

GEMÜ 567 servoDrive

Motorized control valve



Features

- Precise quantity control
- Hermetic separation between medium and actuator due to PD design
- Easy, fast, and error-optimized maintenance
- Actuator can be replaced under operating pressure without contaminating the medium
- Flexible and fast program changes thanks to freely programmable filling curves
- Can be activated in real time
- Suitable for vacuum up to 10 mbar (a) as standard

Description

The GEMÜ 567 servoDrive 2/2-way diaphragm globe valve is a precise motorized control valve for sterile applications. The servoDrive actuator can be used for extremely precise and fast control and filling processes in aseptic and hygienic applications.

Technical specifications

- **Media temperature:** 14 to 320 °F
- **Ambient temperature:** 32 to 104 °F
- **Operating pressure:** 0 to 105 psi
- **Nominal sizes:** 1/4" (DN 8) to 1" (DN 20)
- **Body configurations:** Angle valve body | Multi-port body
- **Connection standards:** ASME | DIN | EN | ISO
- **Body materials:** 1.4410, block material | 1.4435 (316L), block material | 1.4435 (BN2), block material | 1.4529, block material | 1.4539 (904L), block material | 2.4602, block material
- **Seal materials:** PTFE | Stainless steel/FKM/PTFE
- **Supply voltage:** 48 V DC
- **Actuating speed:** Max. 280 mm/s
- **Protection class:** IP 69K
- **Conformities:** 3A | FDA | Oxygen | Reg. (EU) No. 10/2011 | Regulation (EC) No. 1935/2004 | Regulation (EC) No. 2023/2006 | USP

Technical data depends on the respective configuration







further information
webcode: GW-567



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Product comparison

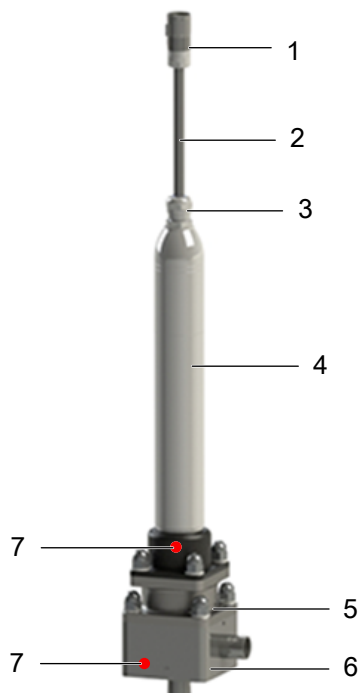
				
	GEMÜ 567 eSyDrive	GEMÜ 567 servoDrive	GEMÜ 567 BioStar control	GEMÜ 567 BioStar control
Operation				
Manual	-	-	●	-
pneumatic	-	-	-	●
Motorized	●	●	-	-
Nominal sizes	DN 8 to 65	DN 8 to 20	DN 8 to 25	DN 8 to 65
Operating pressure	0 to 10 bar	0 to 7 bar	0 to 10 bar	0 to 10 bar
Body material				
1.4410, block material	●	●	●	●
1.4435 (316L), block material	●	●	●	●
1.4435 (BN2), block material	●	●	●	●
1.4529, block material	●	●	●	●
1.4539 (904L), block material	●	●	●	●
2.4602, block material	●	●	●	●
Connection types				
Clamp	●	●	●	●
Spigot	●	●	●	●

Comparison data for eSyDrive/servoDrive

	eSyDrive	servoDrive
Service life	1,000,000 cycle duties	10,000,000 cycle duties
Speed	max. 6mm/s	max. 200mm/s
Operating pressure	0 to 10 bar	0 to 7 bar
Nominal sizes	DN 8 to 65	DN 8 to 20
Main function	OPEN/CLOSE, Positioner, Process controller	Function can be programmed variably in the control panel via external controller GEMÜ 1282 servoDrive
Interface	Digital and analogue inputs and outputs, Ethernet with integrated web server, Modbus TCP	Interface to external GEMÜ 1282 servoDrive controller. GEMÜ 1282 servoDrive controller available with various fieldbus interfaces.
Protection class	IP65	IP69K actuator IP65 connector plug
Power supply	24 V DC	48 V DC
Manual override	Yes	No
Optical position indicator	Yes	No
Electrical connection	Connector	Connector / cable exit
Self-locking	Yes	No

Product description servoDrive

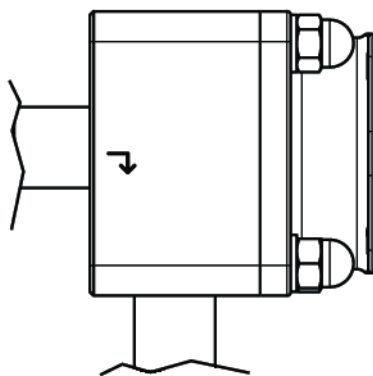
Construction



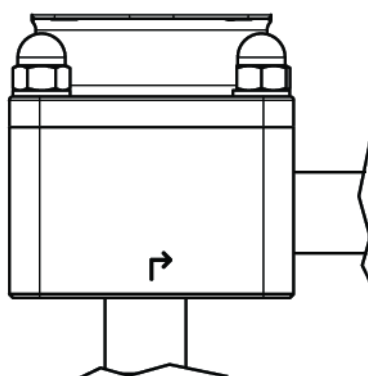
Item	Name	Materials
1	Electrical connections	
2	Connection cable	PUR
3	Cable gland	SS
4	Actuator housing	1.4305
5	Distance piece	1.4404
6	Valve body with leak detection hole	1.4435, 1.4539, 2.4602, 1.4410, 1.4529
7	CONEXO RFID chip	

Flow direction

Installation position for optimized draining



in closed and open position
Actuator horizontal

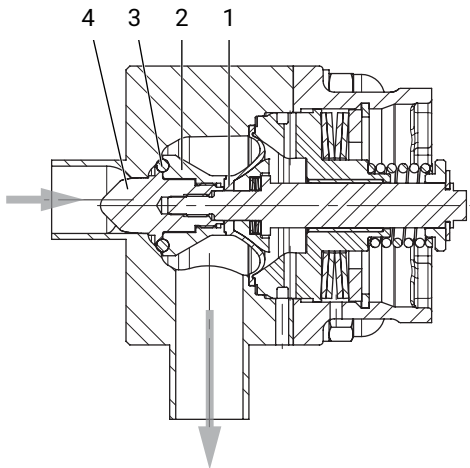


in open position
Actuator horizontal or vertical

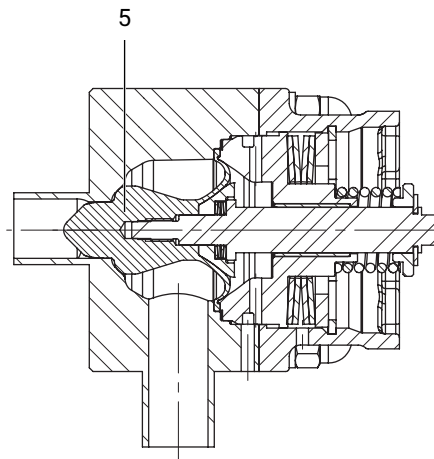
Control range

We recommend designing the valves in such a way that the control range is within an opening stroke of 20% to 90% of the control valve.

PD seal system without bypass



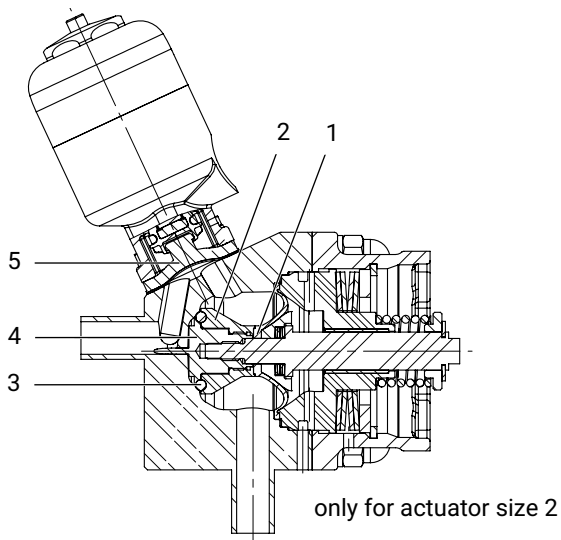
Seal material code 4



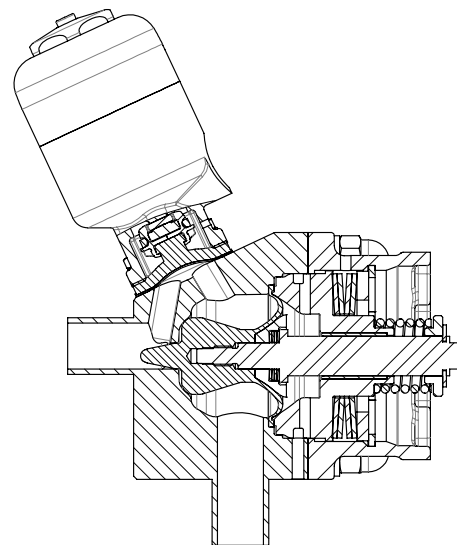
Seal material code 5

Item	Name	Materials
1	Plug diaphragm	PTFE
2	Support ring	1.4435, 1.4539, 2.4602, 1.4410, 1.4529
3	O-ring	FKM
4	Regulating cone	1.4435, 1.4539, 2.4602, 1.4410, 1.4529
5	Plug diaphragm with regulating cone	PTFE

PD seal system with bypass



only for actuator size 2



Item	Name	Materials
1	Plug diaphragm FKM, PTFE	PTFE
2	Support ring	1.4435, 1.4539, 2.4602, 1.4410, 1.4529
3	O-ring	FKM, FFKM
4	Regulating cone	1.4435, 1.4539, 2.4602, 1.4410, 1.4529
5	Bypass valve diaphragm	PTFE-EPDM, EPDM

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".

Availability

Availability of valve bodies

Spigot without bypass

DN	Connection type code			
	0	17	59	60
8	-	X	-	X
10	-	X	-	X
15	X	X	X	X
20	-	-	X	-

Spigot with bypass

DN	Connection type code ¹⁾			
	0	17	59	60
8	-	X	-	X
10	-	X	-	X
15	X	X	X	X
20	-	-	X	-

1) **Connection type**

Code 0: Spigot DIN

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

Code 59: Spigot ASME BPE / DIN 11866 series C

Code 60: Spigot ISO 1127/EN 10357 series C/DIN 11866 series B

Clamp without bypass

DN	Connection type code ¹⁾		
	82	86	88
8	X	X	-
10	X	X	-
15	X	X	X
20	-	-	X

1) **Connection type**

Code 82: Clamp DIN 32676 series B

Code 86: Clamp DIN 32676 series A

Code 88: Clamp ASME BPE

Clamp with bypass

DN	Connection type code ¹⁾		
	82	86	88
8	X	X	-
10	X	X	-
15	X	X	X
20	-	-	X

1) **Connection type**

Code 82: Clamp DIN 32676 series B

Code 86: Clamp DIN 32676 series A

Code 88: Clamp ASME BPE

Availability of grades of surface finish

Internal surface finishes for forged and block material bodies¹⁾

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

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

Internal surface finishes for investment cast bodies

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

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

- 1) Surface finishes of customized valve bodies may be limited in special cases.
- 2) Or any other finishing method that meets the Ra value (acc. to ASME BPE).
- 3) The maximum Ra finish achievable for pipe connections with an internal pipe diameter < 6 mm is 0.38 µm.
- 4) When using these surfaces, the bodies are marked according to the specifications of ASME BPE.
The surfaces are only available for valve bodies which are made of materials (e.g. GEMÜ material codes 40, 41, F4, 44)) and use connections (e.g. GEMÜ connection codes 59, 80, 88) according to ASME BPE.

Order data - servoDrive

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
Control valve	567

2 DN	Code
DN 8	8
DN 10	10
DN 15	15
DN 20	20

3 Body configuration	Code
2-way angle body	E
2-way angle body with bypass	M

4 Connection type	Code
Spigot	
Spigot DIN	0
Spigot EN 10357 series A (formerly DIN 11850 series 2)/DIN 11866 series A	17
Spigot ASME BPE / DIN 11866 series C	59
Spigot ISO 1127/EN 10357 series C/DIN 11866 series B	60
Clamp	
Clamp DIN 32676 series B	82
Clamp DIN 32676 series A	86
Clamp ASME BPE	88

5 Valve body material	Code
1.4435 (316L), block material	41
1.4435 (BN2), block material, Δ Fe < 0,5 %	43
1.4539 / UNS N08904, block material	44
2.4602, block material Alloy 22, (NiCr21Mo14W)	A3
1.4410, block material	A7
1.4529, block material	A8

6 Seal material	Code
Actuator seal PTFE / seat seal FKM	4
Actuator seal PTFE / seat seal PTFE	5
Actuator seal PTFE / seat seal FKM / bypass seal EPDM bypass diaphragm code 13	43
Actuator seal PTFE / seat seal FKM / bypass seal PTFE bypass diaphragm code 54	45
Actuator seal PTFE / seat seal FKM / bypass seal EPDM bypass diaphragm code 17	47
Actuator seal PTFE / seat seal PTFE / bypass seal PTFE bypass diaphragm code 54	55
Actuator seal PTFE / seat seal FFKM	F
Actuator seal PTFE / seat seal FFKM / bypass seal PTFE bypass diaphragm code 54	F5

7 Voltage/Frequency	Code
48 V DC	D1

8 Control module	Code
OPEN/CLOSE, positioner controller, in combination with GEMÜ 1282 controller	LN

9 Cable length	Code
3,0m	3

10 Control characteristic	Code
Modified equal-percentage	G
Linear	L

11 Kv value	Code
80 l/h	AA
100 l/h	AB
160 l/h	BC
250 l/h	BD
400 l/h	BE
630 l/h	CF
1.0 m ³ /h	CG
1.6 m ³ /h	DH
2.6 m ³ /h	EJ
4.1 m ³ /h	G1

12 Bypass actuator version	Code
Pneumatically operated, normally closed, diaphragm size 8,	11
Pneumatically operated, normally open, diaphragm size 8,	12
Manually operated, with seal adjuster, diaphragm size 8,	S0

13 Surface	Code
Ra ≤ 0.25 µm (10 µin.) for media wetted surfaces *), in accordance with DIN 11866 HE5, electropolished internal/external, *) for inner pipe diameters < 6 mm, in the spigot Ra ≤ 0.38 µm	1516
Ra ≤ 0.25 µm (10 µin.) for media wetted surfaces *), in accordance with DIN 11866 H5, mechanically polished internal, *) for inner pipe diameters < 6 mm, in the spigot Ra ≤ 0.38 µm	1527
Ra ≤ 0.4 µm (15 µin.) for media wetted surfaces, in accordance with DIN 11866 H4, mechanically polished internal	1536
Ra ≤ 0.4 µm (15 µin.) for media wetted surfaces, in accordance with DIN 11866 HE4, electropolished internal/external	1537
Ra max. 0.51 µm (20 µin.) for media wetted surfaces, in accordance with ASME BPE SF1, mechanically polished internal	SF1

Order data - servoDrive

13 Surface	Code	15 Special version	Code
Ra max. 0.38 µm (15 µin.) for media wetted surfaces, in accordance with ASME BPE SF4, electropolished internal/external	SF4	Special version for 3A	M
Ra max. 0.51 µm (20 µin.) for media wetted surfaces, in accordance with ASME BPE SF5, electropolished internal/external	SF5	Special version for oxygen, (maximum medium temperature: 60 °C.; maximum operating pressure: 10 bar), Flow direction only possible under the seat	S
14 Actuator+interface	Code	16 CONEXO	Code
ServoDrive with standard bus	TN	Without	
ServoDrive with Powerlink	TP	Integrated RFID chip for electronic identification and traceability	C

Order example

Order option	Code	Description
1 Type	567	Control valve
2 DN	15	DN 15
3 Body configuration	E	2-way angle body
4 Connection type	17	Spigot EN 10357 series A (formerly DIN 11850 series 2)/DIN 11866 series A
5 Valve body material	41	1.4435 (316L), block material
6 Seal material	5	Actuator seal PTFE / seat seal PTFE
7 Voltage/Frequency	D1	48 V DC
8 Control module	LN	OPEN/CLOSE, positioner controller, in combination with GEMÜ 1282 controller
9 Cable length	3	3,0m
10 Control characteristic	G	Modified equal-percentage
11 Kv value	G1	4.1 m³/h
12 Bypass actuator version	S0	Manually operated, with seal adjuster, diaphragm size 8,
13 Surface	1536	Ra ≤ 0.4 µm (15 µin.) for media wetted surfaces, in accordance with DIN 11866 H4, mechanically polished internal
14 Actuator+interface	TN	ServoDrive with standard bus
15 Special version	M	Special version for 3A
16 CONEXO	C	Integrated RFID chip for electronic identification and traceability

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 diaphragm material.

Temperature

Media temperature:	Without bypass	14 to 320 °F
	With bypass	14 to 212 °F
	Observe pressure/temperature diagram	
Sterilisation temperature:	Seat seal FKM without bypass, (code 4)	320 °F ¹⁾ , steam max. 30 min ²⁾
	Seat seal PTFE without bypass, (code 5)	320 °F ¹⁾ , steam max. 30 min ²⁾
	Seat seal FKM	302 °F ³⁾ , max. 30 min
	bypass diaphragm material EPDM, (code 43)	
	Seat seal FKM	302 °F ³⁾ , max. 30 min
	bypass diaphragm material PTFE/EPDM, PTFE laminated, (code 45)	
	Seat seal FKM	302 °F ³⁾ , max. 30 min
	bypass diaphragm material EPDM, (code 47)	
	Seat seal PTFE	302 °F ³⁾ , max. 30 min
	bypass diaphragm material PTFE/EPDM, PTFE laminated, (code 55)	

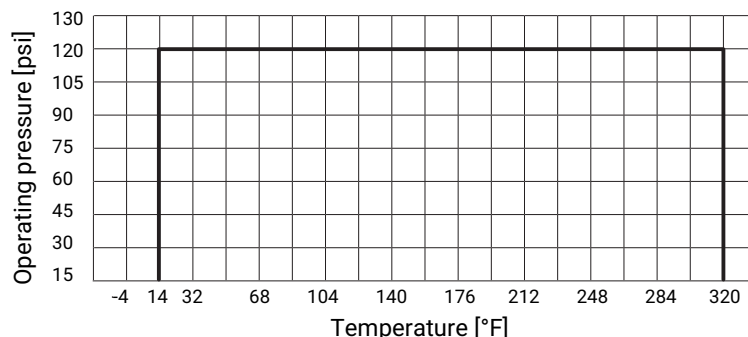
- 1) The sterilisation temperature is only valid for steam (saturated steam) or superheated water.
- 2) Longer sterilization times or continuous operation on request.
- 3) If the sterilisation temperatures listed above are applied to the EPDM diaphragms for longer periods of time, the service life of the diaphragms will be reduced. In these cases, maintenance cycles must be adapted accordingly

Ambient temperature: 32 – 104 °F

Storage temperature: 32 – 104 °F

Pressure

Operating pressure: Pressure/Temperature diagram



0 – 105 psi

All pressures are psi - gauge pressures. Operating pressure values were determined with static operating pressure applied on one side of a closed valve. Sealing at the valve seat and atmospheric sealing is ensured for the given values.

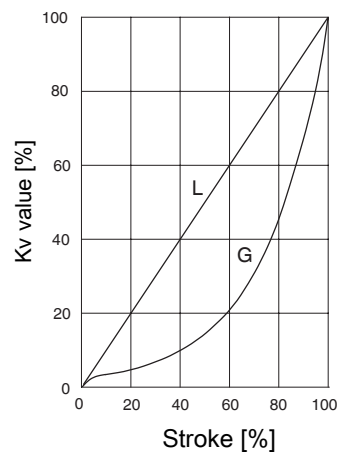
Information on operating pressures applied on both sides and for high purity media on request.

Leakage rate:

Control valve

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

Cv-values:



Seal material code	Control characteristic	Kv value	DN 8	DN 10	DN 15	DN 20
4, 43, 45, 47, F, F5	GAA, LAA	80 l/h	X	X	X	X
	GAB, LAB	100 l/h	X	X	X	X
	GBC, LBC	160 l/h	X	X	X	X
	GBD, LBD	250 l/h	X	X	X	X
	GBE, LBE	400 l/h	X	X	X	X
5, 55	GCF, LCF	630 l/h	X	X	X	X
	GCG, LCG	1.0 m³/h	-	X	X	X
	GDH, LDH	1.6 m³/h	-	X	X	X
	GEJ, LEJ	2.6 m³/h	-	-	X	X
	GG1, LG1	4.1 m³/h	-	-	X	X

Kv values of bypass 2.1 m³/h
 Kv values determined acc.to DIN EN 60534.

Product compliance

Machinery Directive:	2006/42/EC
EMC Directive:	2014/30/EU
Food:	FDA USP Regulation (EC) No. 1935/2004 Regulation (EC) No. 10/2011

Mechanical data

Protection class:	Actuator and cable exit: IP69K acc. to EN 60529 Connector plug: IP65/IP67 acc. to EN 60529 when plugged in
Weight:	Actuator 1.3 kg Body 2.18 kg (actuator size 2)
Operating time:	adjustable, max. 280 mm/s
Humidity:	Relative humidity: 5–95% Absolute humidity: 1–29 g/m ³ 2,1 kg

Duty cycle and service life

Service life:	Class D acc. to EN 15714-2 (10,000,000 start-ups and 3600 start-ups per hour).
Duty cycle:	Continuous duty

Electrical data

Supply voltage:	48 V DC \pm 10%
Maximum current:	12 A
Extended standstill current:	3.1 A
Rated current:	2.5 A
Maximum power:	300 W
Rated power:	120 W
Reverse battery protection:	Yes

Electrical connection

Connection:	Connection cable with connector
Connector plug:	Intercontec series 915 12 + 3-pin
Plug cycles:	<500

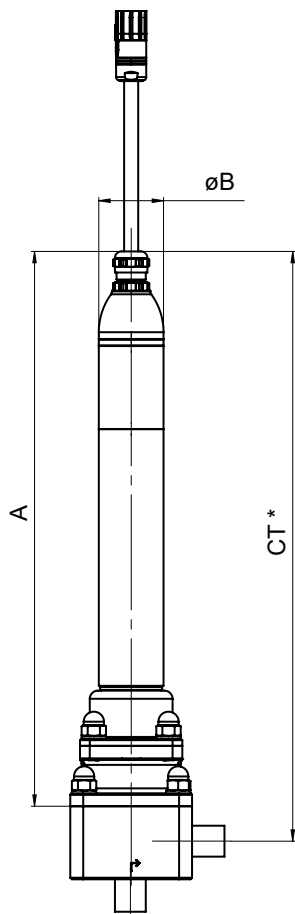
Connection cable

Cable length:	3 m (extension cable 5 m)	
Cable material:	PUR	
Shield:	Twofold shield	
Cable colour:	Black	
Bend radius:	Single movement	$\geq 3 \times D$
	Moving	$\geq 10 \times D$
Drag chain data:	Acceleration	2 m/s ²
	Bend cycles	1,000,000
	Speed	3 m/s
Resistance:	Oil resistance in accordance with EN 60811-404	
Torsion applications:	Not suitable	
Approval:	UL AWM Style 20233, 80 °C, 300 V	

Dimensions

Actuator dimensions

servoDrive



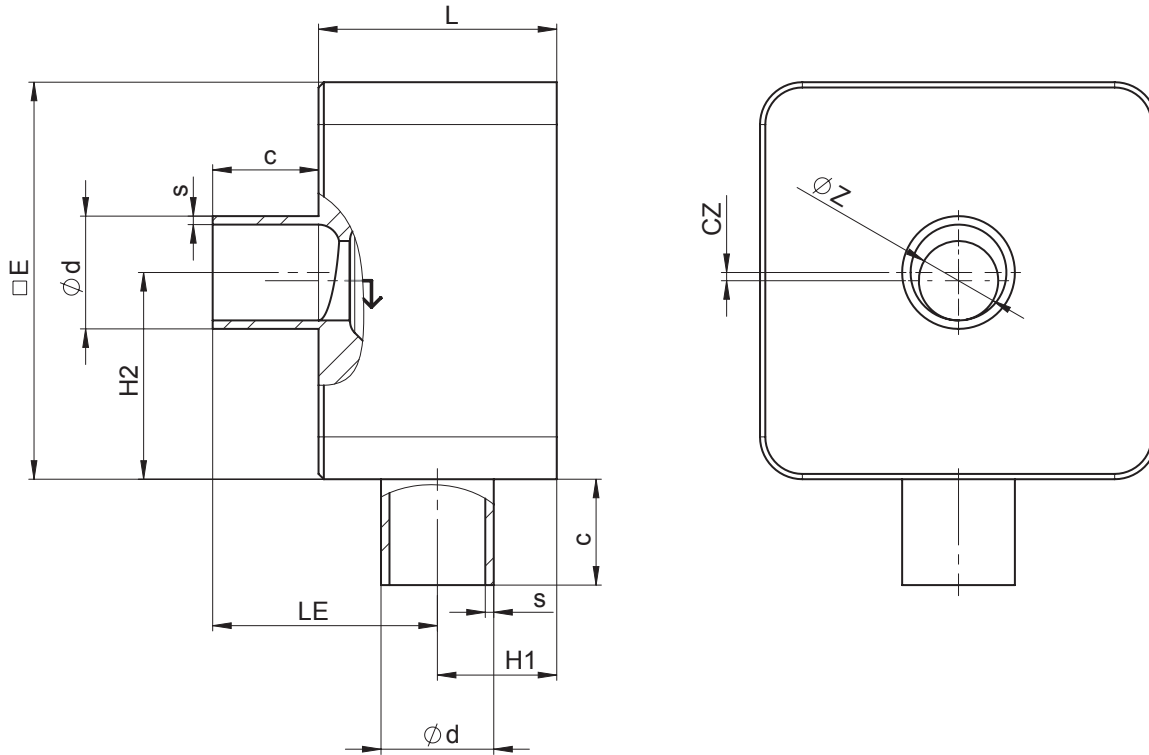
DN	Actuator size	A	øB
8, 10, 15, 20	2	9.65	1.57

Dimensions in inch

* CT = A + H1 (see body dimensions)

Body dimensions

Spigot without bypass code 0



AG	DN	Connection type code 0 ¹⁾										
		Seat size (code)	L	□E	c	∅z	LE	H1	H2	cz	∅d	s
2	15	A	1.77	2.95	0.79	0.08	1.73	0.83	1.59	0.26	0.71	0.06
		B	1.77	2.95	0.79	0.16	1.73	0.83	1.56	0.22	0.71	0.06
		C	1.77	2.95	0.79	0.24	1.73	0.83	1.52	0.18	0.71	0.06
		D	1.77	2.95	0.79	0.31	1.73	0.83	1.61	0.14	0.71	0.06
		E	1.77	2.95	0.79	0.39	1.73	0.83	1.57	0.10	0.71	0.06
		G	1.77	2.95	0.79	0.59	1.73	0.83	1.48	0.00	0.71	0.06
3	20	H	2.17	3.74	0.98	0.79	2.13	1.02	1.97	0.00	0.87	0.06
	25	H	2.17	3.74	0.98	0.79	2.13	1.02	1.97	0.10	1.10	0.06
		J	2.17	3.74	0.98	0.98	2.13	1.02	1.87	0.00	1.10	0.06

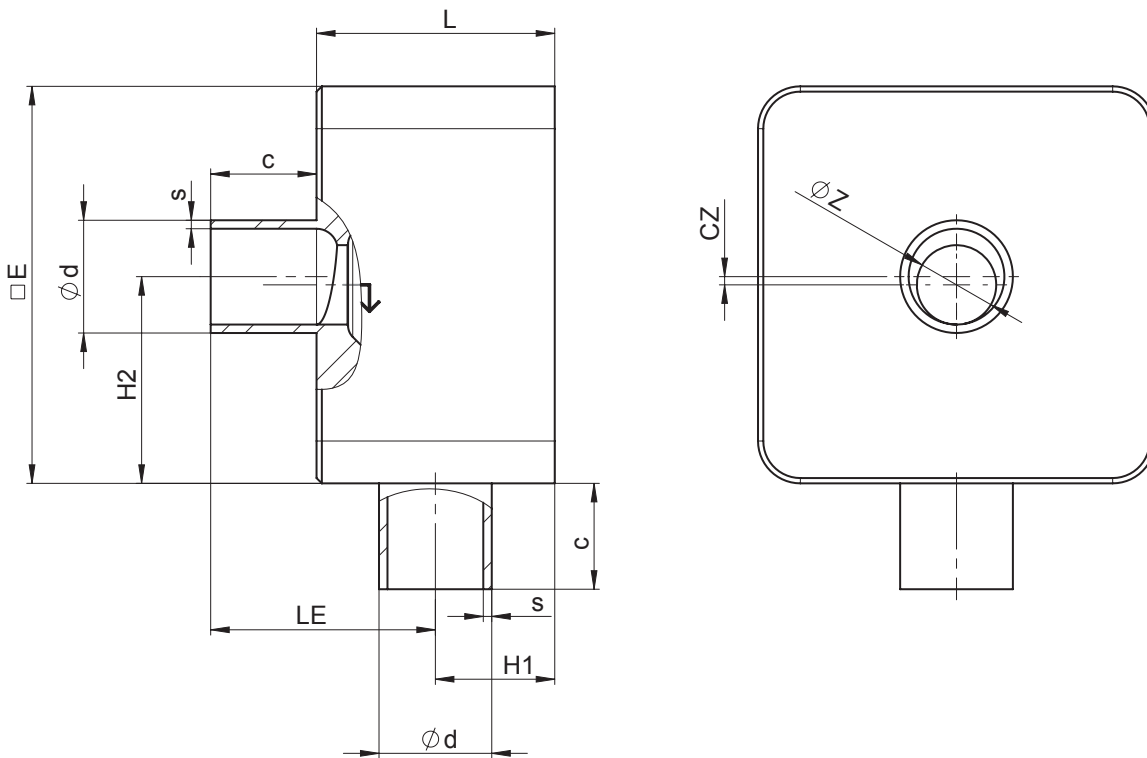
Dimensions in inch

AG = actuator size

1) **Connection type**

Code 0: Spigot DIN

Spigot without bypass code 17



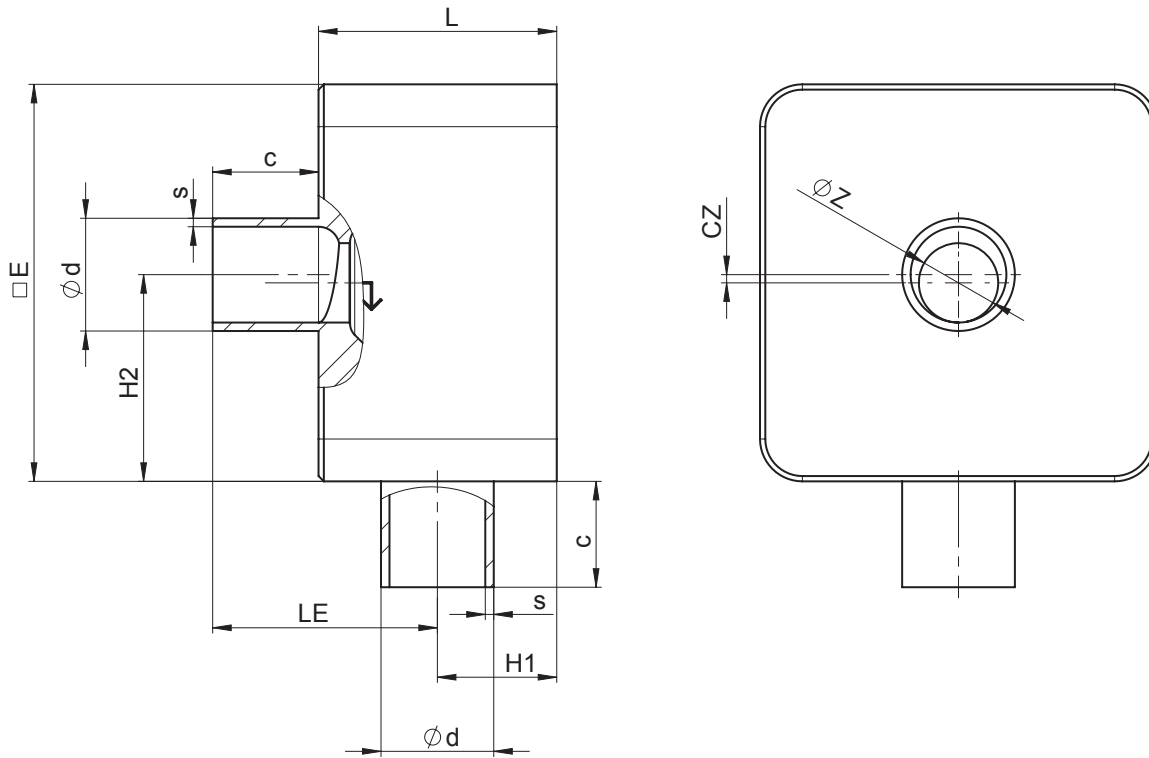
DN	Connection type code 17 ¹⁾										
	Seat size (code)	L	□E	c	∅z	LE	H1	H2	cz	∅d	s
8	A	1.77	2.95	0.79	0.08	1.87	0.69	1.59	0.12	0.39	0.04
	B	1.77	2.95	0.79	0.16	1.87	0.69	1.56	0.08	0.39	0.04
	C	1.77	2.95	0.79	0.24	1.87	0.69	1.52	0.04	0.39	0.04
10	A	1.77	2.95	0.79	0.08	1.83	0.73	1.63	0.16	0.51	0.06
	B	1.77	2.95	0.79	0.16	1.83	0.73	1.59	0.12	0.51	0.06
	C	1.77	2.95	0.79	0.24	1.83	0.73	1.56	0.08	0.51	0.06
	D	1.77	2.95	0.79	0.31	1.83	0.73	1.52	0.04	0.51	0.06
15	A	1.77	2.95	0.79	0.08	1.71	0.85	1.75	0.28	0.75	0.06
	B	1.77	2.95	0.79	0.16	1.71	0.85	1.71	0.24	0.75	0.06
	C	1.77	2.95	0.79	0.24	1.71	0.85	1.67	0.20	0.75	0.06
	D	1.77	2.95	0.79	0.31	1.71	0.85	1.63	0.16	0.75	0.06
	E	1.77	2.95	0.79	0.39	1.71	0.85	1.59	0.12	0.75	0.06
	G	1.77	2.95	0.79	0.59	1.71	0.85	1.50	0.02	0.75	0.06

Dimensions in inch

1) **Connection type**

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

Spigot without bypass code 59

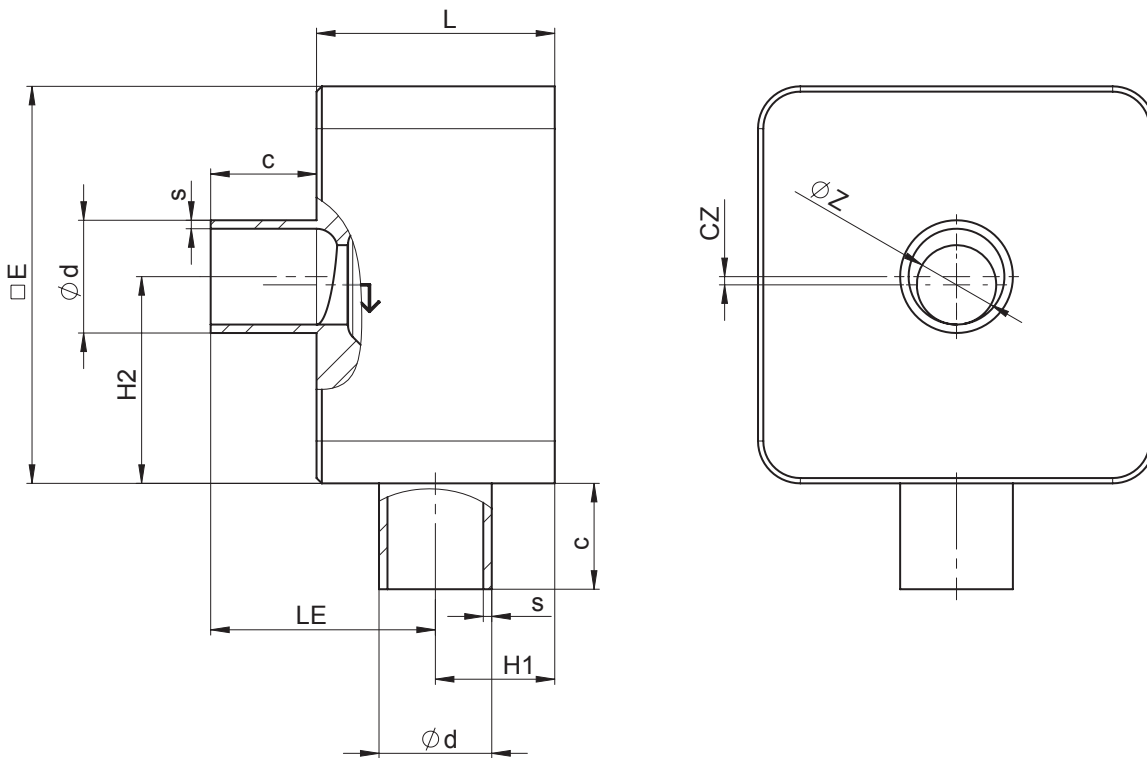


AG	DN	Connection type code 59 ¹⁾										
		Seat size (code)	L	□E	c	Øz	LE	H1	H2	cz	Ød	s
2	15	A	1.77	2.95	0.79	0.08	1.84	0.72	1.62	0.15	0.50	0.06
		B	1.77	2.95	0.79	0.16	1.84	0.72	1.58	0.11	0.50	0.06
		C	1.77	2.95	0.79	0.24	1.84	0.72	1.54	0.07	0.50	0.06
		D	1.77	2.95	0.79	0.31	1.84	0.72	1.50	0.03	0.50	0.06
	20	A	1.77	2.95	0.79	0.08	1.91	0.84	1.75	0.27	0.75	0.06
		B	1.77	2.95	0.79	0.16	1.72	0.84	1.71	0.23	0.75	0.06
		C	1.77	2.95	0.79	0.24	1.72	0.84	1.67	0.19	0.75	0.06
		D	1.77	2.95	0.79	0.31	1.72	0.84	1.63	0.15	0.75	0.06
		E	1.77	2.95	0.79	0.39	1.72	0.84	1.59	0.11	0.75	0.06
		G	1.77	2.95	0.79	0.59	1.72	0.84	1.49	0.01	0.75	0.06
3	25	H	2.17	3.74	0.98	0.79	2.18	0.97	1.91	0.04	1.00	0.06

Dimensions in inch
AG = actuator size

1) **Connection type**
Code 59: Spigot ASME BPE / DIN 11866 series C

Spigot without bypass code 60



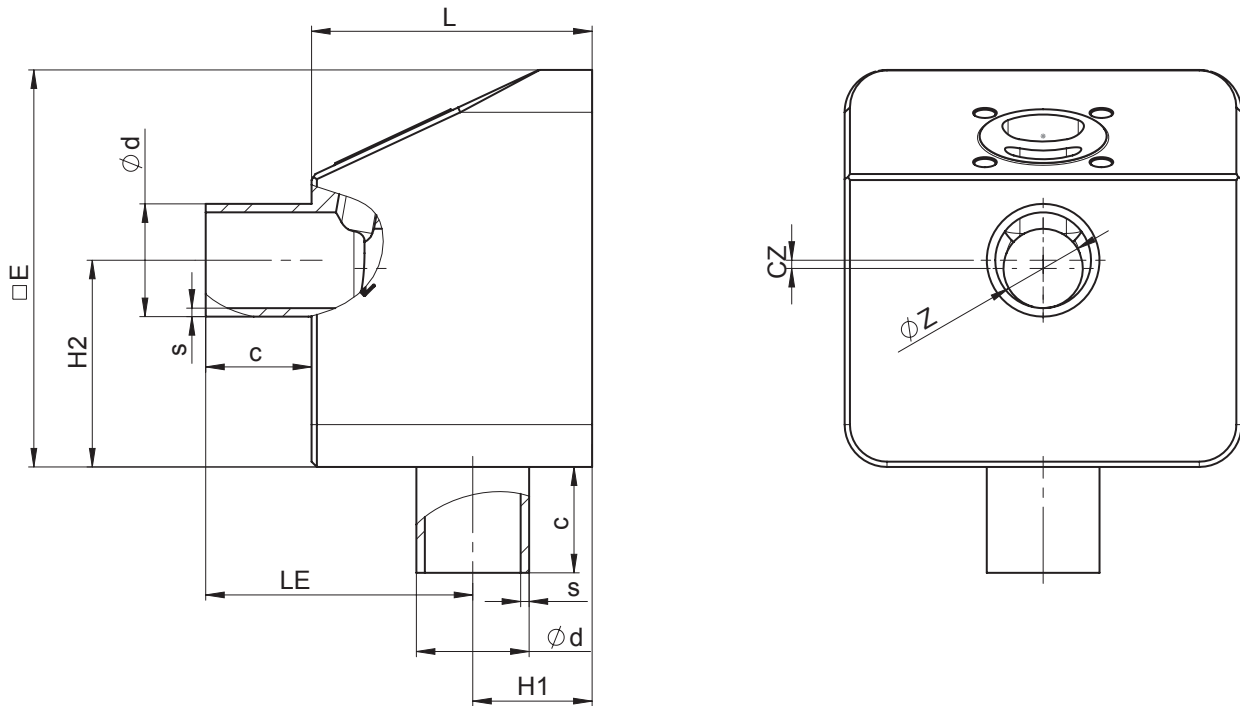
DN	Connection type code 60 ¹⁾										
	Seat size (code)	L	□E	c	Øz	LE	H1	H2	cz	Ød	s
8	A	1.77	2.95	0.79	0.08	1.82	0.74	1.64	0.16	0.53	0.06
	B	1.77	2.95	0.79	0.16	1.82	0.74	1.60	0.12	0.53	0.06
	C	1.77	2.95	0.79	0.24	1.82	0.74	1.56	0.08	0.53	0.06
10	A	1.77	2.95	0.79	0.08	1.75	0.81	1.71	0.24	0.68	0.06
	B	1.77	2.95	0.79	0.16	1.75	0.81	1.67	0.20	0.68	0.06
	C	1.77	2.95	0.79	0.24	1.75	0.81	1.63	0.16	0.68	0.06
	D	1.77	2.95	0.79	0.31	1.75	0.81	1.59	0.12	0.68	0.06
15	A	1.77	2.95	0.79	0.08	1.67	0.89	1.79	0.32	0.84	0.06
	B	1.77	2.95	0.79	0.16	1.67	0.89	1.75	0.28	0.84	0.06
	C	1.77	2.95	0.79	0.24	1.67	0.89	1.71	0.24	0.84	0.06
	D	1.77	2.95	0.79	0.31	1.67	0.89	1.68	0.20	0.84	0.06
	E	1.77	2.95	0.79	0.39	1.67	0.89	1.64	0.16	0.84	0.06
	G	1.77	2.95	0.79	0.59	1.67	0.89	1.54	0.06	0.84	0.06

Dimensions in inch

1) **Connection type**

Code 60: Spigot ISO 1127/EN 10357 series C/DIN 11866 series B

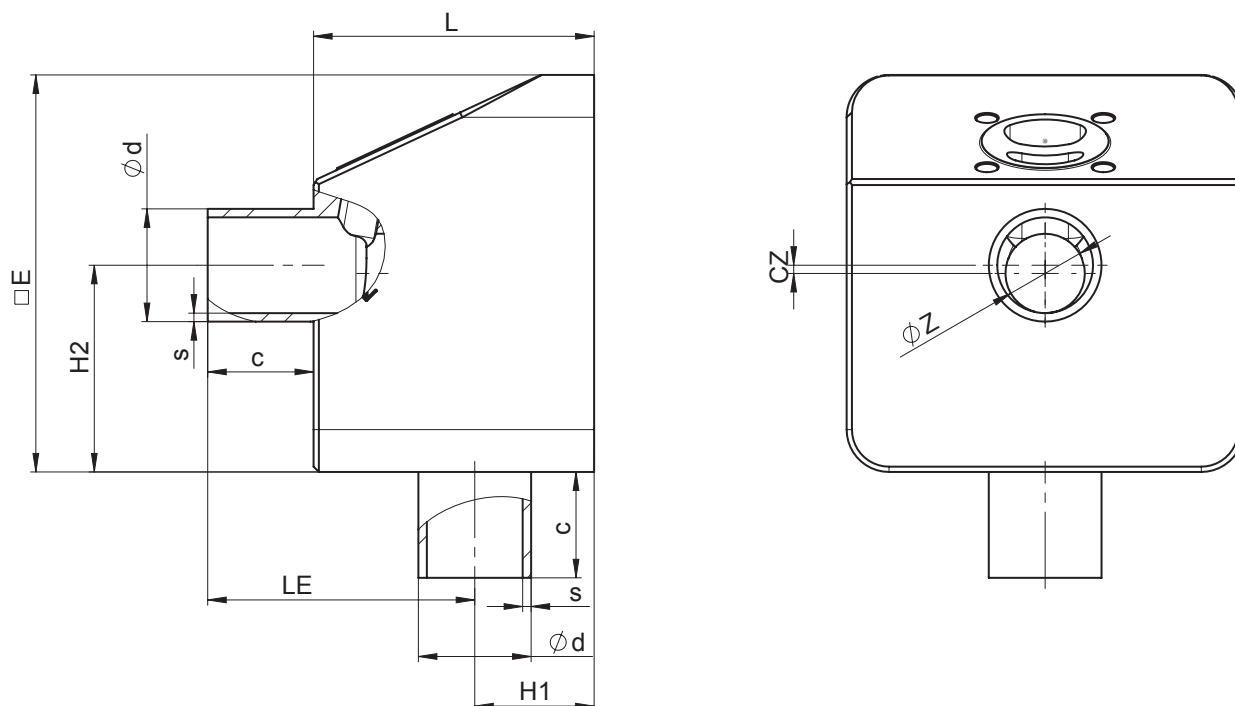
Spigot with bypass code 0



AG	DN	Connection type code 0 ¹⁾										
		Seat size (code)	L	$\square E$	c	$\varnothing z$	LE	H1	H2	cz	$\varnothing d$	s
2	15	A	20.87	29.53	7.87	0.79	20.47	8.27	17.32	2.56	7.09	0.59
		B	20.87	29.53	7.87	1.57	20.47	8.27	16.93	2.17	7.09	0.59
		C	20.87	29.53	7.87	2.36	20.47	8.27	16.54	1.77	7.09	0.59
		D	20.87	29.53	7.87	3.15	20.47	8.27	16.14	1.38	7.09	0.59
		E	20.87	29.53	7.87	3.94	20.47	8.27	15.75	0.98	7.09	0.59
		G	20.87	29.53	7.87	5.91	20.47	8.27	14.76	-	7.09	0.59

Dimensions in inch
AG = actuator size

1) **Connection type**
Code 0: Spigot DIN

Spigot with bypass code 17

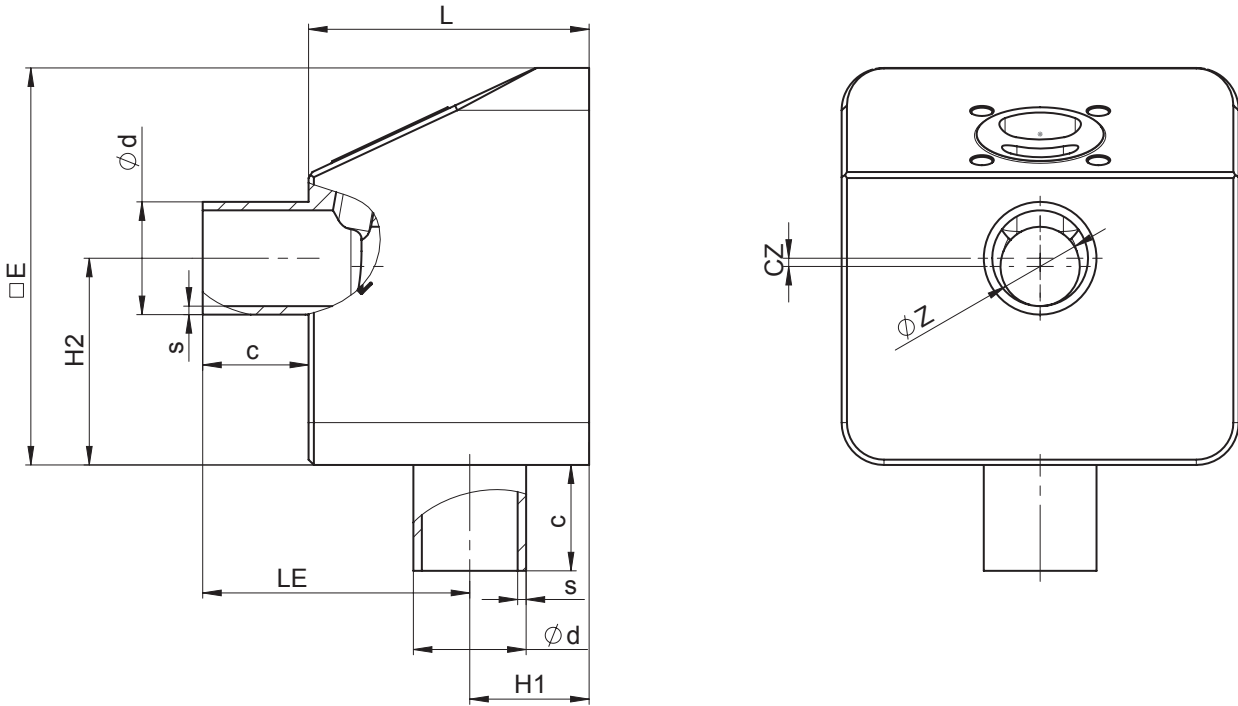
AG	DN	Connection type code 17 ¹⁾										
		Seat size (code)	L	□E	c	Øz	LE	H1	H2	cz	Ød	s
2	8	A	20.87	29.53	7.87	0.79	21.85	6.89	15.94	1.18	3.94	0.39
		B	20.87	29.53	7.87	1.57	21.85	6.89	15.55	0.79	3.94	0.39
		C	20.87	29.53	7.87	2.36	21.85	6.89	15.16	0.39	3.94	0.39
	10	A	20.87	29.53	7.87	0.79	21.46	7.28	16.34	1.57	5.12	0.59
		B	20.87	29.53	7.87	1.57	21.46	7.28	15.94	1.18	5.12	0.59
		C	20.87	29.53	7.87	2.36	21.46	7.28	15.55	0.79	5.12	0.59
		D	20.87	29.53	7.87	3.15	21.46	7.28	15.16	0.39	5.12	0.59
	15	A	20.87	29.53	7.87	0.79	20.28	8.46	17.52	2.76	7.48	0.59
		B	20.87	29.53	7.87	1.57	20.28	8.46	17.13	2.36	7.48	0.59
		C	20.87	29.53	7.87	2.36	20.28	8.46	16.73	1.97	7.48	0.59
		D	20.87	29.53	7.87	3.15	20.28	8.46	16.34	1.57	7.48	0.59
		E	20.87	29.53	7.87	3.94	20.28	8.46	15.94	1.18	7.48	0.59
		G	20.87	29.53	7.87	5.91	20.28	8.46	14.96	0.20	7.48	0.59

Dimensions in inch
AG = actuator size

1) Connection type

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

Spigot with bypass code 59



AG	DN	Connection type code 59 ¹⁾										
		Seat size (code)	L	□E	c	∅z	LE	H1	H2	cz	∅d	s
2	15	A	20.87	29.53	7.87	0.79	21.57	7.17	162.20	14.57	50.00	6.50
		B	20.87	29.53	7.87	1.57	21.57	7.17	158.27	10.63	50.00	6.50
		C	20.87	29.53	7.87	2.36	21.57	7.17	154.33	6.69	50.00	6.50
		D	20.87	29.53	7.87	3.15	21.57	7.17	150.39	2.76	50.00	6.50
	20	A	20.87	29.53	7.87	0.79	20.31	8.43	174.72	14.57	50.00	6.50
		B	20.87	29.53	7.87	1.57	20.31	8.43	170.79	10.63	50.00	6.50
		C	20.87	29.53	7.87	2.36	20.31	8.43	166.85	6.69	50.00	6.50
		D	20.87	29.53	7.87	3.15	20.31	8.43	162.91	2.76	50.00	6.50
		E	20.87	29.53	7.87	3.94	20.31	8.43	158.98	11.34	75.00	6.50
		G	20.87	29.53	7.87	5.91	20.31	8.43	149.13	1.50	75.00	6.50

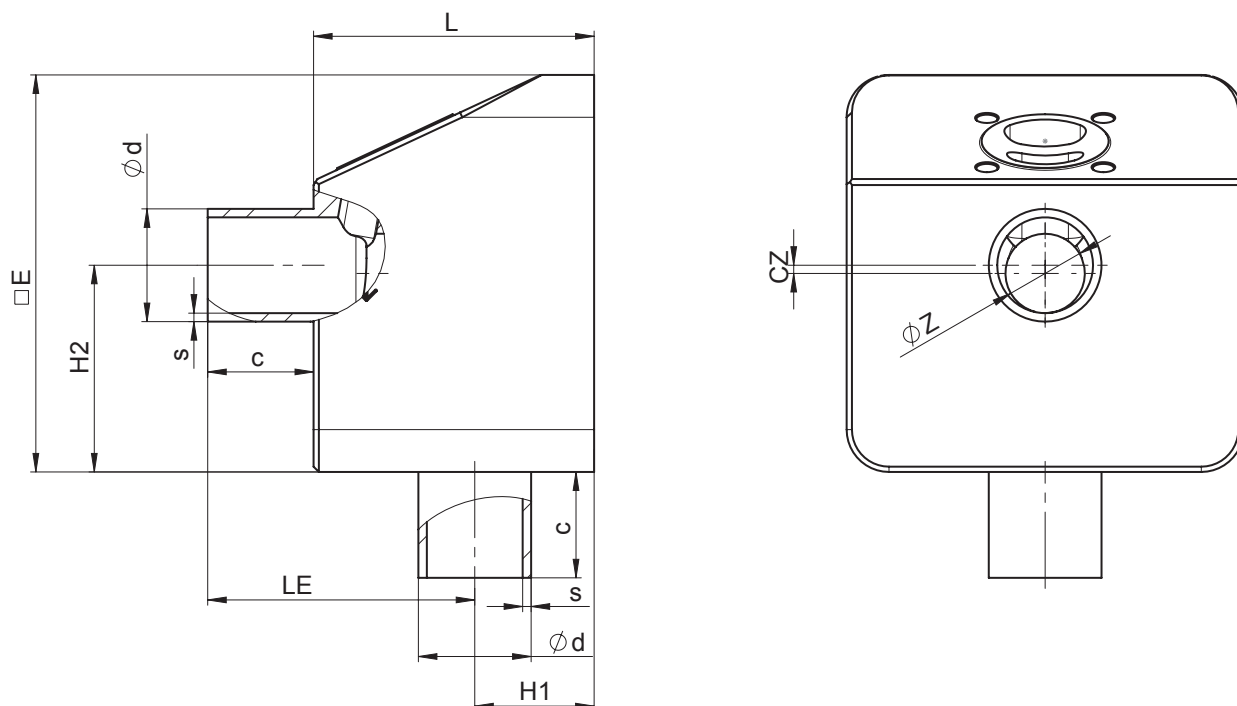
Dimensions in inch

AG = actuator size

1) **Connection type**

Code 59: Spigot ASME BPE / DIN 11866 series C

Spigot with bypass code 60



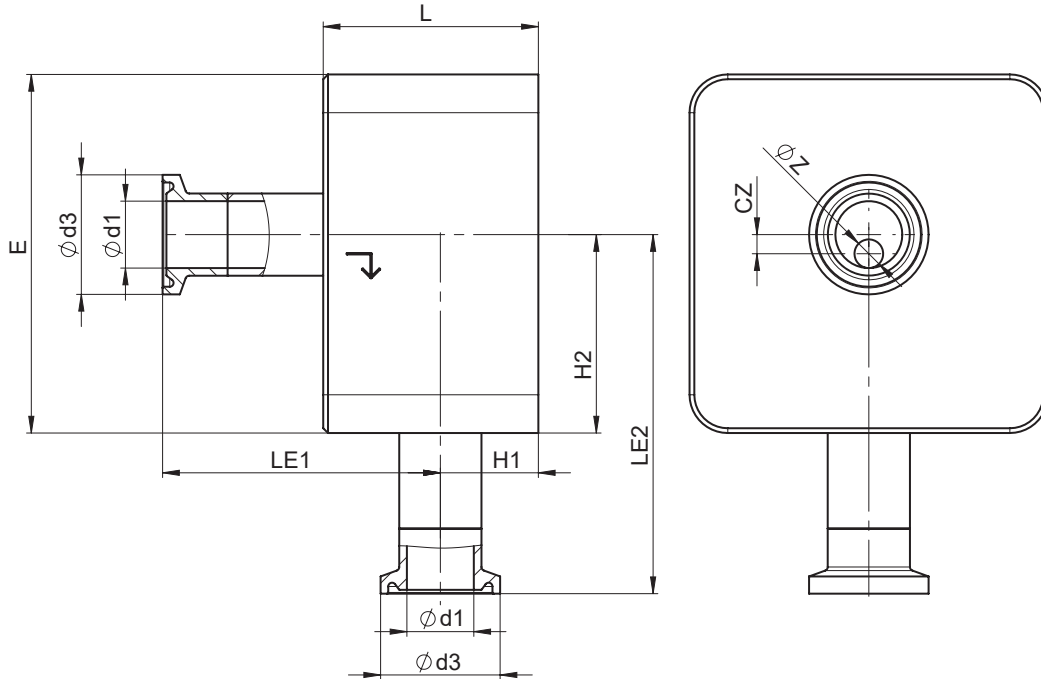
AG	DN	Connection type code 60 ¹⁾										
		Seat size (code)	L	□E	c	Øz	LE	H1	H2	cz	Ød	s
2	8	A	20.87	29.53	7.87	0.79	21.38	7.36	163.98	16.34	5.31	0.63
		B	20.87	29.53	7.87	1.57	21.38	7.36	160.04	12.40	5.31	0.63
		C	20.87	29.53	7.87	2.36	21.38	7.36	156.10	8.46	5.31	0.63
	10	A	20.87	29.53	7.87	0.79	20.67	8.15	171.26	23.62	6.77	0.63
		B	20.87	29.53	7.87	1.57	20.67	8.15	167.32	19.69	6.77	0.63
		C	20.87	29.53	7.87	2.36	20.67	8.07	163.39	15.75	6.77	0.63
		D	20.87	29.53	7.87	3.15	20.67	8.07	159.45	11.81	6.77	0.63
	15	A	20.87	29.53	7.87	0.79	19.84	8.90	179.33	31.69	8.39	0.63
		B	20.87	29.53	7.87	1.57	19.84	8.90	175.39	27.76	8.39	0.63
		C	20.87	29.53	7.87	2.36	19.84	8.90	171.46	23.82	8.39	0.63
		D	20.87	29.53	7.87	3.15	19.84	8.90	167.52	19.88	8.39	0.63
		E	20.87	29.53	7.87	3.94	19.84	8.90	163.58	15.94	8.39	0.63
		G	20.87	29.53	7.87	5.91	19.84	8.90	153.74	6.10	8.39	0.63

Dimensions in inch
AG = actuator size

1) **Connection type**

Code 60: Spigot ISO 1127/EN 10357 series C/DIN 11866 series B

Clamp without bypass code 82



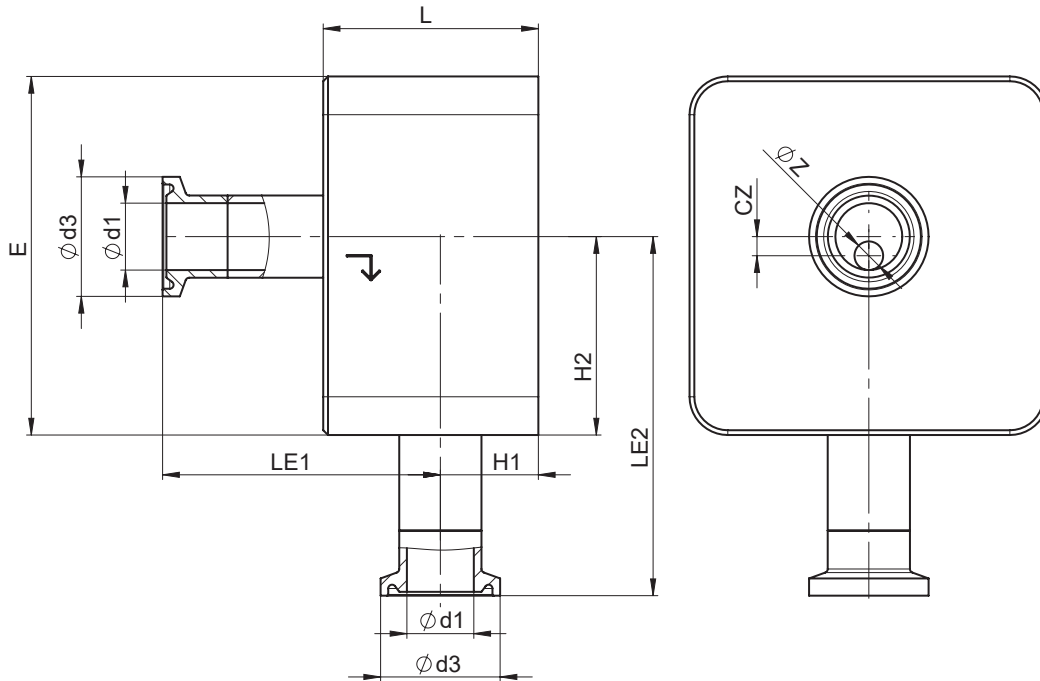
DN	Connection type code 82 ¹⁾										
	Seat-size (code)	L	□E	Øz	LE1	LE2	H1	H2	cz	Ød1	Ød3
8	A	1.77	2.95	0.08	2.33	2.94	0.74	1.64	0.16	0.41	1.00
	B	1.77	2.95	0.16	2.33	2.90	0.74	1.60	0.12	0.41	1.00
	C	1.77	2.95	0.24	2.33	2.86	0.74	1.56	0.08	0.41	1.00
10	A	1.77	2.95	0.08	2.26	3.01	0.81	1.71	0.24	0.55	1.00
	B	1.77	2.95	0.16	2.26	2.97	0.81	1.67	0.20	0.55	1.00
	C	1.77	2.95	0.24	2.26	2.93	0.81	1.63	0.16	0.55	1.00
	D	1.77	2.95	0.31	2.26	2.89	0.81	1.59	0.12	0.55	1.00
15	A	1.77	2.95	0.08	2.18	3.09	0.89	1.79	0.32	0.71	1.99
	B	1.77	2.95	0.16	2.18	3.05	0.89	1.75	0.28	0.71	1.99
	C	1.77	2.95	0.24	2.18	3.01	0.89	1.71	0.24	0.71	1.99
	D	1.77	2.95	0.31	2.18	2.97	0.89	1.68	0.20	0.71	1.99
	E	1.77	2.95	0.39	2.18	2.94	0.89	1.64	0.16	0.71	1.99
	G	1.77	2.95	0.59	2.18	2.84	0.89	1.54	0.06	0.71	1.99

Dimensions in inch

1) **Connection type**

Code 82: Clamp DIN 32676 series B

Clamp without bypass code 86



AG	DN	Connection type code 86 ¹⁾										
		Seat size (code)	L	□E	Øz	LE1	LE2	H1	H2	cz	Ød1	Ød3
2	8	A	1.77	2.95	0.08	2.38	2.89	0.69	1.59	0.12	0.31	0.98
		B	1.77	2.95	0.16	2.38	2.85	0.69	1.56	0.08	0.31	0.98
		C	1.77	2.95	0.24	2.38	2.81	0.69	1.52	0.04	0.31	0.98
	10	A	1.77	2.95	0.08	2.34	2.93	0.73	1.63	0.16	0.39	1.34
		B	1.77	2.95	0.16	2.34	2.89	0.73	1.59	0.12	0.39	1.34
		C	1.77	2.95	0.24	2.34	2.85	0.73	1.56	0.08	0.39	1.34
		D	1.77	2.95	0.31	2.34	2.81	0.73	1.52	0.04	0.39	1.34
	15	A	1.77	2.95	0.08	2.22	3.05	0.85	1.75	0.28	0.63	1.34
		B	1.77	2.95	0.16	2.22	3.01	0.85	1.71	0.24	0.63	1.34
		C	1.77	2.95	0.24	2.22	2.97	0.85	1.67	0.20	0.63	1.34
		D	1.77	2.95	0.31	2.22	2.93	0.85	1.63	0.16	0.63	1.34
		E	1.77	2.95	0.39	2.22	2.89	0.85	1.59	0.12	0.63	1.34
3	20	H	2.17	3.74	0.79	2.74	3.37	0.91	1.87	0.00	0.79	1.34
		J	2.17	3.74	0.98	2.56	3.48	1.11	1.87	0.00	1.02	1.99
	25	H	2.17	3.74	0.79	2.56	3.46	1.11	1.97	0.10	1.02	1.99

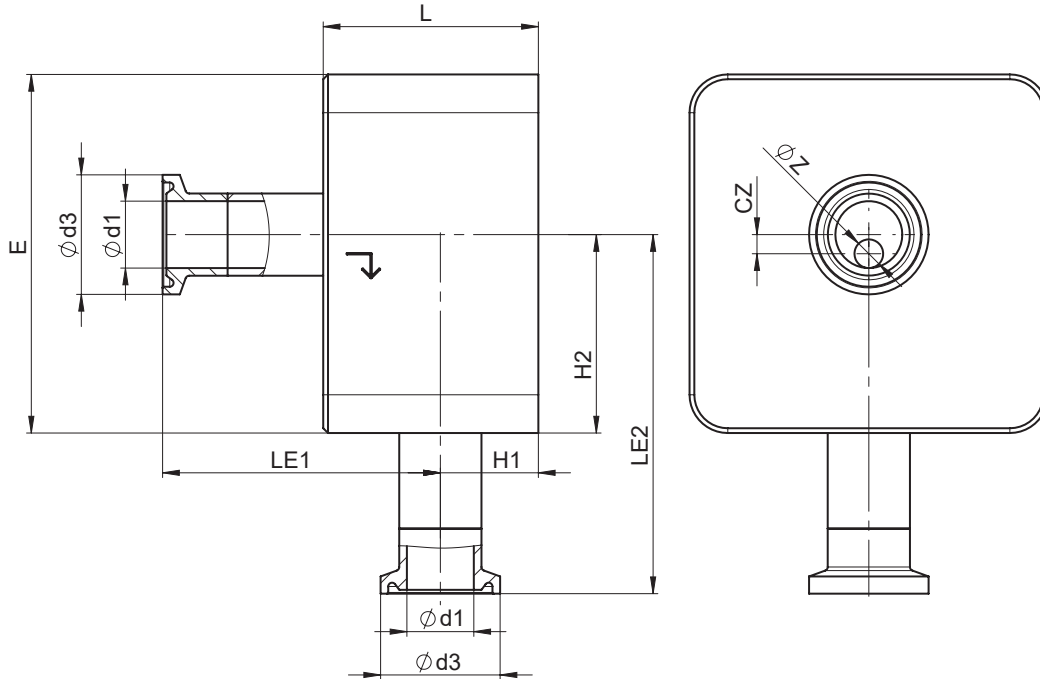
Dimensions in inch

AG = actuator size

1) **Connection type**

Code 86: Clamp DIN 32676 series A

Clamp without bypass code 88



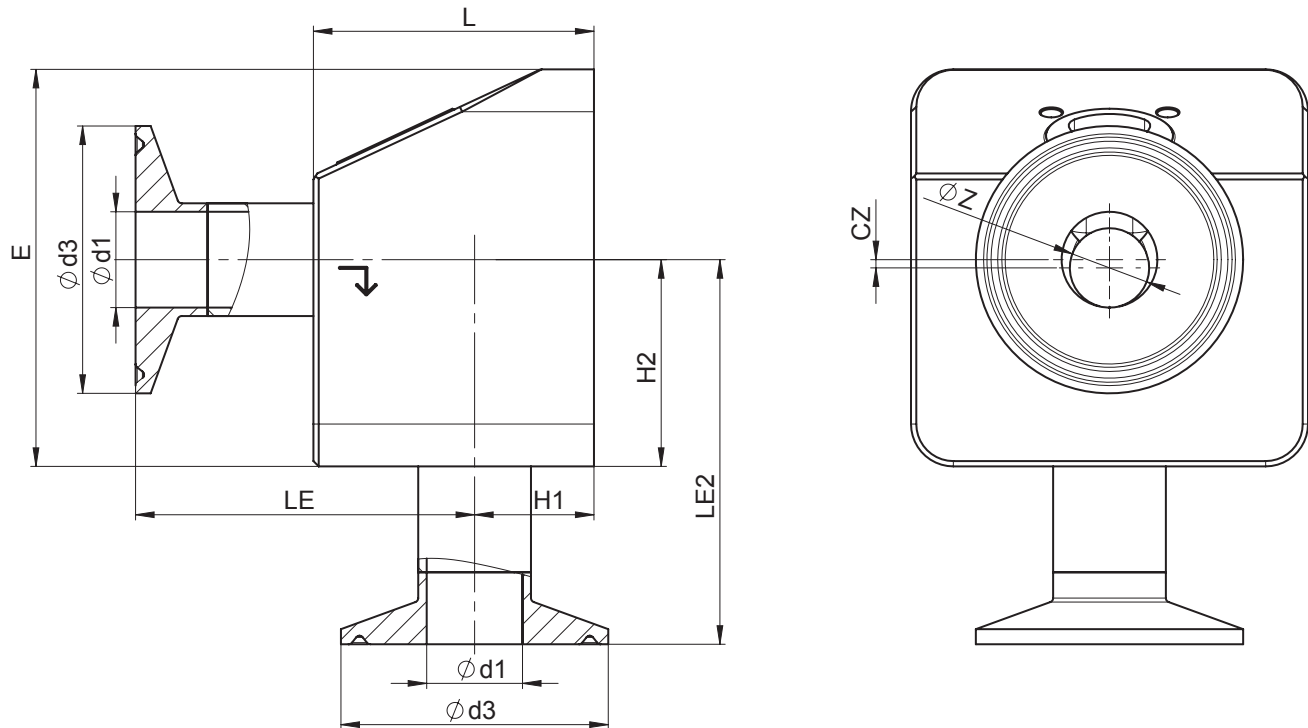
AG	DN	Connection type code 88 ¹⁾										
		Seat size (code)	L	□E	Øz	LE1	LE2	H1	H2	cz	Ød1	Ød3
2	15	A	1.77	2.95	0.08	2.35	2.92	0.72	1.62	0.15	0.37	0.98
		B	1.77	2.95	0.16	2.35	2.88	0.72	1.58	0.11	0.37	0.98
		C	1.77	2.95	0.24	2.35	2.84	0.72	1.54	0.07	0.37	0.98
		D	1.77	2.95	0.31	2.35	2.80	0.72	1.50	0.03	0.37	0.98
	20	A	1.77	2.95	0.08	2.22	3.05	0.84	1.75	0.27	0.62	0.98
		B	1.77	2.95	0.16	2.22	3.01	0.84	1.71	0.23	0.62	0.98
		C	1.77	2.95	0.24	2.22	2.97	0.84	1.67	0.19	0.62	0.98
		D	1.77	2.95	0.31	2.22	2.93	0.84	1.63	0.15	0.62	0.98
		E	1.77	2.95	0.39	2.22	2.89	0.84	1.59	0.11	0.62	0.98
		G	1.77	2.95	0.59	2.22	2.79	0.84	1.49	0.01	0.62	0.98
3	25	H	2.17	3.74	0.79	2.63	3.45	1.04	1.91	0.04	0.87	1.99

Dimensions in inch

AG = actuator size

- 1) **Connection type**
Code 88: Clamp ASME BPE

Clamp with bypass code 82



AG	DN	Connection type code 82 ¹⁾										
		Seat size (code)	L	□E	Øz	LE1	LE2	H1	H2	cz	Ød1	Ød3
2	8	A	20.87	29.53	0.79	26.50	293.90	7.36	163.98	16.34	4.06	10.00
		B	20.87	29.53	1.57	26.50	289.96	7.36	160.04	12.40	4.06	10.00
		C	20.87	29.53	2.36	26.50	286.02	7.36	156.10	8.46	4.06	10.00
	10	A	20.87	29.53	0.79	25.79	301.18	8.07	171.26	23.62	5.51	10.00
		B	20.87	29.53	1.57	25.79	297.24	8.07	167.32	19.69	5.51	10.00
		C	20.87	29.53	2.36	25.79	293.31	8.07	163.38	15.75	5.51	10.00
		D	20.87	29.53	3.15	25.79	289.37	8.07	159.44	11.81	5.51	10.00
	15	A	20.87	29.53	0.79	24.96	309.25	8.90	179.33	31.69	7.13	19.88
		B	20.87	29.53	1.57	24.96	305.31	8.90	175.39	27.76	7.13	19.88
		C	20.87	29.53	2.36	24.96	301.38	8.90	171.46	23.82	7.13	19.88
		D	20.87	29.53	3.15	24.96	297.44	8.90	167.52	19.88	7.13	19.88
		E	20.87	29.53	3.94	24.96	293.50	8.90	163.58	15.94	7.13	19.88
		G	20.87	29.53	5.91	24.96	283.66	8.90	153.74	6.10	7.13	19.88

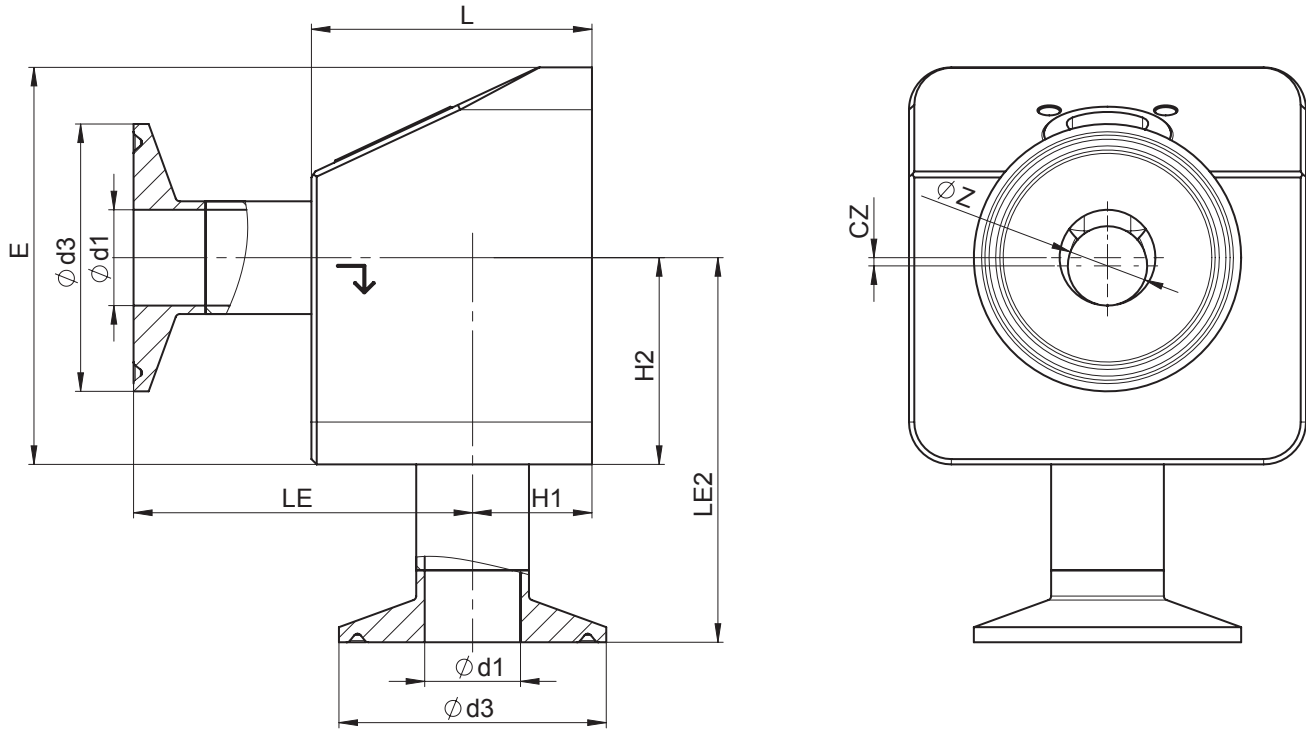
Dimensions in inch

AG = actuator size

1) **Connection type**

Code 82: Clamp DIN 32676 series B

Clamp with bypass code 86



AG	DN	Connection type code 86 ¹⁾										
		Seat size (code)	L	□E	Øz	LE1	LE2	H1	H2	cz	Ød1	Ød3
2	8	A	20.87	29.53	0.79	26.97	28.94	6.89	15.94	1.18	3.15	9.84
		B	20.87	29.53	1.57	26.97	28.54	6.89	15.55	0.79	3.15	9.84
		C	20.87	29.53	2.36	26.97	28.15	6.89	15.16	0.39	3.15	9.84
	10	A	20.87	29.53	0.79	26.57	29.33	7.28	16.34	1.57	3.94	13.39
		B	20.87	29.53	1.57	26.57	28.94	7.28	15.94	1.18	3.94	13.39
		C	20.87	29.53	2.36	26.57	28.54	7.28	15.55	0.79	3.94	13.39
		D	20.87	29.53	3.15	26.57	28.15	7.28	15.16	0.39	3.94	13.39
	15	A	20.87	29.53	0.79	25.39	30.51	8.46	17.52	2.76	6.30	13.39
		B	20.87	29.53	1.57	25.39	30.12	8.46	17.13	2.36	6.30	13.39
		C	20.87	29.53	2.36	25.39	29.72	8.46	16.73	1.97	6.30	13.39
		D	20.87	29.53	3.15	25.39	29.33	8.46	16.34	1.57	6.30	13.39
		E	20.87	29.53	3.94	25.39	28.94	8.46	15.94	1.18	6.30	13.39
		G	20.87	29.53	5.91	25.39	27.95	8.46	14.96	0.20	6.30	13.39

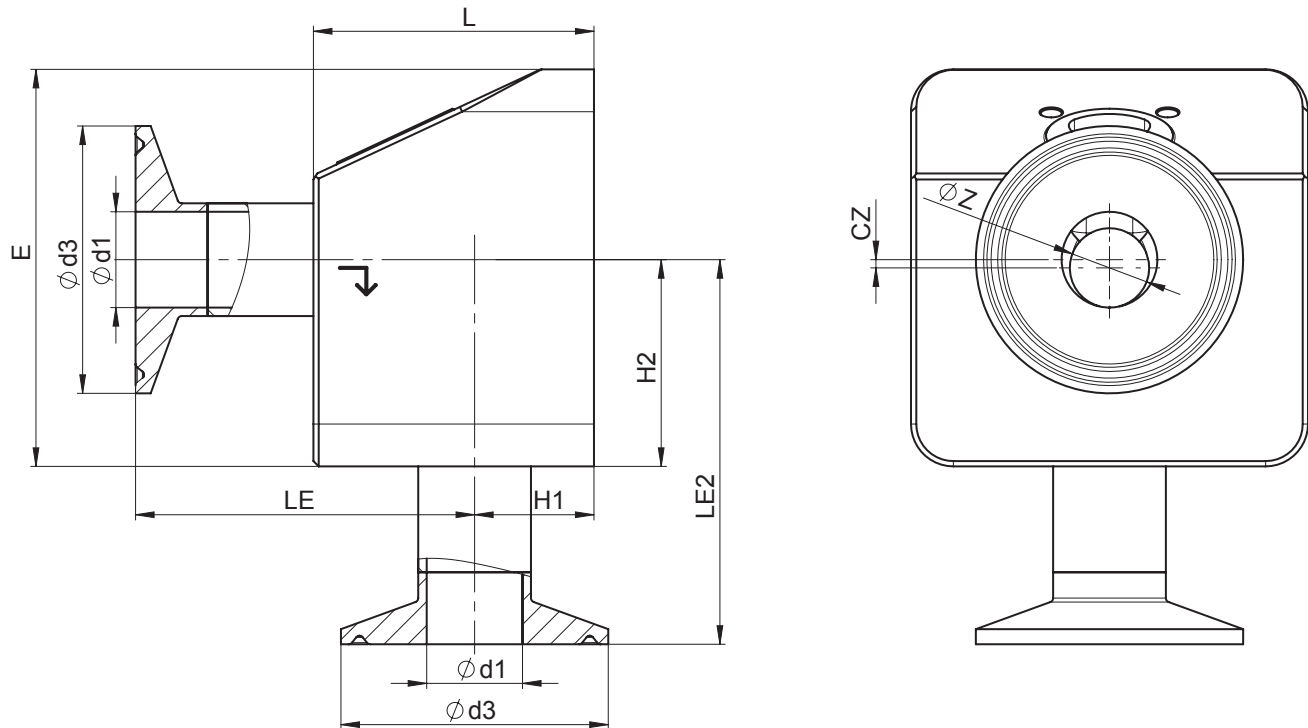
Dimensions in inch

AG = actuator size

1) **Connection type**

Code 86: Clamp DIN 32676 series A

Clamp with bypass code 88



AG	DN	Connection type code 88 ¹⁾										
		Seat size (code)	L	□E	Øz	LE1	LE2	H1	H2	cz	Ød1	Ød3
2	15	A	20.87	29.53	0.79	26.69	292.13	7.17	162.20	14.57	37.01	9.84
		B	20.87	29.53	1.57	26.69	288.19	7.17	158.27	10.63	37.01	9.84
		C	20.87	29.53	2.36	26.69	284.25	7.17	154.33	6.69	37.01	9.84
		D	20.87	29.53	3.15	26.69	280.31	7.17	150.39	2.76	37.01	9.84
	20	A	20.87	29.53	0.79	25.43	304.65	8.43	174.72	27.09	62.01	9.84
		B	20.87	29.53	1.57	25.43	300.71	8.43	170.79	23.15	62.01	9.84
		C	20.87	29.53	2.36	25.43	296.77	8.43	166.85	19.21	62.01	9.84
		D	20.87	29.53	3.15	25.43	292.83	8.43	162.91	15.28	62.01	9.84
		E	20.87	29.53	3.94	25.43	288.90	8.43	158.98	11.34	62.01	9.84
		G	20.87	29.53	5.91	25.43	279.06	8.43	149.13	1.50	62.01	9.84

Dimensions in inch

AG = actuator size

1) **Connection type**

Code 88: Clamp ASME BPE

servoDrive accessories



GEMÜ 1282

Controller for GEMÜ servoDrive actuators

The GEMÜ 1282 controller is an intelligent actuator amplifier for the control of valves with a motorized GEMÜ servoDrive actuator. It is available in various designs for local installation in the system, as well as for central installation in the control cabinet. The controller is absolutely essential to operating the GEMÜ F60 servoDrive and GEMÜ 567 servoDrive valves.

GEMÜ 1282 controller - IP20 version		
Description	Order code	Item number
Controller with Multi-Ethernet interface	1282 MEZ20 C1	88742953

GEMÜ 1282 controller - IP65 version		
Description	Order code	Item number
Controller with Multi-Ethernet interface	1282 MEZ65 C1	88742959

Overview 1282 IP20



Overview 1282 IP65



GEMÜ 1219

Connection cables

The **GEMÜ 1219** connection cables connect the valve to the servoDrive controller, the power supply or the plant control system.

Connection cables for the GEMÜ 1282 controller - IP20 version				
Description	Order code	Length	Necessity	Item number
Motor connection cable	1219000Z0300D G05M0IC15	5 m	required	88756499



GEMÜ 1219

Connection cables

The **GEMÜ 1219** 1219 connection cables connect the valve to the servoDrive controller, the power supply or the plant control system.

Connection cables for the GEMÜ 1282 controller - IP20 version				
Description	Order code	Length	Necessity	Item number
Motor connection cable extension	1219000Z03DGS-G05M0IC15	5 m	optional	88756498

Connection cables for the GEMÜ 1282 controller - IP65 version				
Description	Order code	Length	Necessity	Item number
Power supply cable	1219000Z0300D G05M0IC09	5 m	required	88756497
Motor connection cable extension	1219000Z0300D G05M0IC09	5 m	optional	88756498
Network cable M12-RJ45	1219000Z00RJS-G01M0M124D	1 m	optional	88450499
Network cable M12-RJ45	1219000Z00RJS-G04M0M124D	4 m	required	88450500
Network cable M12-RJ45	1219000Z00RJS-G15M0M124D	15 m	optional	88450502
Fieldbus cable M12-M12	1219000Z00SGS-G02M0M124D	2 m	optional	88783860
Fieldbus cable M12-M12	1219000Z00SGS-G05M0M124D	5 m	optional	88585104
Commissioning diagnostic cable USB	1219000Z03UAS-G03M0M125A	3 m	required	88756500
Cable for digital inputs/outputs M12-8pin	1219000Z0000D G05M0M128A	5 m	required	88758155



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.

Ordering information

Input voltage	Output voltage	Output current	Item number
100 - 240 V AC	48 V DC	10 A	88667801



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