

GEMÜ 550

Pneumatically operated angle seat globe valve



Features

- Suitable for shut-off and control functions for gaseous, liquid and viscous media
- Suitable for vacuum up to 0.6 inhg (a)
- Wide range of adaptation options for add-on components and accessories
- Free from non-ferrous metals
- Optional for food contact according to Regulation (EC) No. 1935/2004
- Particularly compact design, actuator size 0G1/0M1

Description

The GEMÜ 550 2/2-way angle seat globe valve has a low-maintenance stainless steel piston actuator and is pneumatically operated. 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.

Technical specifications

- **Media temperature:** -40 to 410 °F
- **Ambient temperature:** -40 to 140 °F
- **Operating pressure :** 0 to 363 psi
- **Nominal sizes:** 1/8" (DN 6) to 3" (DN 80)
- **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), block material | 1.4435 (316L), forged material | 1.4435, investment casting material
- **Seat seal materials:** 1.4404 | PTFE | PTFE, reinforced
- **Conformities:** ATEX | CRN | EAC | FDA | FMEDA | Oxygen | Reg. (EU) No. 10/2011 | Regulation (EC) No. 1935/2004 | Regulation (EC) No. 2023/2006 | TA Luft (German Clean Air Act) | USP

Technical data depends on the respective configuration

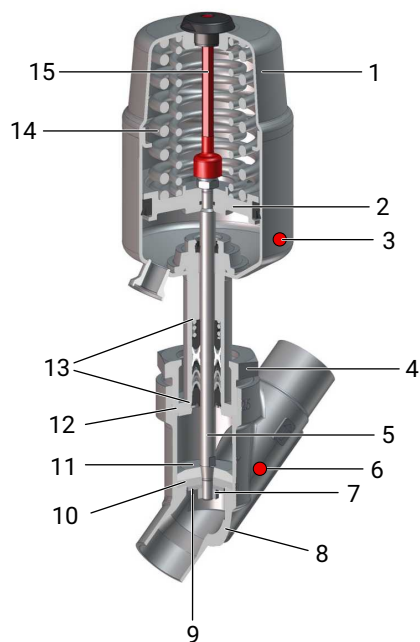


further information
webcode: GW-550



Product description

Construction

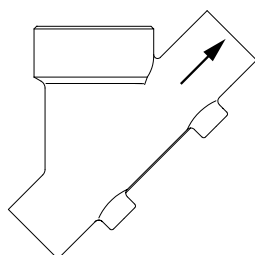


Position	Name	Materials
1	Actuator*	Stainless steel
2	Piston	
3	CONEXO actuator RFID chip (see Conexo information)	
4	Union nut	Stainless steel
5	Spindle	Stainless steel
6	CONEXO body RFID chip (see Conexo information)	
7	Nut	Stainless steel
8	Valve body*	1.4408 investment casting 1.4435 investment casting 1.4435 (F316L), forged body
9	Retaining washer	Stainless steel
10	Seat seal*	PTFE, 1.4404
11	Valve plug	Stainless steel
12	Sealing washer*	PTFE, PTFE glass fibre reinforced
13	Gland packing	PTFE - PTFE
14	Compression spring(s)	
15	Optical position indicator	Plastic

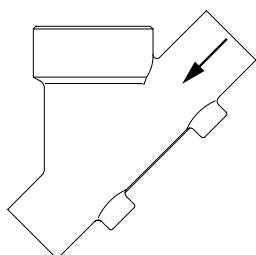
*These components are available as spare parts (see the "Spare parts" chapter in the operating instructions).

Flow direction

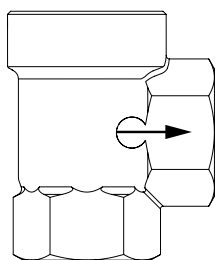
The flow direction is indicated by an arrow on the valve body.



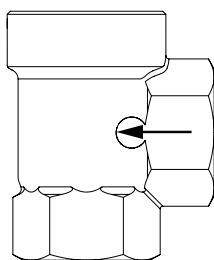
2/2-way body
under the seat



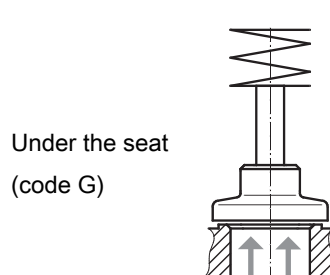
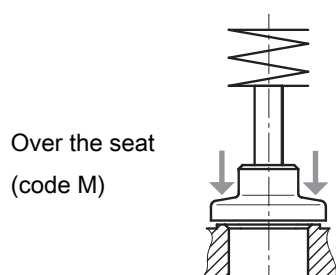
2/2-way body
over the seat



Angle valve body
under the seat



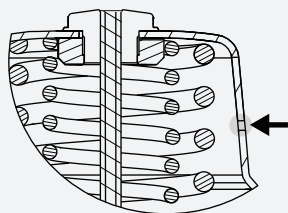
Angle valve body
over the seat



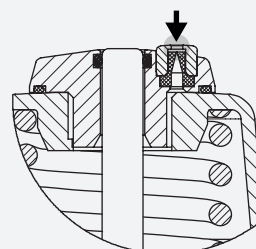
Under the seat (code G) is the preferred flow direction with incompressible liquid media to avoid water hammer
Over the seat (code M) only with control function - Normally closed (NC)

Vent hole in the actuator

To vent the control medium, the pneumatic actuator has a vent hole that is located on the side of the actuator housing (control function normally closed). In certain areas of application (e.g. the foodstuff industry), dirty water or cleaning media could enter through this vent hole and penetrate the actuator, thereby adversely affecting correct operation. A special vent system with lip check valve is available for these applications, which prevents such functional impairment. The vent hole at the side is then closed.



Standard vent hole



Special vent system K-no. 6996

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 actuators

For connection type code 10

DN	Actuator version					
	0..	1..	2..	3..	4..	5..
15	-	X	X	-	-	-
20	-	X	X	X	-	-
25	-	-	X	X	X	-
32	-	-	X	-	-	-
40	-	-	-	-	X	-
50	-	-	-	X	X	-

For all connection types, except connection type code 10

DN	Actuator version					
	0..	1..	2..	3..	4..	5..
6	X	-	-	-	-	-
8	X	X	X	-	-	-
10	X	X	X	-	-	-
15	X	X	X	-	-	-
20	-	X	X	X	-	-
25	-	-	X	X	X	-
32	-	-	X	X	X	X
40	-	-	-	X	X	X
50	-	-	-	X	X	X
65	-	-	-	-	-	X
80	-	-	-	-	-	X

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
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, actuator size 1, 2, 3, 4, 5

DN	Connection type code ¹⁾												
	0	16	17			37		59			60		
	Material code ²⁾												
	34	34	34	37	C2	34	37	34	37	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
65	-	-	-	X	X	-	X	-	X	X	-	X	X
80	-	-	-	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

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, actuator size 1, 2, 3, 4, 5

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
65	X	X	X	X
80	X	X	X	X

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

3) Housing configuration

Code D: 2/2-way body

Code E: Angle valve body

Flange, actuator size 1, 2, 3, 4, 5

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	X
40	X	X	X
50	X	X	X

X = Standard

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, actuator size 1, 2, 3, 4, 5

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

X = Standard

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 34: 1.4435, investment casting

Code C2: 1.4435, investment casting

Availability for gas applications (special function G)

Configuration options for actuators

Nominal sizes	Actuator sizes	
	2M1	3M1
DN 15	●	-
DN 20	●	-
DN 25	●	-
DN 32	-	●
DN 40	-	●
DN 50	-	●

Configuration options for valve bodies

Nominal size	Connection types		
	1	17	60
DN 15	●	●	●
DN 20	●	●	●
DN 25	●	●	●
DN 32	●	●	●
DN 40	●	●	●
DN 50	●	●	●

Availabilities for food-related applications

Seat seal code ¹⁾	Valve body material code ²⁾			
	34	37	40	C2
5	X	X	X	X
5G	X	X	X	X
5P	X	X	X	X

1) Seat seal

Code 5: PTFE

Code 5G: PTFE, glass fibre reinforced

Code 5P: PTFE USP Class VI

2) Valve body material

Code 34: 1.4435, investment casting

Code 37: 1.4408, investment casting

Code 40: 1.4435 (F316L), forged body

Code C2: 1.4435, investment casting

Design

Design	
Grade of surface finish (code 1903, 1904, 1909, 1953, 1954 and 1959) as per order data	Valve body material (code C2)
Media temperature 14 to 410 °C (code 2023)	Seat seal (code 5G, 10)
For contact with foodstuffs, the product must be ordered with the following ordering options	Seat seal (code 5, 5G, 5P, 10) Valve body material (code 34, 37, 40, C2)

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, pneumatically operated, stainless steel piston actuator	550

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
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 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
Note: A surface finish from the order code table "Type of design" must be specified for valve body material C2.	

6 Seat seal	Code
PTFE	5
PTFE, glass fibre reinforced	5G
PTFE USP Class VI	5P
1.4404	10

7 Control function	Code
Normally closed (NC)	1
Normally open (NO)	2
Double acting (DA)	3

8 Actuator version	Code
Actuator size 0G1	0G1
Actuator size 0M1	0M1
Actuator size 1G1	1G1
Actuator size 1M1	1M1
Actuator size 2G1	2G1
Actuator size 2M1	2M1
Actuator size 3G1	3G1
Actuator size 3M1	3M1
Actuator size 4G1	4G1
Actuator size 5G1	5G1

9 Type of design	Code
Standard	
For higher operating temperatures	2023
Special bleed system integrated in actuator	6996
Ra ≤ 0.6 µm (25 µinch) for media wetted surfaces, in accordance with ASME BPE SF2 and SF3, mechanically polished internal	1903

9 Type of design	Code
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
Ra ≤ 0.6 µm for media wetted surfaces, in accordance with ASME BPE SF6, electropolished internal/external	1953
Ra ≤ 0.8 µm for media wetted surfaces, in accordance with DIN 11866 HE3, electropolished internal/external	1954
Ra ≤ 0.4 µm for media wetted surfaces, in accordance with DIN 11866 HE4/ASME BPE SF5, electropolished internal/external	1959

10 Special version	Code
Standard	
Certified to DIN EN 161, class A	G
Special version for oxygen, (max. temperature 60 °C; max. operating pressure 10 bar), media wetted seal materials and auxiliary materials with BAM testing	S
11 CONEXO	Code
Without	
Integrated RFID chip for electronic identification and traceability	C

Order example

Order option	Code	Description
1 Type	550	Angle seat globe valve, pneumatically operated, stainless steel piston actuator
2 DN	15	DN 15
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 Control function	1	Normally closed (NC)
8 Actuator version	1G1	Actuator size 1G1
9 Type of design		Standard
10 Special version		Standard
11 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.

Control medium: Inert gases

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

Temperature

Media temperature: -40 – 410 °F
14 – 410 °F only with design ordering option (code 2023)
14 – 140 °F only with special function ordering option (code G)
with special function S: 14 – 140 °F
For material code 37 (and 34 only with 3.2. certificate) + K-no. 2013: -40 to 356 °F

Ambient temperature: -40 – 140 °F
For material code 37 (and 34 only with 3.2. certificate): -40–140 °F

Control medium temperature: 32 – 140 °F

Storage temperature: -22 – 140 °F

Pressure

Operating pressure: Control function 1 (NC) - Flow direction under the seat

Actuator version code	0G1	1G1	2G1	3G1	4G1	5G1
DN						
6	150	-	-	-	-	-
8	150	150	-	-	-	-
10	150	150	360	-	-	-
15	150	150	360	-	-	-
20	-	90	180	375	-	-
25	-	51	105	240	375	-
32	-	-	58	150	270	375
40	-	-	37	90	180	300
50	-	-	-	45	105	225
65	-	-	-	-	-	150
80	-	-	-	-	-	105

All pressures are psi gauge pressures. When the flow is over the seat (M), there may be the danger of water hammer with liquid media! For max. operating pressures the pressure/temperature correlation must be observed.

Operating pressure:**Control function 1 (NC) - Flow direction over the seat**

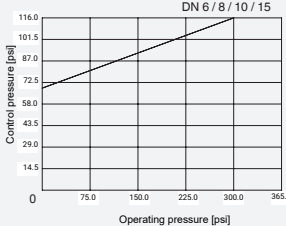
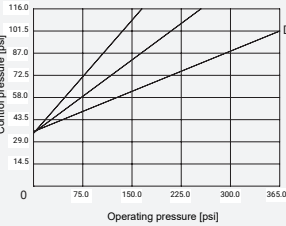
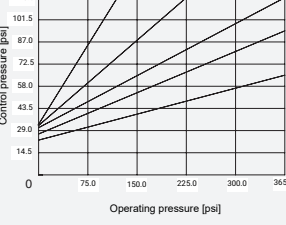
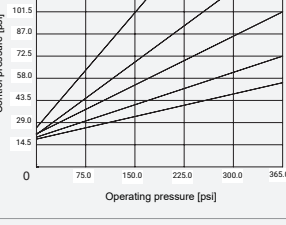
Actuator version code	0M1	1M1	2M1	3M1
DN				
6	150	-	-	-
8	150	150	-	-
10	150	150	-	-
15	150	150	150	-
20	-	150	150	150
25	-	150	150	150
32	-	-	150	150
40	-	-	120	150
50	-	-	75	150
65	-	-	-	-
80	-	-	-	-

All pressures are psi gauge pressures. When the flow is over the seat (M), there may be the danger of water hammer with liquid media! For max. operating pressures the pressure/temperature correlation must be observed.

Pressure rating:

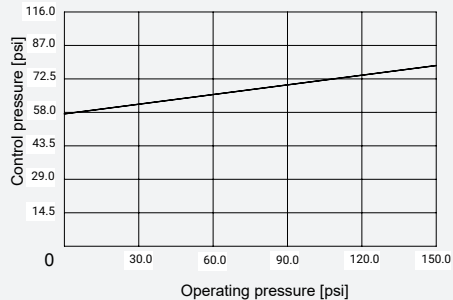
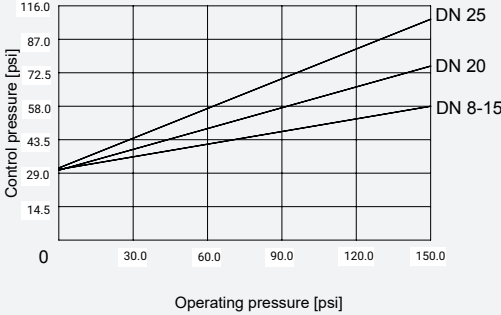
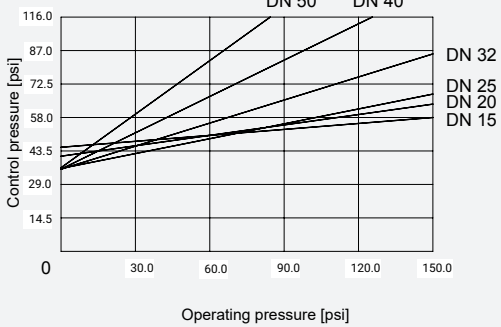
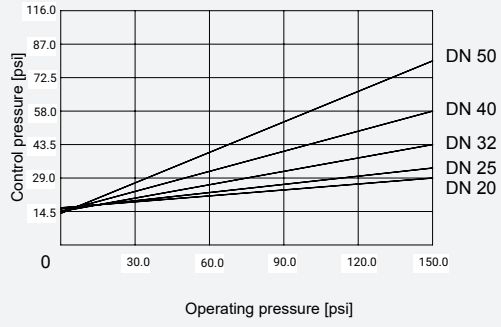
PN 25

Control pressure:
Flow direction: under the seat

Actuator version code	Control function 1 normally closed (NC)	Control function 2 and 3 normally open (NO) and double acting (DA)
0G1	58.0 - 120.0 psi	
1G1	58.0 - 120.0 psi	
2G1	58.0 - 120.0 psi	
3G1	58.0 - 120.0 psi	
4G1	58.0 - 120.0 psi	-
5G1	72.0 - 120.0 psi	-

Control pressure:

Flow direction: over the seat

Actuator version code	Control function 1 normally closed (NC)
0M1	72.0 - 120.0 psi DN 6 / 8 / 10 / 15 
1M1	72.0 - 120.0 psi 
2M1	72.0 - 120.0 psi 
3M1	72.0 - 120.0 psi 

Filling volume:

Actuator version code	Filling volume	Piston diameter
0G1, 0M1	0.37	1.10
1G1, 1M1	1.53	1.65
2G1, 2M1	5.13	2.36
3G1, 3M1	14.95	3.15
4G1	26.67	3.94
5G1	48.70	5.12

Filling volume in cu in
Dimensions in inch

Leakage rate:

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

Pressure/temperature correlation:

Connection type code	Material code	Max. allowable operating pressures in psi at temperature in °F					
		RT	212	302	392	482	572
1, 9, 17, 37, 60, 3C, 3D	37	77.0	357.0	321.0	283.5	262.5	241.5
0, 16, 17, 37, 59, 60	34	77.0	367.5	336.0	304.5	273.0	241.5
13 (DN 15 - 50)	34	77.0	354.0	322.5	297.0	279.0	258.0
88 (DN 15 - DN 40)	34	77.0	318.0	289.5*	-	-	-
88 (DN 15 - DN 80)	34	60.8	240.0	240.0*	-	-	-
82 (DN 15 - 32)	34	77.0	318.0	289.5*	-	-	-
82 (DN 40 - 65)	34	60.8	240.0	240.0*	-	-	-
86 (DN 15 - 40)	34	77.0	318.0	289.5*	-	-	-
86 (DN 50 - 65)	34	60.8	240.0	240.0*	-	-	-
10 (DN 15 - 50)	37	77.0	375.0	340.5	315.0	297.0	277.5
47 (DN 15 - 50)	34	60.6	199.5	180.0	165.0	153.0	145.5
0, 16, 17, 59, 60	40	77.0	308.0	280.5	256.5	237.0	222.0
17, 59, 60	C2	77.0	318.0	289.5	268.5	252.0	238.5

* max. temperature 284 °F

RT = room temperature

All pressures are psi gauge pressures.

The valves are suitable for temperatures up to 14 °F

Cv values:

DN	Butt weld spigot DIN 11850	Butt weld spigot DIN 11866	Threaded socket DIN ISO 228
6	1.9	-	-
8	2.1	2.6	-
10	2.8	5.3	5.3
15	2.8	6.4	6.3
20	-	13.7	11.7
25	-	24.0	17.8
32	-	38.6	26.9
40	-	59.7	48.0
50	-	71.4	79.6
65	-	128.7	111.1
80	-	136.9	152.1

Cv values in gpm

Cv values determined in accordance with EN 60534. The Cv value data refers to control function 1 (NC) and the largest actuator for each nominal size. The Cv values for other product configurations (e.g. other connection types or body materials) may differ.

Product conformity

Food:	Regulation (EC) No. 1935/2004	
	Regulation (EC) No. 10/2011*	
	FDA*	
	* depending on version and/or operating parameters	
Pressure Equipment Directive:	2014/68/EU	
Machinery Directive:	2006/42/EC	
Gas identification:	Valve group: 2	
	Valve class: A	
Explosion protection:	ATEX (2014/34/EU) on request	
FMEDA:	Product description:	GEMÜ 550 angle seat globe valve
	Device type:	A
	Fail safe function:	Due to the fail safe function, the straight seat or angle seat globe valve is placed in the closed position (with control function 1) or open position (with control function 2), or it seals tightly (with control function 1).
	HFT (Hardware Fault Tolerance):	0
	There is no proof of systematic suitability in accordance with IEC 61508.	

Mechanical data**Weight:****Actuator**

DN	Actuator size					
	0	1	2	3	4	5
6	0.53	-	-	-	-	-
8	0.53	1.37	1.98	-	-	-
10	0.53	1.37	1.98	-	-	-
15	0.53	1.46	2.14	-	-	-
20	-	1.61	2.20	3.75	-	-
25	-	-	2.43	3.97	7.05	-
32	-	-	2.87	4.41	7.50	14.33
40	-	-	3.53	4.63	7.72	14.55
50	-	-	-	5.07	8.16	14.99
65	-	-	-	-	-	16.31
80	-	-	-	-	-	17.86

Weight in lb

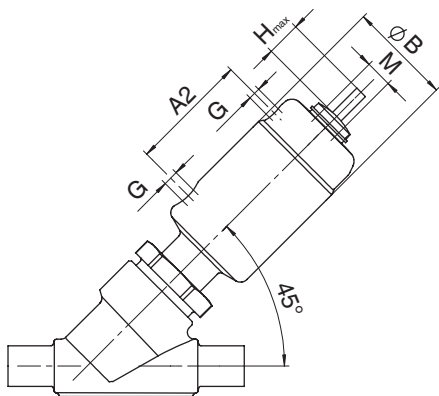
Body

DN	Spigot K514	Threaded socket	Threaded spigot	Flange K514	Clamp
	Connection type code				
	0, 16, 17, 37, 59, 60	1, 3C, 3D	9	10, 13, 47	82, 86, 88
6	0.26	-	0.31	-	-
8	0.26	0.55	0.26	-	-
10	0.26	0.55	0.31	-	-
15	0.35	0.55	0.31	-	-
10	0.55	0.55	-	-	-
15	0.53	0.77	0.68	3.97	0.82
20	1.10	0.77	1.10	5.51	1.39
25	1.10	0.77	1.43	6.83	1.39
32	1.98	1.65	2.20	10.14	2.38
40	2.43	2.16	2.87	11.24	2.82
50	3.97	3.75	3.97	15.87	4.56
65	7.50	7.05	7.50	-	8.14
80	9.26	9.04	9.70	-	10.14

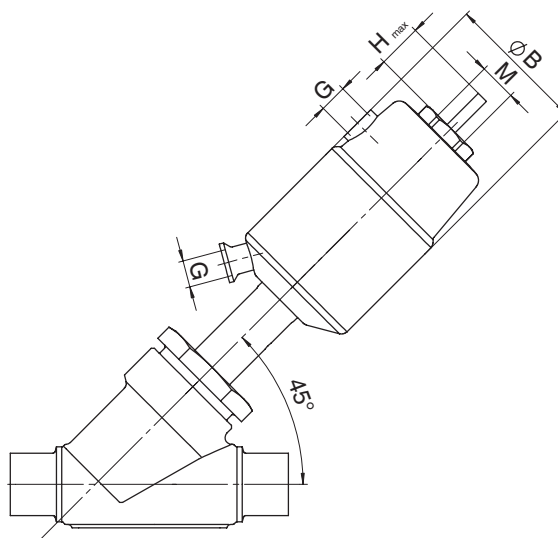
Weight in lb

Dimensions

Actuator dimensions



Actuator size 0, 1



Actuator size 2-5

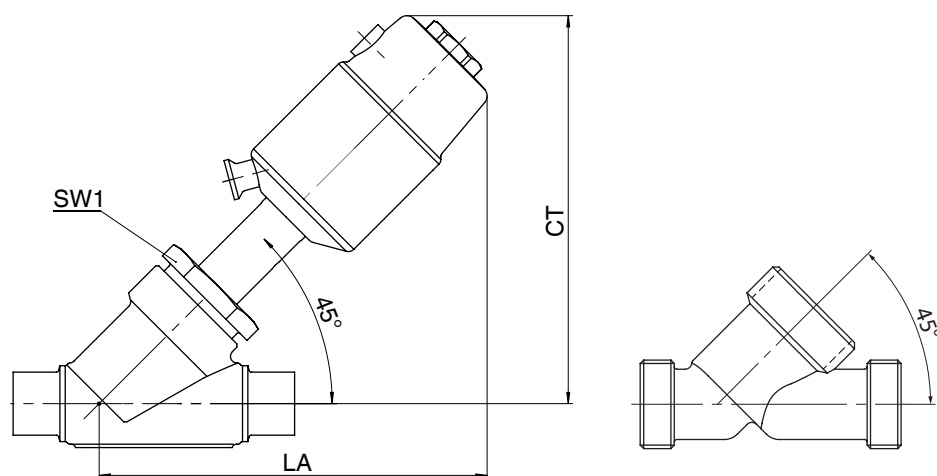
Actuator size	ØB	M	H max*	G	A2
0	1.26	M 12 x 1	0.24	M 5	1.39
1	1.81	M 16 x 1	0.47	G 1/8	2.09
2	2.48	M 16 x 1	0.87	G 1/8	-
3	3.31	M 16 x 1	1.10	G 1/4	-
4	4.09	M 22 x 1.5	1.26	G 1/4	-
5	5.31	M 22 x 1.5	1.61	G 1/4	-

Dimensions in inch

H max*: Depends on the nominal size

Installation dimensions

Valve with 2/2-way body



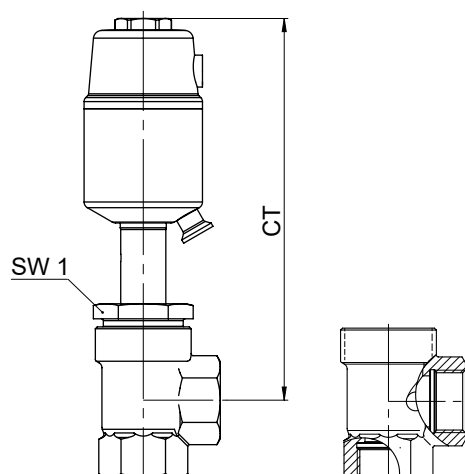
Actuator size		0	1	2	3	4	5
DN	SW	CT/LA	CT/LA	CT/LA	CT/LA	CT/LA	CT/LA
6	24	3.58	-	-	-	-	-
8	24	3.58	-	-	-	-	-
10	24	3.58	-	-	-	-	-
15	24	3.58	-	-	-	-	-
8	36	-	5.28	6.73	-	-	-
10	36	-	5.28	6.73	-	-	-
15	36	-	5.39	6.85	-	-	-
20	41	-	5.63	7.09	7.80	-	-
25	46	-	-	7.24	7.95	9.25	-
32	55	-	-	7.56	8.27	9.57	10.59
40	60	-	-	7.36	8.46	9.76	10.79
50	55	-	-	-	8.78	10.08	11.10
65	75	-	-	-	-	-	11.61
80	75	-	-	-	-	-	12.28

Dimensions in inch

The specified dimensions refer to control function 1 (normally closed NC).

The dimensions are smaller for control function 2 (normally open NO).

Valve with angle valve body



Actuator size		1	2	3	4	5
DN	SW	CT/LA	CT/LA	CT/LA	CT/LA	CT/LA
15	36	5.87	7.68	-	-	-
20	41	5.98	7.80	8.43	-	-
25	46	-	7.95	8.58	10.08	-
32	55	-	8.07	8.70	10.20	11.26
40	60	-	-	8.90	10.39	11.46
50	55	-	-	9.17	10.67	11.73

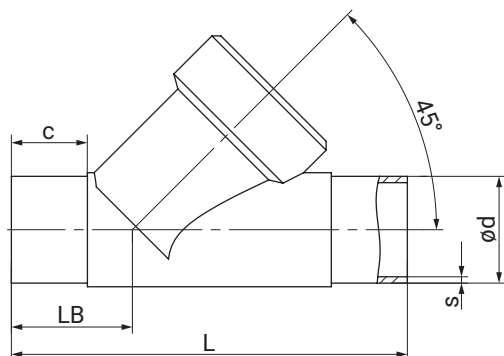
Dimensions in inch

The specified dimensions refer to control function 1 (normally closed NC).

The dimensions are smaller for control function 2 (normally open NO).

Body dimensions

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



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

DN	NPS	Connection type: Spigot DN: 15, 20, 25, 30; RSMZ (Code 0, 10, 17, 59, 60) , forged material (Code 10)										L	LB	s				
		c (min)					ød							Connection type				
		Connection type																
		0	16	17	59	60	0	16	17	59	60			0	16	17	59	60
6	1/8"	0.79	-	-	-	0.79	0.31	-	-	-	-	3.15	1.04	0.04	-	-	-	-
8	1/4"	0.79	-	0.79	0.39	-	0.39	-	-	-	0.53	3.15	1.04	0.04	-	-	-	0.06
10	3/8"	-	0.79	0.79	0.79	-	-	0.47	0.51	0.38	-	3.15	1.04	-	0.04	0.06	0.04	-
15	1/2"	-	-	-	0.79	-	-	-	-	0.50	-	3.15	1.04	-	-	-	0.06	-

Dimensions in inch

1) Connection type

Code 0: Spigot DIN

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

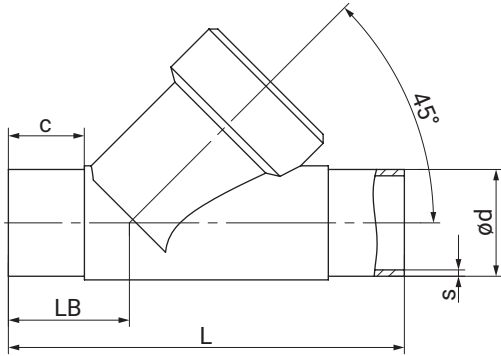
Code 17: Spigot EN 10357 series A/DIN 11866 series A, formerly DIN 11850 series 2

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/ANSI/ASME/SMS (code 0, 16, 17, 37, 59, 60), actuator size 1, 2, 3, 4, 5

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
10	3/8"	-	0.79	0.79	0.79	-	0.47	0.51	0.68	4.13	1.40	-	0.04	0.06	0.06
15	1/2"	0.79	0.79	0.79	0.79	0.71	0.71	0.75	0.84	4.13	1.40	0.06	0.04	0.06	0.06
20	3/4"	0.98	0.98	0.98	0.98	0.78	0.87	0.91	1.06	4.72	1.54	0.06	0.04	0.06	0.06
25	1"	0.96	0.96	0.96	0.96	1.10	1.10	1.14	1.33	4.92	1.52	0.06	0.04	0.06	0.08
32	1¼"	-	1.02	1.06	1.14	-	1.34	1.38	1.67	6.19	1.89	-	0.04	0.06	0.08
40	1½"	0.94	0.94	0.94	1.72	1.57	1.57	1.61	1.90	6.30	1.85	0.06	0.04	0.06	0.08
50	2"	1.14	1.14	1.14	1.14	2.05	2.05	2.09	2.37	7.09	1.89	0.06	0.04	0.06	0.08

Connection type spigot ANSI/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"	-	0.79	-	0.50	4.13	1.40	-	0.06
20	3/4"	-	0.98	-	0.75	4.72	1.54	-	0.06
25	1"	0.96	0.96	0.98	1.00	4.92	1.52	0.05	0.06
32	1¼"	-	-	-	-	6.19	1.89	-	-
40	1½"	0.94	0.94	1.50	1.50	6.30	1.85	0.05	0.06
50	2"	1.14	1.14	2.01	2.00	7.09	1.89	0.05	0.06

Dimensions in inch

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

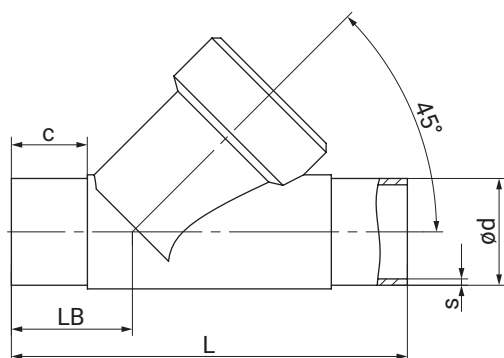
Code 37: Spigot SMS 3008

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/ANSI/ASME/SMS (code 17, 37, 59, 60), actuator size 1, 2, 3, 4, 5**Connection type spigot EN/ISO/ASME (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"	0.71	0.71	0.75	0.84	3.94	1.30	0.06	0.06
20	3/4"	0.71	0.71	0.91	1.06	4.25	1.30	0.06	0.06
25	1"	0.71	0.71	1.14	1.33	4.41	1.26	0.06	0.08
32	1¼"	0.71	0.71	1.38	1.67	5.39	1.54	0.06	0.08
40	1½"	0.75	0.71	1.61	1.90	5.75	1.57	0.06	0.08
50	2"	0.79	0.79	2.09	2.37	6.30	1.50	0.06	0.08
65	2½"	2.07	1.85	2.76	3.00	11.42	3.78	0.08	0.08
80	3"	1.97	1.83	3.35	3.50	12.20	3.74	0.08	0.09

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

DN	NPS	c (min)		ød		L	LB	s	
		Connection type						Connection type	
		37	59	37	59			37	59
65	2½"	2.28	2.28	2.50	2.50	11.42	3.78	0.06	0.06
80	3"	2.28	2.28	3.00	2.99	12.20	3.74	0.06	0.06

Dimensions in inch

1) Connection type

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

Code 37: Spigot SMS 3008

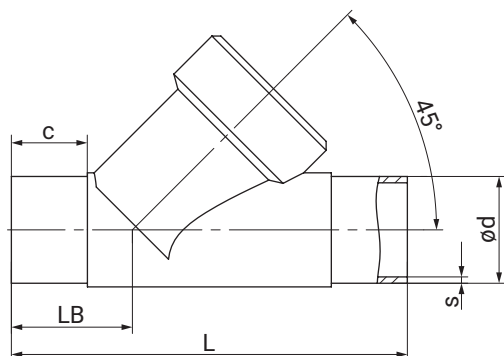
Code 59: Spigot ASME BPE/DIN EN 10357 series C (from 2022 issue)/DIN 11866 series C

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

2) Valve body material

Code 37: 1.4408, investment casting

Spigot EN/ISO/ASME (code 17, 59, 60), actuator size 1, 2, 3, 4, 5



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

DN	NPS	c (min)			ød			L	LB	s		
		Connection type								Connection type		
		17	59	60	17	59	60			17	59	60
8	1/4"	-	-	0.79	-	-	0.53	3.15	1.40	-	-	0.06
10	3/8"	0.79	-	0.79	0.51	-	0.68	3.94	1.40	0.06	-	0.06
15	1/2"	0.79	0.59	0.79	0.75	0.50	0.84	4.13	1.40	0.06	0.06	0.06
20	3/4"	0.98	0.98	0.98	0.91	0.75	1.06	4.72	1.54	0.06	0.06	0.06
25	1"	0.94	0.94	0.94	1.14	1.00	1.33	4.92	1.56	0.06	0.06	0.08
32	1¼"	1.06	-	1.03	1.38	-	1.68	6.10	1.89	0.06	-	0.08
40	1½"	0.94	0.91	1.14	1.61	1.50	1.90	6.30	1.85	0.06	0.06	0.08
50	2"	1.11	1.11	1.89	2.09	2.00	2.37	7.09	1.89	0.06	0.06	0.08
65	2½"	2.07	2.28	2.07	2.76	2.50	3.00	11.42	3.78	0.08	0.06	0.08
80	3"	1.98	2.28	1.84	3.35	3.00	3.50	12.20	3.74	0.08	0.06	0.09

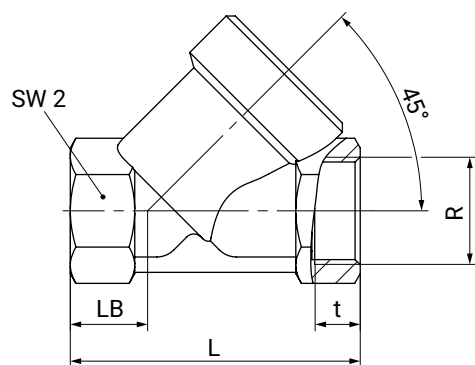
Dimensions in inch

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"	2.56	0.75	-	0.75	G 1/4	-	1/4" NPT	17	0.47	-	0.40
10	3/8"	2.56	0.75	1.06	1.06	G 3/8	G 3/8	3/8" NPT	24	0.47	0.45	0.41
15	1/2"	2.56	0.75	-	1.06	G 1/2	-	1/2" NPT	24	0.45	-	0.54

Dimensions in inch

1) Connection type

Code 1: Threaded socket DIN ISO 228

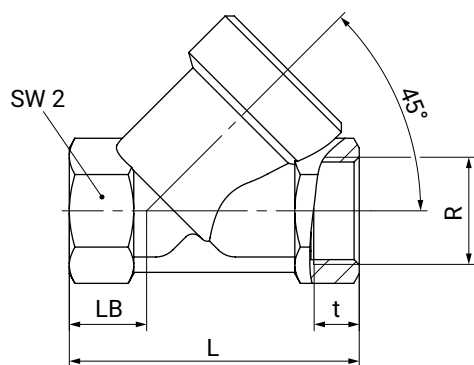
Code 3C: Threaded socket Rc ISO 7-1, EN 10226-2, JIS B 0203, BS 21, end-to-end dimension ETE DIN 3202-4 series M8

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, 2, 3, 4, 5



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

DN	NPS	L	LB	R	SW2	t
10	3/8"	2.56	0.65	G 3/8	27	0.45
15	1/2"	2.56	0.65	G 1/2	27	0.59
20	3/4"	2.95	0.69	G 3/4	32	0.64
25	1"	3.54	0.94	G 1	41	0.75
32	1 1/4"	4.33	1.30	G 1 1/4	50	0.84
40	1 1/2"	4.72	1.18	G 1 1/2	55	0.84
50	2"	5.91	1.57	G 2	70	1.01
65	2 1/2"	7.48	1.81	G 2 1/2	85	1.19
80	3"	8.66	1.97	G 3	100	1.31

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"	2.56	0.65	Rc 1/2	1/2" NPT	27	0.59	0.54
20	3/4"	2.95	0.69	Rc 3/4	3/4" NPT	32	0.64	0.56
25	1"	3.54	0.94	Rc 1	1" NPT	41	0.75	0.67
32	1¼"	4.33	1.30	Rc 1¼	1¼" NPT	50	0.84	0.69
40	1½"	4.72	1.18	Rc 1½	1½" NPT	55	0.84	0.68
50	2"	5.91	1.57	Rc 2	2" NPT	70	1.01	0.70
65	2½"	7.48	1.81	Rc 2½	2½" NPT	85	1.19	0.93
80	3"	8.66	1.97	Rc 3	3" NPT	100	1.31	1.02

Dimensions in inch

1) Connection type

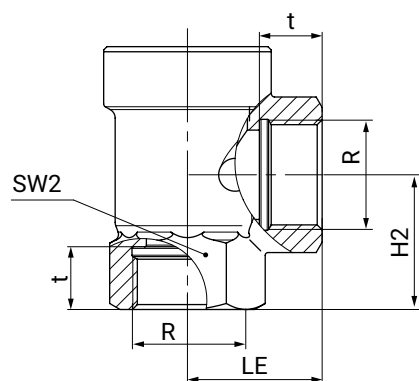
Code 1: Threaded socket DIN ISO 228

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"	1.18	1.18	27	G 1/2	1/2" NPT	0.59	0.54
20	3/4"	1.48	1.38	32	G 3/4	3/4 " NPT	0.64	0.56
25	1"	1.61	1.61	41	G 1	1" NPT	0.75	0.67
32	1 1/4"	1.89	1.97	50	G 1 1/4	1 1/4" NPT	0.84	0.69
40	1 1/2"	2.17	1.97	55	G 1 1/2	1 1/2" NPT	0.84	0.68
50	2"	2.44	2.36	70	G 2	2" NPT	1.01	0.70

Dimensions in inch

1) Connection type

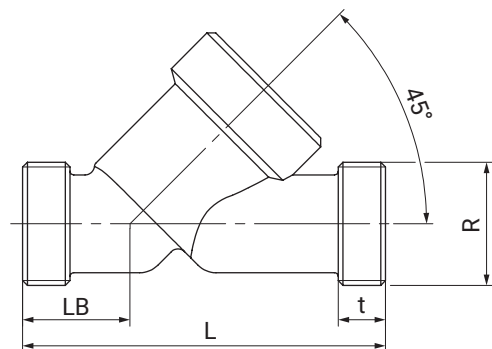
Code 1: Threaded socket DIN ISO 228

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 0



Connection type threaded spigot DIN (code 9)¹⁾, forged material (code 40)²⁾

DN	L	LB	R	t
6	2.56	0.75	G 1/4	0.47

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

DN	L	LB	R	t
8	2.56	0.75	G 3/8	0.47
10	2.56	0.75	G 1/2	0.47
15	2.56	0.75	G 3/4	0.47

Dimensions in inch

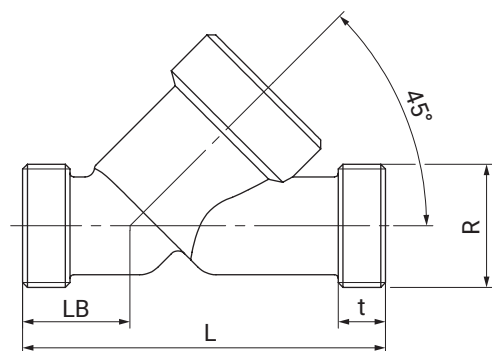
1) Connection type

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, 2, 3, 4, 5**Connection type threaded spigot DIN (code 9)¹⁾, investment casting material (code 37)²⁾**

DN	L	LB	R	t
15	3.54	0.98	G 3/4	0.47
20	4.33	1.18	G 1	0.59
25	4.65	1.18	G 1¼	0.59
32	5.12	1.50	G 1½	0.51
40	5.51	1.38	G 1¾	0.51
50	6.89	1.97	G 2¾	0.59
65	8.50	2.05	G 3	0.59
80	10.0	2.52	G 3½	0.71

Dimensions in inch

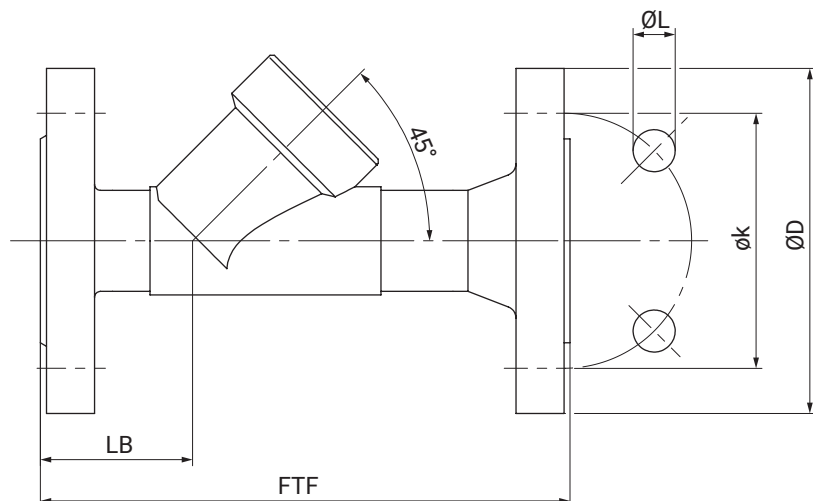
1) Connection type

Code 9: Threaded spigot DIN ISO 228

2) Valve body material

Code 37: 1.4408, investment casting

Flange EN (code 10), actuator size 1, 2, 3, 4, 5



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

DN	NPS	$\varnothing D$	FTF	$\varnothing k$	$\varnothing L$	LB	n
15	1/2"	3.74	5.12	2.56	0.55	1.30	4
20	3/4"	4.13	5.91	2.95	0.55	1.77	4
25	1"	4.53	6.30	3.35	0.55	1.73	4
32	1 1/4"	5.51	7.09	3.94	0.71	2.01	4
40	1 1/2"	5.91	7.87	4.33	0.71	2.05	4
50	2"	6.50	9.06	4.92	0.71	1.97	4

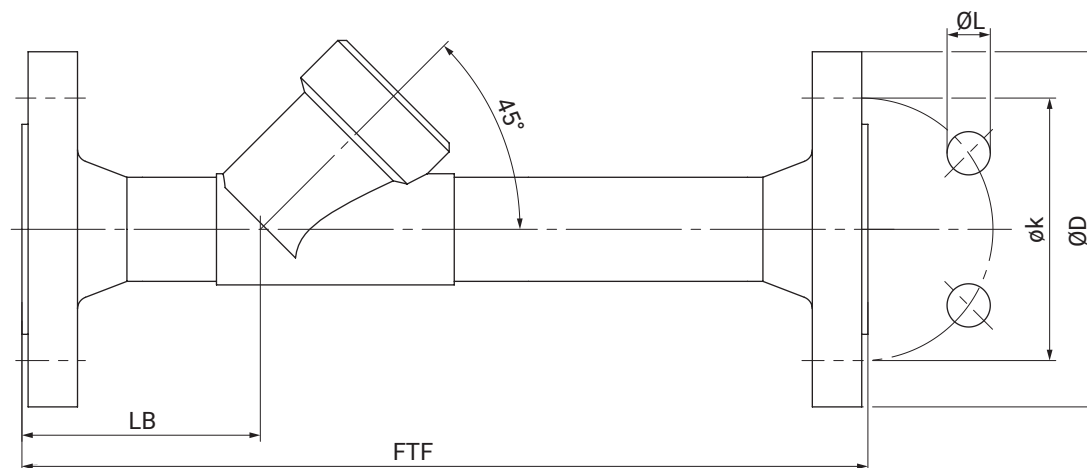
Dimensions in inch
n = number of bolts

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 1, 2, 3, 4, 5

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"	3.74	3.50	8.27	2.56	2.38	0.55	0.62	2.83	4
20	3/4"	4.13	3.88	11.02	2.95	2.75	0.55	0.62	3.07	4
25	1"	4.53	4.25	11.02	3.35	3.12	0.55	0.62	3.03	4
32	1¼"	5.51	4.62	12.20	3.94	3.50	0.71	0.62	3.50	4
40	1½"	5.91	5.00	12.60	4.33	3.88	0.71	0.62	3.58	4
50	2"	6.50	6.00	12.99	4.92	4.75	0.71	0.75	3.74	4

Dimensions in inch

n = number of bolts

1) Connection type

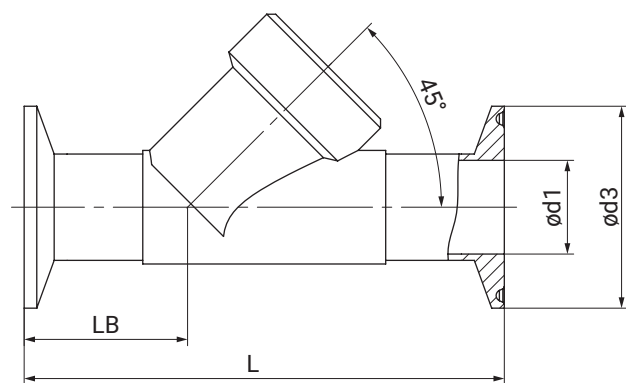
Code 13: Flange EN 1092, PN 25, form B

Code 47: Flange ANSI Class 150 RF

2) Valve body material

Code 34: 1.4435, investment casting

Clamp DIN/ASME (code 82, 86, 88), actuator size 1, 2, 3, 4, 5



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

DN	NPS	ød1			ød3			L			LB		
		Connection type			Connection type			Connection type			Connection type		
		82	86	88	82	86	88	82	86	88	82	86	88
15	1/2"	0.71	0.63	0.37	1.99	1.34	0.98	5.12	5.12	5.12	1.87	1.87	1.87
20	3/4"	0.93	0.79	0.62	1.99	1.34	0.98	5.91	5.91	5.91	2.13	2.13	2.13
25	1"	1.17	1.02	0.87	1.99	1.99	1.99	6.30	6.30	6.30	2.20	2.20	2.20
32	1 1/4"	1.51	1.26	-	2.52	1.99	-	7.09	7.09	-	2.44	2.44	-
40	1 1/2"	1.74	1.50	1.37	2.52	1.99	1.99	7.87	7.87	7.87	2.64	2.64	2.64
50	2"	2.22	1.97	1.87	3.05	2.52	2.52	9.06	9.06	9.06	2.87	2.87	2.87

Dimensions in inch

1) Connection type

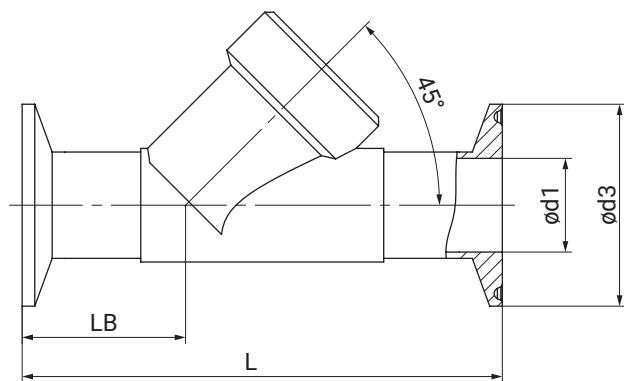
Code 82: Clamp DIN 32676 series B, face-to-face dimension FTF EN 558 series 1

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 34: 1.4435, investment casting

Clamp DIN/ASME (code 82, 86, 88), actuator size 1, 2, 3, 4, 5**Connection type clamp DIN/ASME (code 82, 86, 88)¹⁾, investment casting material (code C2)²⁾**

DN	NPS	ød1			ød3			L	LB
		Connection type			Connection type				
		82	86	88	82	86	88		
8	1/4"	0.41	-	-	0.98	-	-	5.12	1.87
10	3/8"	0.55	0.39	-	0.98	1.34	-	5.12	1.87
15	1/2"	0.71	0.63	0.37	1.99	1.34	0.98	5.12	1.87
20	3/4"	0.93	0.79	0.62	1.99	1.34	0.98	5.91	2.13
25	1"	1.17	1.02	0.87	1.99	1.99	1.99	6.30	2.20
32	1¼"	1.51	1.26	-	2.52	1.99	-	7.09	2.44
40	1½"	1.74	1.50	1.37	2.52	1.99	1.99	7.87	2.64
50	2"	2.22	1.97	1.87	3.05	2.52	2.52	9.06	2.87
65	2½"	2.84	2.60	2.37	3.58	3.58	3.05	11.42	4.72
80	3"	3.32	3.19	2.87	4.17	4.17	3.58	12.20	4.69

Dimensions in inch

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

Add-on components



GEMÜ 1201

Electrical position indicator

The GEMÜ 1201 electrical position indicator has either one or two mechanical microswitches. They are individually continuously adjustable via a threaded spindle.



GEMÜ 1205

Electrical position indicator ATEX

The GEMÜ 1205 electrical position indicator has electro-mechanical microswitches in a flameproof enclosure. Two valve positions, open and/or closed can be remotely indicated.



GEMÜ 1210

Mounting bracket for proximity switches

The GEMÜ 1210 is an enclosed proximity switch mount in stainless steel for two proximity switches M8 x 1 or M12 x 1 (only suitable for GEMÜ 550 and GEMÜ 650). An integral optical position indicator is standard. The basic version does not contain any proximity switches.



GEMÜ 8500

Electrically operated pilot solenoid valve

The GEMÜ 8500 servo assisted 3/2 or 5/2-way pilot solenoid valve is indirectly controlled. The body is made of aluminium. The plastic encapsulated solenoid actuator is detachable. The piston valve has a soft elastomer seal.

When used for gas applications (order code Special function G), the actuating time for closing the process valve must be less than 1 s.

Recommendation: 8500 32 7M G2 14 2 1 C1

Accessories



GEMÜ 1002

Handwheel

GEMÜ 1002 is a manual override for pneumatic linear actuators for diaphragm, globe and control valves. An integral optical position indicator is standard. The manual override cannot be used as a seal adjuster!



GEMÜ 1101

Stroke limiter

Pneumatic linear actuators of GEMÜ butterfly valves, ball valves, diaphragm valves and globe valves are not fully opened by opening stroke limiters. This limits the maximum flow through a valve. The opening stroke limiter is available either with handwheel, transparent cap, position indicator or manual override.

**GEMÜ 1104****Stroke limiter with handwheel**

GEMÜ 1104 is a mechanical stroke limiter with handwheel for pneumatically operated linear actuators.

**GEMÜ 1106****Stroke limiter and seal adjuster**

GEMÜ 1106 is a mechanical stroke limiter and seal adjuster with a protective cap either in stainless steel, black plastic, transparent plastic or without protective cap.

**GEMÜ 1108****Seal adjuster**

GEMÜ 1108 is a mechanical seal adjuster with integrated optical position indicator and transparent cap for pneumatically operated linear actuators.

**GEMÜ 1110****Stroke limiter**

GEMÜ 1110 is a mechanical stroke limiter with transparent cap for pneumatically operated linear actuators.

**GEMÜ 1151****Stroke limiter**

GEMÜ 1151 is a mechanical stroke limiter for pneumatically operated linear actuators. An integral optical position indicator is standard.

**GEMÜ 1152****Stroke limiter**

GEMÜ 1152 is a mechanical stroke limiter for pneumatically operated linear actuators. An integral optical position indicator is standard.

**GEMÜ 1161****Stroke limiter**

GEMÜ 1161 is a mechanical stroke limiter with transparent cap for pneumatically operated linear actuators. An integral optical position indicator is standard.



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