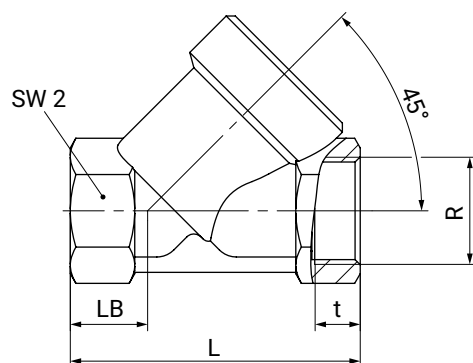
Code 1: Threaded socket DIN ISO 228

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⁾

Connection type threaded socket Rc/NPT (code 3C, 3D) , investment casting material (code 3T)								
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	1¼"	110.0	33.0	Rc 1¼	1¼" NPT	50	21.4	17.5
40	1½"	120.0	30.0	Rc 1½	1½" NPT	55	21.4	17.3
50	2"	150.0	40.0	Rc 2	2" NPT	70	25.7	17.8
65	2½"	190.0	46.0	Rc 2½	2½" 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

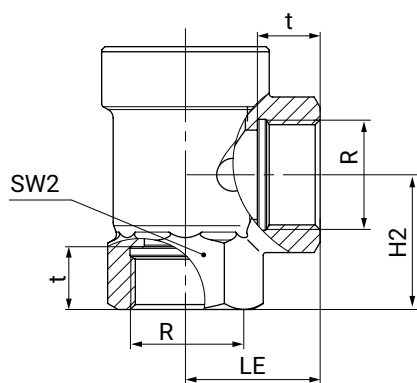
Code 1: Threaded socket DIN ISO 228

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

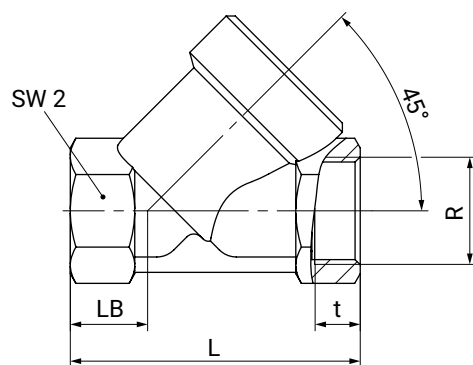
Code 1: Threaded socket DIN ISO 228

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	1¼"	110.0	33.0	G 1¼	1¼" NPT	50	21.4	17.5
40	1½"	120.0	30.0	G 1½	1½" NPT	55	21.4	17.3
50	2"	150.0	40.0	G 2	2" NPT	70	25.7	17.8
65	2½"	190.0	46.0	G 2½	2½" NPT	85	30.2	23.7
80	3"	220.0	50.0	G 3	3" NPT	100	33.3	25.8

Dimensions in mm

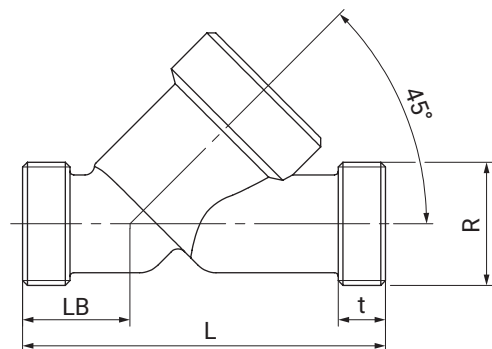
1) Connection type

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

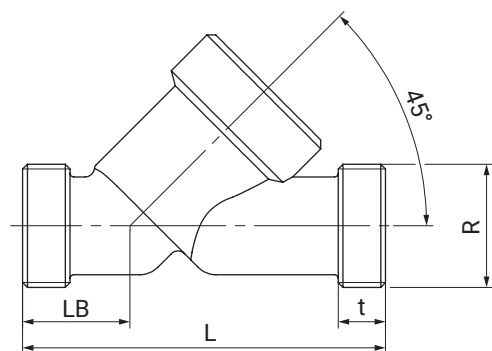
Code 9: Threaded spigot DIN ISO 228

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⁾

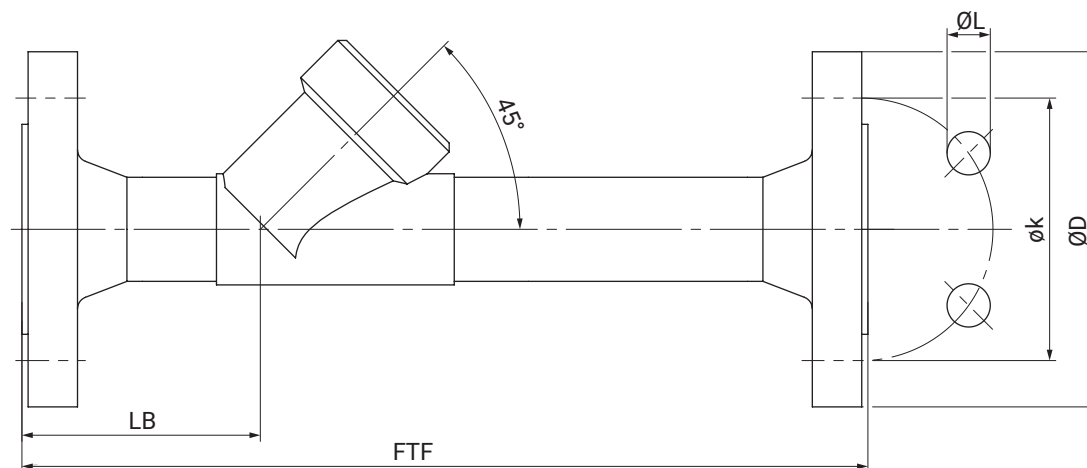
DN	L	LB	R	t
15	90.0	25.0	G 3/4	12.0
20	110.0	30.0	G 1	15.0
25	118.0	30.0	G 1¼	15.0
40	140.0	35.0	G 1¾	13.0
50	175.0	50.0	G 2⅜	15.0
65	216.0	52.0	G 3	15.0
80	254.0	64.0	G 3½	18.0

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 2⅜	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	1¼"	140.0	117.3	310.0	100.0	88.9	18.0	15.7	89.0	4
40	1½"	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

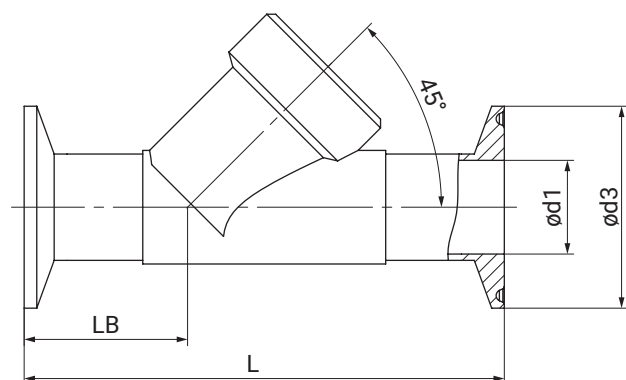
Code 13: Flange EN 1092, PN 25, form B

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**

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



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