

GEMÜ 543 eSyStep

Motorized angle seat globe valve



Features

- CIP/SIP capable
- Open/close function or with integrated positioner
- Parameterisable and controllable via IO-Link
- Linear or modified equal-percentage control characteristics
- On-site or remote end position programming via programming input
- Various functions integrated (e.g. feedback, stroke limiter, etc.)
- Suitable for vacuum up to 20 mbar (a)

Description

The GEMÜ 543 eSyStep is an electrically operated 2/2-way angle seat globe valve. The eSyStep electric actuator is available as On/Off actuator or with integrated positioner. 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 integral optical and electrical position indicator is standard. The self-locking actuator holds its position in a stable manner when idle and in the event of power supply failure.

Technical specifications

- **Media temperature:** -40 to 180 °C
- **Ambient temperature:** 0 Up to 60 °C
- **Operating pressure :** 0 Up to 25 bar
- **Nominal sizes:** DN 6 to 50
- **Body configurations:** 2/2-way body | Angle valve body
- **Connection types:** Clamp | Flange | Spigot | Threaded connection
- **Connection standards:** ANSI | ASME | BS | DIN | EN | ISO | NPT | SMS
- **Body materials:** 1.4408, investment casting material | 1.4435 (316L), forged 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:** IP 65
- **Conformities:** EAC | FDA | Oxygen | Regulation (EC) No. 1935/2004 | TA Luft (German Clean Air Act)

Technical data depends on the respective configuration

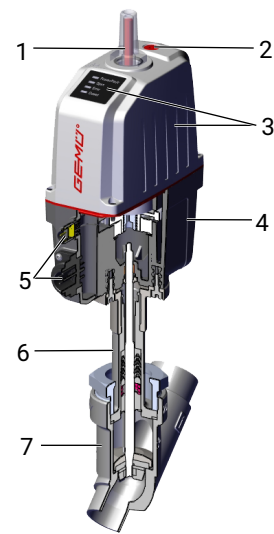


further information
webcode: GW-543



Product description

Construction



Item	Name	Materials
1	Optical position indicator	PA 12
2	Manual override	
3	Actuator top with LED display	Reinforced polyamide
4	Actuator base	Reinforced polyamide
5	Electrical connections	
6	Distance piece with leak detection hole	1.4305 / 1.4408
7	Valve body	1.4435 investment casting 1.4408 (investment casting) 1.4435 (F316L) forged body, cast bronze

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

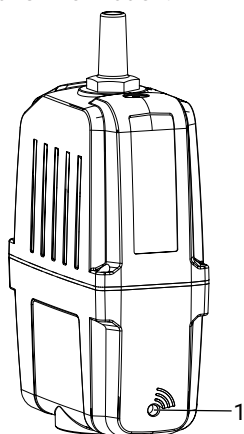
Ordering

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

In the corresponding design with CONEXO, this product has an RFID chip (1) for electronic identification purposes. The position of the RFID chip can be seen below. The CONEXO pen helps read out information stored in the RFID chips. The CONEXO app or CONEXO portal is required to display this information.

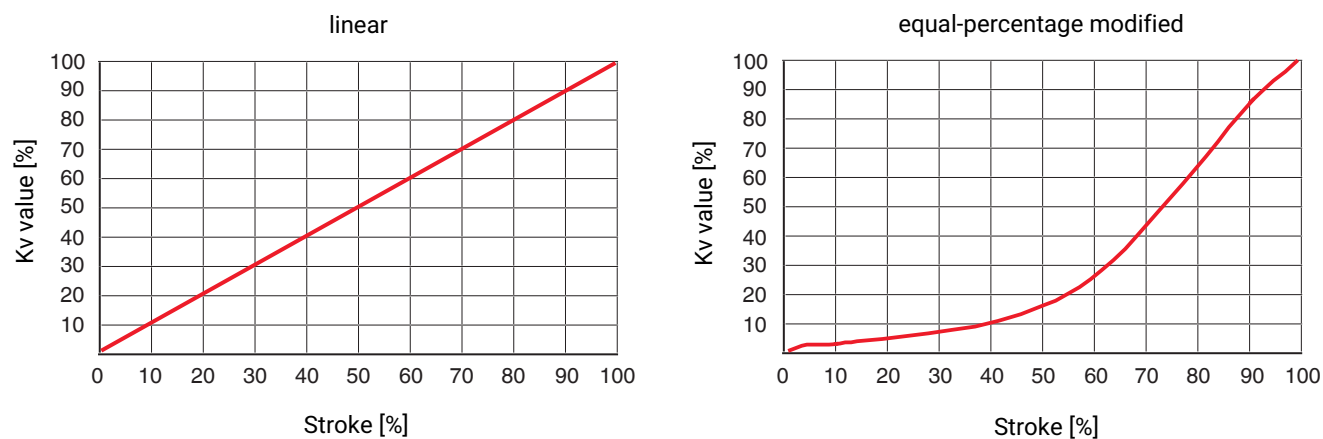
For electronic identification purposes, each replaceable component contained in the product is equipped with an RFID chip (1). Where you can find the RFID chip differs from product to product.

The CONEXO pen helps read out information stored in these RFID chips. The CONEXO app or CONEXO portal is required to view this information.



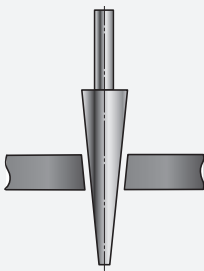
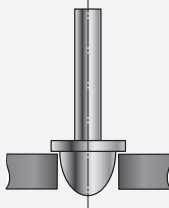
Actuator RFID chip

Kv value diagram



The diagram shows the approximative curve of the Kv value characteristic. The characteristic may deviate depending on valve body, nominal size, regulating cone and valve stroke.

Regulating needle / Regulating cone

Regulating needle	Regulating cone
	
Regulating needle: RAxxx – RCxxx (reduced valve seat)	Regulating cone: DN 15 - 50

Overview of available functions

Function	Control module – OPEN/CLOSE control (Code AE, A5, A6)	Control module – positioner (Code S0, S5, S6)
OPEN/CLOSE control	X	X
Positioner	-	X
Manual override	X	X
Optical status and position indicator	X	X
On-site initialization	X	X
Deactivation of on-site initialization	X	X
Initialization via digital input	X	X
Initialization via IO-Link	X	X
Feedback for operating mode	X	X
Actuation OPEN	X	X
Actuation CLOSED	X	X
Actuation, analogue	-	X
Position feedback OPEN	X	X
Position feedback CLOSED	X	X
Position feedback analogue	-	X
Location function	X	X
Error output	X	X
Actuating speed adjustable	X	-
Actuating force adjustable	X	X
Inversion of LED colours	X	X
Cycle counter	X	-
Error counter	X	-
Operating time determination	X	X
Switch point setting (tolerance)	X	X
Inversion input/output logic	X	X
Adjustable error action	X	X
Safe/On	X	X
Direction reversal	-	X
Open tight	-	X
Close tight	-	X
Split range	-	X
Stroke limiter/seal adjuster	-	X
Operating range	-	X

Availability

Availability of valve bodies

Spigot, actuator size 0E

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

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, actuator size 0A, 1A

DN	Connection type code ¹⁾										
	0	16	17			37	59		60		
	Material code ²⁾										
	34	34	34	37	C2	34	34	C2	34	37	C2
8	-	-	-	-	-	-	-	-	-	-	X
10	-	X	X	-	X	-	-	-	X	-	X
15	X	X	X	X	X	-	X	X	X	X	X
20	X	X	X	X	X	-	X	X	X	X	X
25	X	X	X	X	X	X	X	X	X	X	X
32	-	X	X	X	X	-	-	-	X	X	X
40	X	X	X	X	X	X	X	X	X	X	X
50	X	X	X	X	X	X	X	X	X	X	X

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

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 0E

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

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

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, actuator size 0A, 1A

DN	Connection type code ¹⁾			
	1	3C	3D	9
	Material code 37 ²⁾			
	Body configuration code D ³⁾			
10	X	-	-	-
15	X	X	X	X
20	X	X	X	X
25	X	X	X	X
32	X	X	X	X
40	X	X	X	X
50	X	X	X	X

DN	Connection type Code ¹⁾	
	1	3D
	Material Code 37 ²⁾	
	Housing shape Code E ³⁾	
10	-	-
15	X	X
20	X	X
25	X	X
32	X	X
40	X	X
50	X	X

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

3) Housing configuration

Code D: 2/2-way body

Code E: Angle valve body

Flange

DN	Connection type code ¹⁾		
	10	13	47
	Material code ²⁾		
	37	34	34
15	X	X	X
20	X	X	X
25	X	X	X
32	-	X	X
40	-	X	X
50	-	X	X

1) **Connection type**

Code 10: Flange EN 1092, PN 25, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1

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

Code 37: 1.4408, investment casting

Clamp

DN	Connection type code ¹⁾						
	80	82	82	86	86	88	88
	Material code ²⁾						
	34	34	C2	34	C2	34	C2
8	-	-	X	-	-	-	-
10	-	-	X	-	X	-	-
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	-	-
40	X	X	X	X	X	X	X
50	X	X	X	X	X	X	X

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

Code C2: 1.4435, investment casting

Product compliance

	Approved designs		
	Valve body material	Seat seal	Type of design
Food			

	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 (F316L), forged body (code 40) 1.4435, investment casting (code C2)	PTFE (code 5) PTFE, glass fibre reinforced (code 5G) 1.4404 (code 10)	Spindle seal PTFE-PTFE (code 2013)

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, eSyStep	543

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

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
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, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1	10
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
Clamp DIN 32676 series B, face-to-face dimension FTF EN 558 series 1	82

4 Connection type	Code
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
Forged material	
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, additional end position indicators	AE
OPEN/CLOSE drive, additional end position feedback configured for emergency power supply module (NC)	A5
OPEN/CLOSE drive, additional end position feedback configured for emergency power supply module (NO)	A6
Positioner	S0
Positioner, configured for emergency power supply module (NC)	S5
Positioner configured for emergency power supply module (NO)	S6

9 Regulating cone	Code
Without	
Please find the number of the optional regulating cone (R-No.) for the linear or equal-percentage modified regulating cone in the Kv value table.	R....

10 Type of design	Code
Without	
Ra ≤ 0.6 µm (25 µinch) for media wetted surfaces, in accordance with ASME BPE SF2 and SF3, mechanically polished internal	1903
Ra ≤ 0.8 µm (30 µinch) for media wetted surfaces, in accordance with DIN 11866 H3, mechanically polished internal	1904
Ra ≤ 0.4 µm (15 µinch) for media wetted surfaces, in accordance with DIN 11866 H4, ASME BPE SF1, mechanically polished internal	1909

10 Type of design	Code
PTFE-PTFE spindle seal	2013
11 Actuator version	Code
Actuator size 0	0A
Actuator size 0 Seat diameter 9 mm	0E
Actuator size 1	1A
12 Special version	Code
Without	

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

Order example

Ordering option	Code	Description
1 Type	543	Angle seat globe valve, motorized, eSyStep
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	S0	Positioner
9 Regulating cone	R....	Please find the number of the optional regulating cone (R-No.) for the linear or equal-percentage modified regulating cone in the Kv value table.
10 Type of design		Without
11 Actuator version	0A	Actuator size 0
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: -40 – 180 °C
For material code 37 (and 34 only with 3.2. certificate) + K-no. 2013: -40 to 180 °C

Ambient temperature: 0 – 60 °C
depending on version and/or operating parameters (see chapter Duty cycle and service life)

Pressure

Operating pressure:

DN	Actuator version 0A	Actuator version 0E	Actuator version 1A	
			Open/Close valve (code A0)	Control valve (code S0)
6	-	25	-	-
8	-	25	-	-
10	-	25	-	-
15	15	25	25	25
20	10	-	25	15
25	6	-	23	10
32	-	-	15	6.5
40	-	-	9	4
50	-	-	6	1

Pressures in bar

All pressures are gauge pressures.

For max. operating pressures the pressure / temperature correlation must be observed.

Higher operating pressures on request

Leakage rate:

Open/Close valve

Seat seal	Standard	Test procedure	Leakage rate	Test medium
Metal	DIN EN 12266-1	P12	F	Air
EPDM, FKM, PTFE	DIN EN 12266-1	P12	A	Air

Control valve

Seat seal	Standard	Test procedure	Leakage rate	Test medium
Metal	DIN EN 60534-4	1	IV	Air
PTFE, FKM, EPDM	DIN EN 60534-4	1	VI	Air

Pressure/temperature correlation:

Connection types code	Material code ¹⁾	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) **Valve body material**

Code 34: 1.4435, investment casting

Code 37: 1.4408, investment casting

Code C2: 1.4435, investment casting

Kv values:
Open/Close valve

DN	Butt weld spigot DIN 11850 actuator version 0E	Butt weld spigot DIN 11866	Threaded socket DIN ISO 228
6	1.6	-	-
8	1.8	2.2	-
10	2.4	4.5	4.5
15	2.4	5.5	5.4
20	-	11.7	10.0
25	-	20.5	15.2
32	-	33.0	23.0
40	-	51.0	41.0
50	-	61.0	68.0

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.

Standard regulating cone (DIN)

DN	Kv values	Operating pressure	Actuator version	linear	equal percentage
15	5.0	15.0	0A	RS400	RS420
	5.0	25.0	1A	RS401	RS421
20	10.0	10.0	0A	RS402	RS422
	10.0	15.0	1A	RS403	RS423
25	15.0	6.0	0A	RS404	RS424
	15.0	10.0	1A	RS405	RS425
32	24.0	6.5	1A	RS406	RS426
40	38.0	4.0	1A	RS407	RS427
50	50.0	1.0	1A	RS409	RS429

Pressures in bar

Kv values in m³/h

Standard regulating cone (ANSI)

DN	Kv values	Operating pressure	Actuator version	linear	equal percentage
15	2.7	15.0	0A	RS440	RS460
	2.7	25.0	1A	RS441	RS461
20	6.3	10.0	0A	RS442	RS462
	6.3	15.0	1A	RS443	RS463
25	13.3	6.0	0A	RS444	RS464
	13.3	10.0	1A	RS445	RS465
40	35.6	4.0	1A	RS446	RS466
50	50.0	1.0	1A	RS448	RS468

Pressures in bar

Kv values in m³/h

Kv values:

Standard regulating cone with reduced seat
Valve body material 1.4435 (code 34, C2), 1.4408 (code 37)

DN	Operating pressure [bar]		Kv values	Seat seal code	R-Number	
	0A	1A			linear	equal-percentage
15	25	-	0.1	10	RA205	RA409
	25	-	0.16	10	RB213	RA410
	25	-	0.25	10	RB214	RB409
	25	-	0.4	10	RB215	RB410
	25	-	0.63	10	RC209	RC410
	25	-	1	10	RC210	RC411
	25	-	1.6	5, 5G	RD211	RD411
	25 ¹⁾	-	2.5	5, 5G	RE213	RE413
20	25	-	1.6	5, 5G	RD212	RD412
	25	-	2.5	5, 5G	RE214	RE414
	25	-	4	5, 5G	RF215	RF415
	15 ¹⁾	-	6.3	5, 5G	RG217	RG417
25	25	-	2.5	5, 5G	RE215	RE415
	25	-	4	5, 5G	RF216	RF416
	15	-	6.3	5, 5G	RG218	RG418
	10 ¹⁾	-	10	5, 5G	RH217	RH417
32	25.0	-	4	5, 5G	RF217	RF417
	15.0	-	6.3	5, 5G	RG219	RG419
	10.0	-	10	5, 5G	RH218	RH418
	6.0	-	16	5, 5G	RJ213	RJ413
40	15.0	-	6.3	5, 5G	RG220	RG420
	10.0	-	10	5, 5G	RH219	RH419
	6.0	-	16	5, 5G	RJ214	RJ414
	-	6.5	25	5, 5G	RK209	RK409
50	10.0	-	10	5, 5G	RH220	RH420
	6.0	-	16	5, 5G	RJ215	RJ415
	-	6.5	25	5, 5G	RK210	RK410
	-	4.0	40	5, 5G	RM205	RM405

1) not for connection codes 37, 59, 80, 88

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 compliance

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: Actuator size 0 Max. 3 mm/s
Actuator size 1 max. 2.5 mm/s

Weight: **Actuator**
Actuator size 0 (code 0A) 0.95 kg
Actuator size 1 (code 1A) 1.88 kg
Actuator size 0 (Code 0A / 0E) 0.95 kg
Actuator size 1 (Code 1A) 1.88 kg

Valve body

DN	Spigot K514	Threaded socket	Threaded spigot	Flange K514	Clamp
Connection types code					
	0, 16, 17, 37, 59, 60	1, 3D, 3C	9	8, 10, 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	0.16	0.25	0.14	-	-
10	0.25	0.25	-	-	-
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

Weights in kg

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

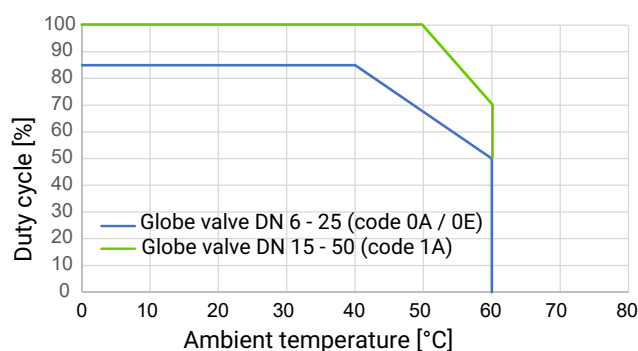
Vibration: 5g acc. to IEC 60068-2-6 Test Fc

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

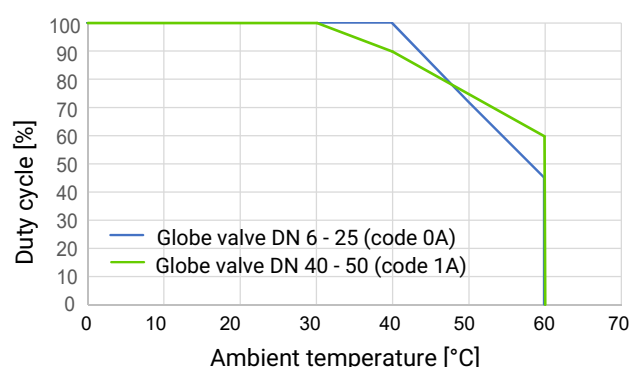
Actuator duty cycle and service life

Service life: **Control operation** - Class C according to EN 15714-2 (1,800,000 starts and 1200 starts per hour).
Open/Close duty - At least 500,000 switching cycles at room temperature and permissible duty cycle.

Duty cycle: Control module Open/Close control (code AE, A5, A6)
 Duty cycle with full valve lift and playing time 10 minutes.



Control module Positioner (code S0, S5, S6), Open/Close duty



Control module positioner (code S0, S5, S6), control operation - class C acc. to EN 15714-2

- DN 6 - 25 (code 0A) up to 50 °C ambient temperature
- DN 40 - 50 (code 1A) up to 30 °C ambient temperature

The specified characteristics and values apply to the default setting.

With reduced forces, higher duty cycles and/or higher ambient temperatures are possible. At higher force settings the duty cycle and/or ambient temperature is reduced (for IO-Link parameters see operating instructions).

Electrical data

Supply voltage U_v:	24 V DC $\pm$ 10%	
Rating:	Actuator size 0 (code 0A)	20 W
	Actuator size 1 (code 1A)	60 W
Operation:	Stepper motor, self-locking	
Reverse polarity protection:	Yes	

Analogue input signals – Control module Positioner (code S0, S5, S6)

Set value

Input signal:	0/4 - 20 mA; 0 - 10 V (function selectable via IO-Link)	
Input type:	passive	
Input resistance:	250 Ω	
Accuracy/linearity:	$\leq \pm 0.3\%$ of full flow	
Temperature drift:	$\leq \pm 0.1\%$ / 10°K	
Resolution:	12 bit	
Reverse polarity protection:	Yes (up to $\pm$ 24 V DC)	

Digital input signals

Inputs:	Function selectable via IO-Link (see table Overview of available functions – Input and output signals)	
Input voltage:	24 V DC	
Logic level "1":	> 15.3 V DC	
Logic level "0":	< 5.8 V DC	
Input current:	typically < 0.5 mA	

Analogue output signals – Control module Positioner (code S0, S5, S6)

Actual value

Output signal:	0/4 - 20 mA; 0 - 10 V (function selectable via IO-Link)	
Output type:	Active	
Accuracy:	$\leq \pm 1\%$ of full flow	
Temperature drift:	$\leq \pm 0.1\%$ / 10°K	
Load resistor:	≤ 750 k Ω	
Resolution:	12 bit	
Short-circuit proof:	Yes	

Digital output signals

Outputs:	Function selectable via IO-Link (see table Overview of available functions – Input and output signals)
Type of contact:	Push-Pull
Switching voltage:	Power supply U_v
Switching current:	≤ 140 mA
Short-circuit proof:	Yes

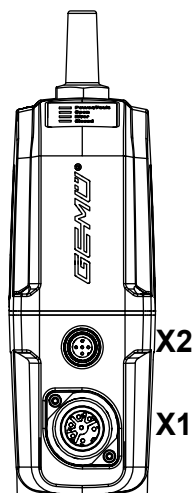
Communication

Interface:	IO-Link
Function:	Parameterization/process data
Transmission rate:	38400 baud
Frame type in Operate:	2.5 (eSyStep ON/OFF, code AE, A5, A6) 2.V (eSyStep positioner, code S0, S5, S6), PDout 3Byte; PDin 3 Byte; OnRequestData 2 Byte
Min. cycle time:	2.3 ms (eSyStep ON/OFF, code AE, A5, A6) 20 ms (eSyStep positioner, code S0, S5, S6)
Vendor-ID:	401
Device-ID:	1906701 (eSyStep ON/OFF, code AE, A5, A6) 1906801 (eSyStep position controller code S0, S5, S6), 1906802 (eSyStep position controller code S0, S5, S6) from software version V1.0.3.3 (from Nov 2024)
Product-ID:	eSyStep On/Off (code AE, A5, A6) eSyStep Positioner (code S0, S5, S6)
ISDU support:	Yes
SIO operation:	Yes
IO-Link specification:	V1.1

IODD files can be downloaded via <https://ioddfinder.io-link.com/> or www.gemu-group.com.

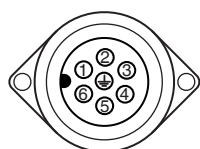
Electrical connection

Position of the connectors



Electrical connection

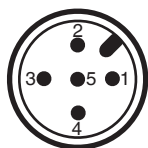
Connection X1



7-pin plug, Binder, type 693

Pin	Signal name
1	Uv, 24 V DC supply voltage
2	GND
3	Digital input 1
4	Digital input 2
5	Digital input/output
6	Digital output, IO-Link
7	n.c.

Connection X2 (only for positioner design)

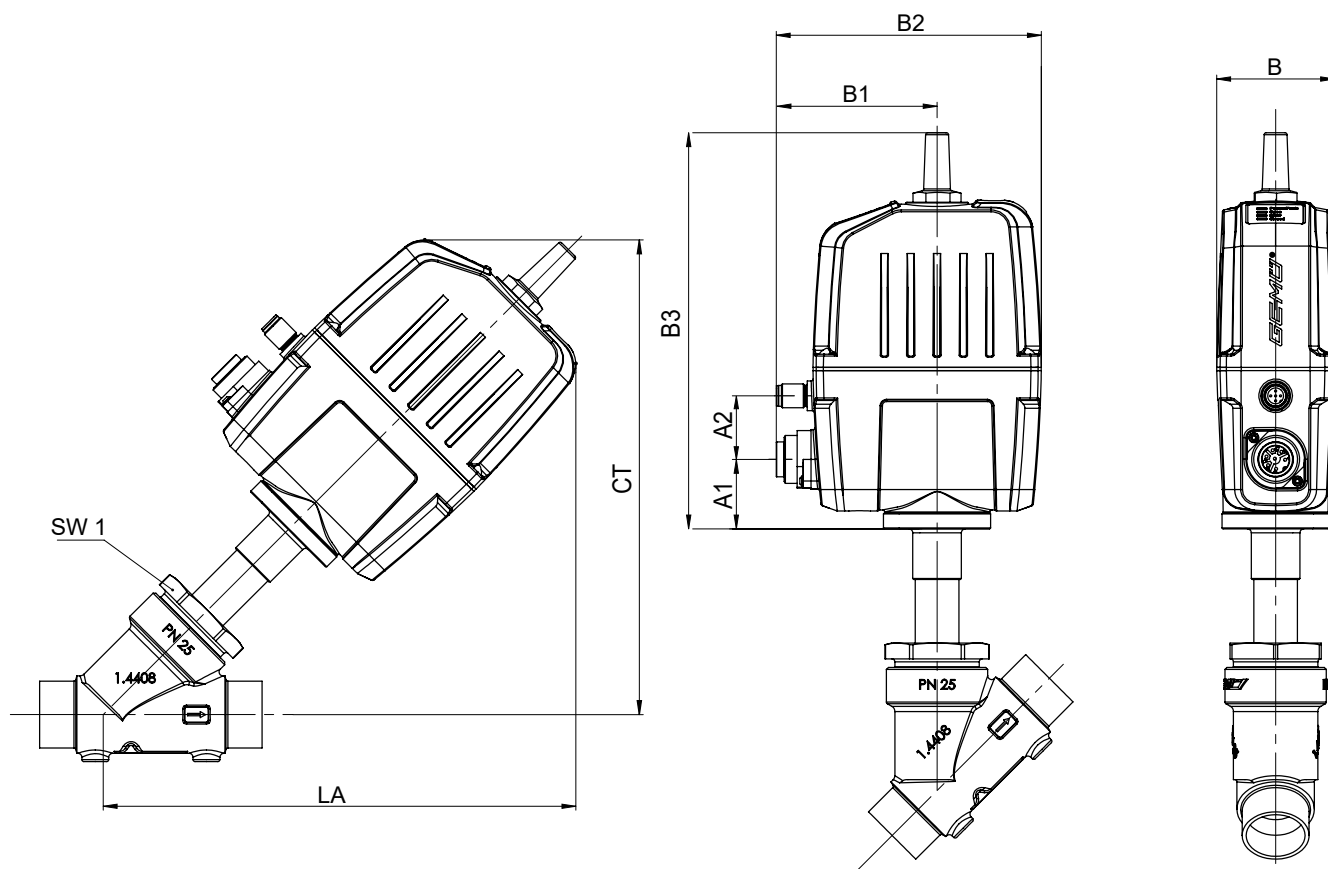


5-pin M12 plug, A-coded

Pin	Signal name
1	I+/U+, set value input
2	I-/U-, set value input
3	I+/U+, actual value output
4	I-/U-, actual value output
5	n.c.

Dimensions

Installation and actuator dimensions - Valve with 2/2-way body

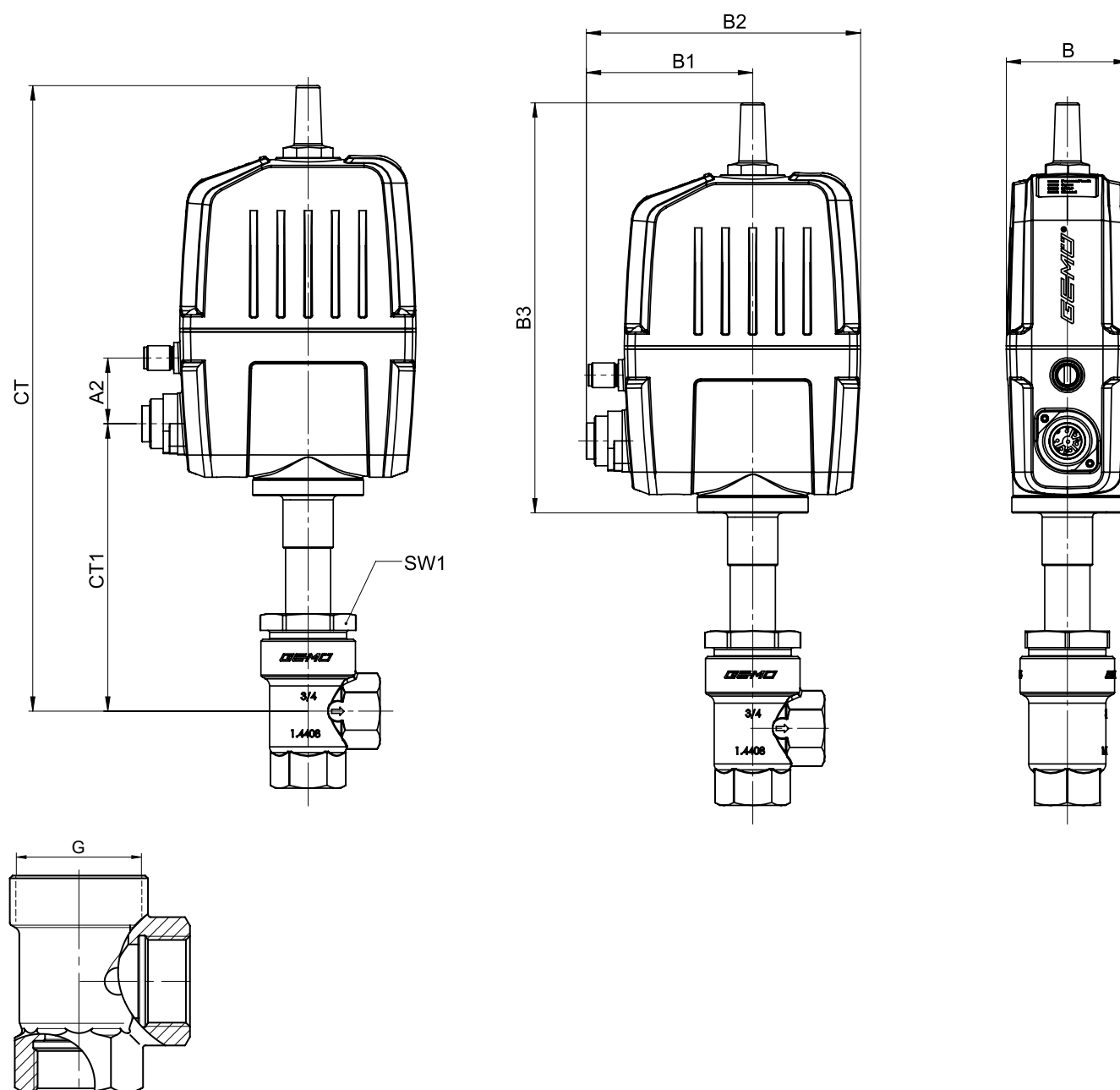


DN	Actuator version	SW1	A1	A2	B	B1	B2	B3	CT	LA
6	0A	24	33.2	32.0	59.4	81.0	133.5	200.5	210.0	209.2
8	0A	24	33.2	32.0	59.4	81.0	133.5	200.5	210.0	209.2
10	0A	24	33.2	32.0	59.4	81.0	133.5	200.5	210.2	209.2
15	0A	36	33.2	32.0	59.4	81.0	133.5	200.5	228.8	227.8
	1A		70.0	32.5	70.0	82.0	150.0	252.0	254.7	260.8
20	0A	41	33.2	32.0	59.4	81.0	133.5	200.5	234.2	233.1
	1A		70.0	32.5	70.0	82.0	150.0	252.0	260.0	266.1
25	0A	46	33.2	32.0	59.4	81.0	133.5	200.5	239.1	238.1
	1A		70.0	32.5	70.0	82.0	150.0	252.0	265.0	271.1
32	1A	55	70.0	32.5	70.0	82.0	150.0	252.0	271.5	277.6
40	1A	60	70.0	32.5	70.0	82.0	150.0	252.0	278.5	284.6
50	1A	75	70.0	32.5	70.0	82.0	150.0	252.0	288.4	294.5

Dimension A2 only for control module – positioner (code S0, S5, S6)

Dimensions in mm

Installation dimensions - Valve with angle valve body

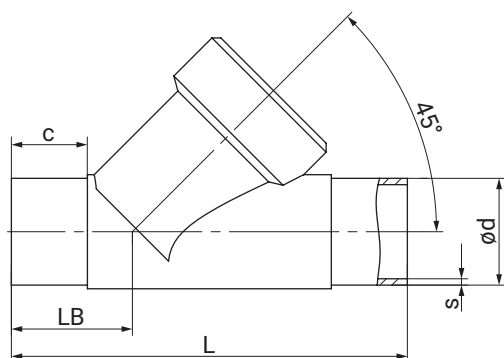


DN	Actuator version	SW1	G	A2	B	B1	B2	B3	CT	CT1
15	0A	36	M35x1.5	32.0	59.4	81.0	133.5	200.5	300.8	136.3
	1A	36	M35x1.5	32.5	70.0	82.0	150.0	252.0	350.8	218.8
20	0A	41	M40x1.5	32.0	59.4	81.0	133.5	200.5	304.3	139.8
	1A	41	M40x1.5	32.5	70.0	82.0	150.0	252.0	354.3	222.3
25	0A	46	M45x1.5	32.0	59.4	81.0	133.5	200.5	308.3	143.8
	1A	46	M45x1.5	32.5	70.0	82.0	150.0	252.0	358.3	226.3
32	1A	55	M52x1.5	32.5	70.0	82.0	150.0	252.0	360.1	228.1
40	1A	60	M60x2.0	32.5	70.0	82.0	150.0	252.0	365.5	233.5
50	1A	75	M72x2.0	32.5	70.0	82.0	150.0	252.0	370.5	238.5

Dimensions in mm

Body dimensions

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



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

Connection type: Spigot DIN/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"	20.0	-	-	-	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

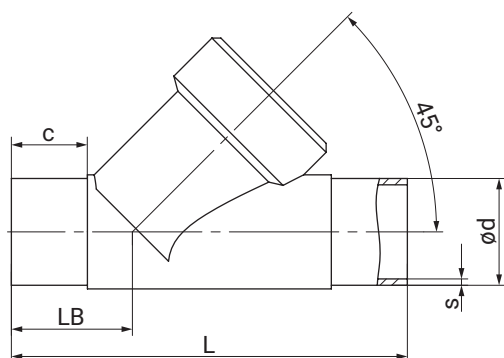
Code 59: Spigot ASME BPE/DIN EN 10357 series C (from 2022 issue)/DIN 11866 series C

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), actuator size 0A, 1A



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

Connection type: Spigot DN, LB, S (code 0, 16, 17, 60) ; Investment casting material (code 0-1)															
DN	NPS	c (min)				ød				L	LB	s			
		Connection type										Connection type			
		0	16	17	60	0	16	17	60			0	16	17	60
10	3/8"	-	20.0	20.0	20.0	-	12.0	13.0	17.2	105.0	35.5	-	1.0	1.5	1.6
15	1/2"	20.0	20.0	20.0	20.0	18.0	18.0	19.0	21.3	105.0	35.5	1.5	1.0	1.5	1.6
20	3/4"	25.0	25.0	25.0	25.0	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"	-	26.0	27.0	29.0	-	34.0	35.0	42.4	155.0	48.0	-	1.0	1.5	2.0

Dimensions

DN	NPS	c (min)				ød				L	LB	s			
		Connection type										Connection type			
		0	16	17	60	0	16	17	60			0	16	17	60
40	1½"	24.0	24.0	24.0	43.7	40.0	40.0	41.0	48.3	160.0	47.0	1.5	1.0	1.5	2.0
50	2"	29.0	29.0	29.0	29.0	52.0	52.0	53.0	60.3	180.0	48.0	1.5	1.0	1.5	2.0

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

DN	NPS	c (min)		ød		L	LB	s	
		Connection type						Connection type	
		37	59	37	59			37	59
15	1/2"	-	20	-	12.70	105.0	35.5	-	1.65
20	3/4"	-	25	-	19.05	120.0	39.0	-	1.65
25	1"	24.5	24.5	25.0	25.40	125.0	38.5	1.2	1.65
40	1½"	24	24	38.0	38.10	160.0	47.0	1.2	1.65
50	2"	29	29	51.0	50.80	180.0	48.0	1.2	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

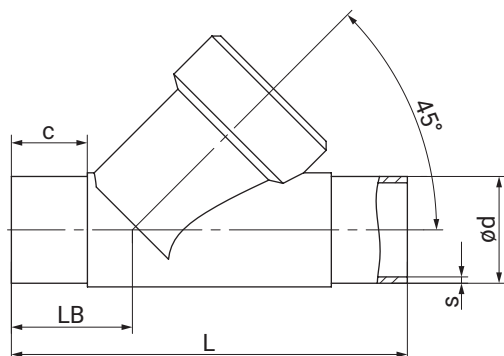
Code 37: Spigot SMS 3008

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

2) Valve body material

Code 34: 1.4435, investment casting

Spigot EN/ISO (code 17, 60), actuator size 0A, 1A**Connection type spigot EN/ISO (code 17, 60)¹⁾, investment casting material (code 37)²⁾**

DN	NPS	c (min)		ød		L	LB	s	
		Connection type						Connection type	
		17	60	17	60			17	60
15	1/2"	18	18	19.0	21.3	100.0	33.0	1.5	1.6
20	3/4"	18	18	23.0	26.9	108.0	33.0	1.5	1.6
25	1"	18	18	29.0	33.7	112.0	32.0	1.5	2.0
32	1¼"	18	18	35.0	42.4	137.0	39.0	1.5	2.0
40	1½"	19	18	41.0	48.3	146.0	40.0	1.5	2.0
50	2"	20	20	53.0	60.3	160.0	38.0	1.5	2.0

Dimensions in mm

1) Connection type

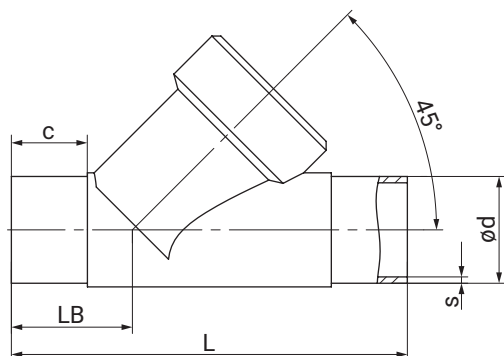
Code 17: Spigot EN 10357 series A/DIN 11866 series A, formerly DIN 11850 series 2

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

2) Valve body material

Code 37: 1.4408, investment casting

Spigot EN/ISO/ASME (code 17, 59, 60), actuator size 0A, 1A



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

Connection type spigot EN10305/ASME (code 17, 59, 60) , investment casting material (code 02)												
DN	NPS	c (min)			ød			L	LB	s		
		Connection type								Connection type		
		17	59	60	17	59	60			17	59	60
8	1/4"	-	-	20	-	-	13.5	80.0	35.5	-	-	1.6
10	3/8"	20	-	20	13.0	-	17.2	100.0	35.5	1.5	-	1.6
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

Dimensions in mm

1) Connection type

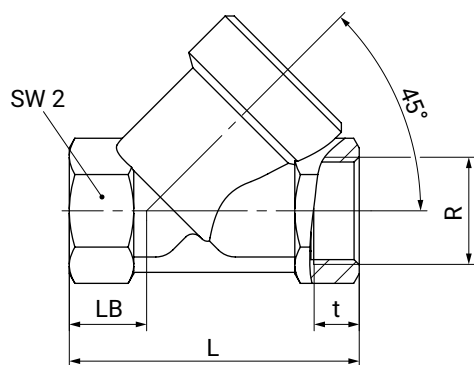
Code 17: Spigot EN 10357 series A/DIN 11866 series A, formerly DIN 11850 series 2

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, 3D), actuator size 0E

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

DN	NPS	L	LB		R		SW2	t	
			Connection type		Connection type			Connection type	
			1	3D	1	3D		1	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	G 3/8	3/8" NPT	24	12.0	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

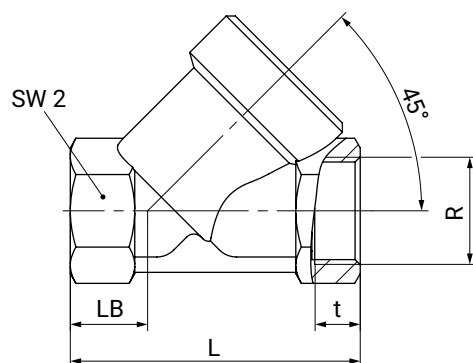
Code 1: Threaded socket DIN ISO 228

Code 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 0A, 1A



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

DN	NPS	L	LB	R	SW2	t
10	3/8"	65.0	16.5	G 3/8	27	11.4
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

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	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

Dimensions in mm

1) Connection type

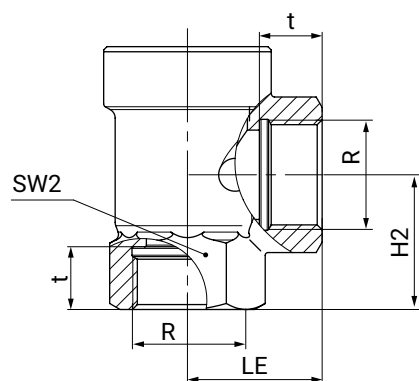
Code 1: Threaded socket DIN ISO 228

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), actuator size 0A, 1A

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

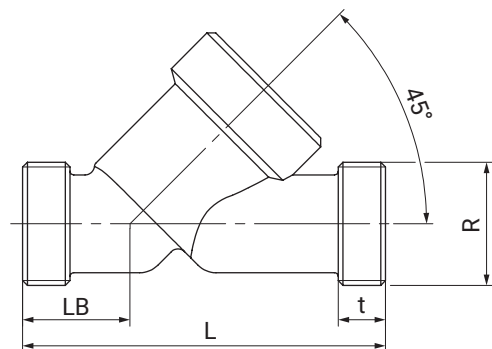
Code 1: Threaded socket DIN ISO 228

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 spigot DIN (code 9), actuator size 0E



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

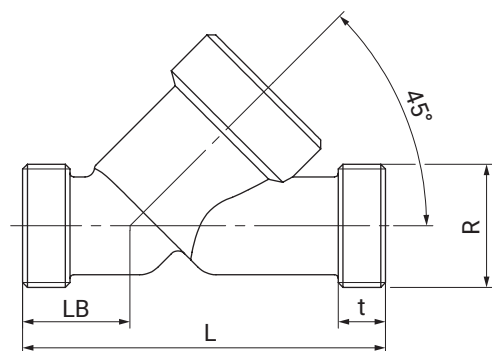
1) Connection type

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 0A, 1A**Connection type threaded spigot DIN (code 9)¹⁾, investment casting material (code 37)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
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

Dimensions in mm

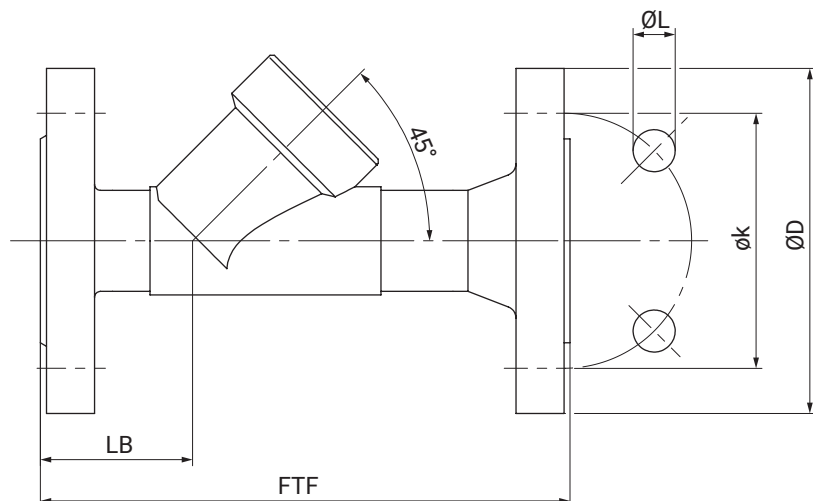
1) Connection type

Code 9: Threaded spigot DIN ISO 228

2) Valve body material

Code 37: 1.4408, investment casting

Flange EN (code 10), actuator size 0A, 1A



Connection type flange EN (code 10)¹⁾, investment casting material (code 37)²⁾

DN	NPS	ø D	FTF	ø k	ø L	LB	n
15	1/2"	95.0	130.0	65.0	14.0	33.0	4
20	3/4"	105.0	150.0	75.0	14.0	45.0	4
25	1"	115.0	160.0	85.0	14.0	44.0	4
32	1¼"	140.0	180.0	100.0	18.0	51.0	4
40	1½"	150.0	200.0	110.0	18.0	52.0	4
50	2"	165.0	230.0	125.0	18.0	50.0	4

Dimensions in mm

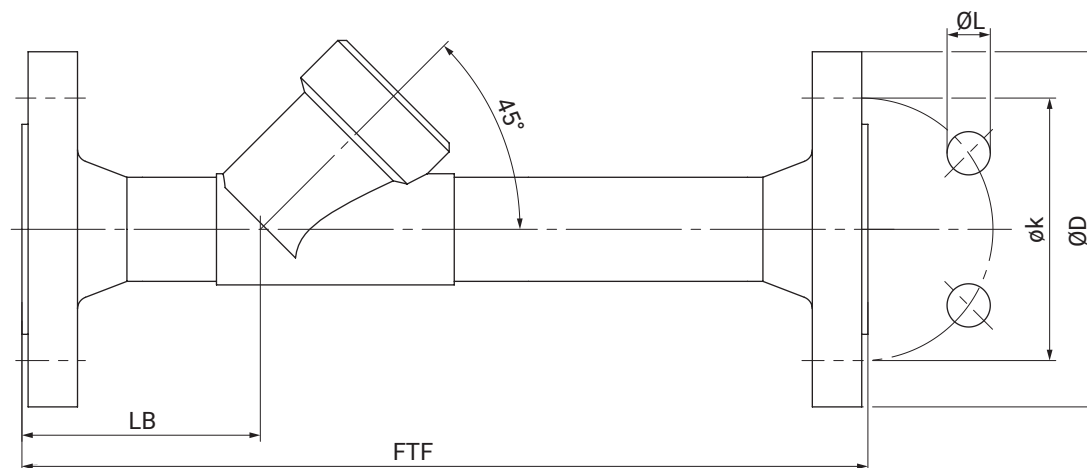
n = number of bolts

1) Connection type

Code 10: Flange EN 1092, PN 25, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1

2) Valve body material

Code 37: 1.4408, investment casting

Flange, special length EN/ANSI (code 13, 47), actuator size 0A, 1A

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

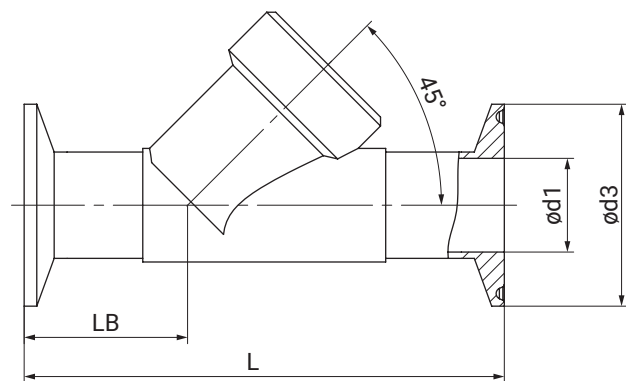
Code 13: Flange EN 1092, PN 25, form B

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), actuator size 0A, 1A



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

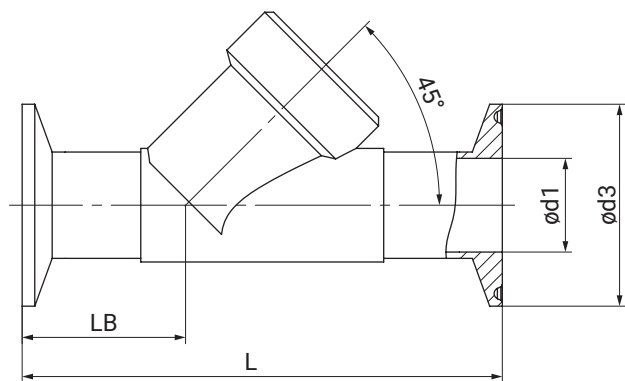
Code 82: Clamp DIN 32676 series B, face-to-face dimension FTF EN 558 series 1

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

Clamp DIN/ASME (code 82, 86, 88), actuator size 0A, 1A**Connection type clamp DIN/ASME (code 82, 86, 88)¹⁾, investment casting material (code C2)²⁾**

Connection type clamp DN/ASLE (code 82, 86, 88) ; investment casting material (code 82)									
DN	NPS	ød1			ød3			L	LB
		Connection type			Connection type				
		82	86	88	82	86	88		
8	1/4"	10.3	-	-	25.0	-	-	130.0	47.5
10	3/8"	14.0	10.0	-	25.0	34.0	-	130.0	47.5
15	1/2"	18.1	16.0	9.40	50.5	34.0	25.0	130.0	47.5
20	3/4"	23.7	20.0	15.75	50.5	34.0	25.0	150.0	54.0
25	1"	29.7	26.0	22.10	50.5	50.5	50.5	160.0	56.0
32	1¼"	38.4	32.0	-	64.0	50.5	-	180.0	62.0
40	1½"	44.3	38.0	34.80	64.0	50.5	50.5	200.0	67.0
50	2"	56.3	50.0	47.50	77.5	64.0	64.0	230.0	73.0

Dimensions in mm

1) Connection type

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 C2: 1.4435, investment casting

Accessories



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 1219

Cable socket / cable plug M12

The GEMÜ 1219 is a connector (cable socket / cable plug) M12, 5-pin. Straight and/or 90° angled plug type. Defined cable length or with threaded connection without cable. Various materials available for the threaded ring.

Suitable for electrical connection of the connector X2

Description	Length	Order number
5-pin, angle	without cable	88205545 ¹⁾
	2 m cable	88205534
	5 m cable	88205540
	10 m cable	88210911
	15 m cable	88244667
5-pin, straight	without cable	88205544
	2 m cable	88205542
	5 m cable	88205543
	10 m cable	88270972
	15 m cable	88346791

1) provided in the scope of delivery for control module code S0

**GEMÜ 1560****IO-Link master**

The GEMÜ 1560 IO-Link master is used for parametrization, actuation, commissioning and for evaluating process and diagnostics data on products with IO-Link interface with communication standard in accordance with IEC 61131-9. The IO-Link master is available with USB port for use on a computer or with a Bluetooth or WLAN interface for use on mobile devices (iOS and Android). GEMÜ 1560 can be ordered separately or as a set for GEMÜ products including the required adapter.

Description	Order designation	Order number
IO-Link master kit (adapter plus cable)	1560USBS 1 A40A12AU A	99072365
IO-Link master kit (adapter plus cable)	1560 BTS 1 A20A12AA A	99130458

**GEMÜ 1571****Emergency power supply module**

The GEMÜ 1571 capacitive emergency power supply module is suitable for valves with motorized actuators such as GEMÜ eSyStep and eSyDrive as well as the GEMÜ C53 iComLine control valve. In the event of a power failure, the product provides an uninterrupted power supply so that the valve can be moved to the safety position. The emergency power supply module is available individually or with an expansion module and can supply several valves. The input and output voltage is 24 V.

GEMÜ 1571 emergency power supply module			
Input voltage	Output voltage	Capacity	Item number
24 V	24 V	1700 Ws	88660398
24 V	24 V	13200 Ws	88751062

**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
100 - 240 V AC	24 V DC	5 A	88660400
		10 A	88660401



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