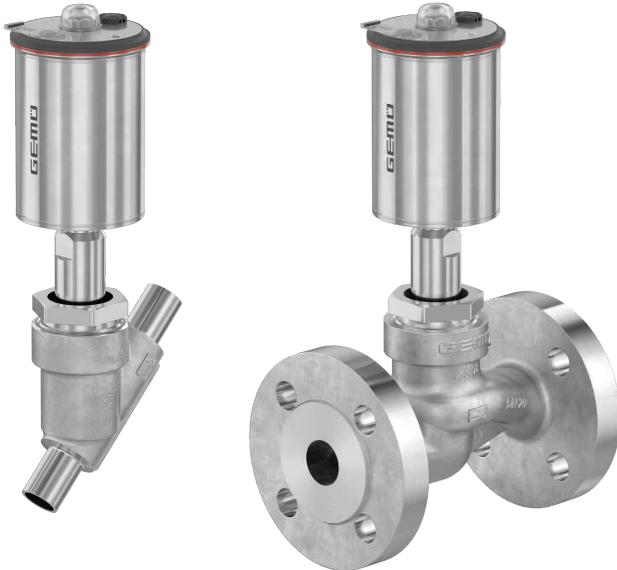


## GEMÜ S40

### Pneumatically operated globe valve



### Features

- Suitable as a shut-off function for gaseous, liquid and viscous media
- Robust stainless steel actuator resistant to corrosive ambient conditions
- No alignment of the actuator needed as the control air connectors are at the top
- Replaceable medium-wetted sealing components
- Optical position indicator and transparent cap as standard
- Suitable for vacuum up to 10 mbar (a) as standard

### Description

The pneumatically operated **GEMÜ S40** globe valve is designed for use in industrial applications and has body configurations such as angled and straight seat bodies. The valve spindle is sealed by a self-adjusting seal providing low-maintenance and reliable tightness even after a long service life. All actuator parts (except the seals and design elements) are made from stainless steel. The "Normally closed", "Normally open" and "Double acting" control functions are available. The valve has an optical position indicator with a transparent cap as standard.

### Technical specifications

- **Media temperature:** -10 to 185 °C
- **Ambient temperature:** -10 to 80 °C
- **Operating pressure:** 0 to 40 bar
- **Nominal sizes:** DN 8 to 50
- **Body configurations:** Angle seat body | Straight seat body
- **Connection types:** Clamp | Flange | Spigot | Threaded connection
- **Connection standards:** ANSI | ASME | BS | DIN | EN | ISO | JIS | NPT | SMS
- **Body materials:** 1.4408, investment casting material | 1.4435, investment casting material | EN-GJS-400-18-LT, SG iron material
- **Seat seal materials:** PTFE
- **Conformities:** ATEX | FDA | Reg. (EU) No. 10/2011 | Regulation (EC) No. 1935/2004 | Regulation (EC) No. 2023/2006 | USP

Technical data depends on the respective configuration

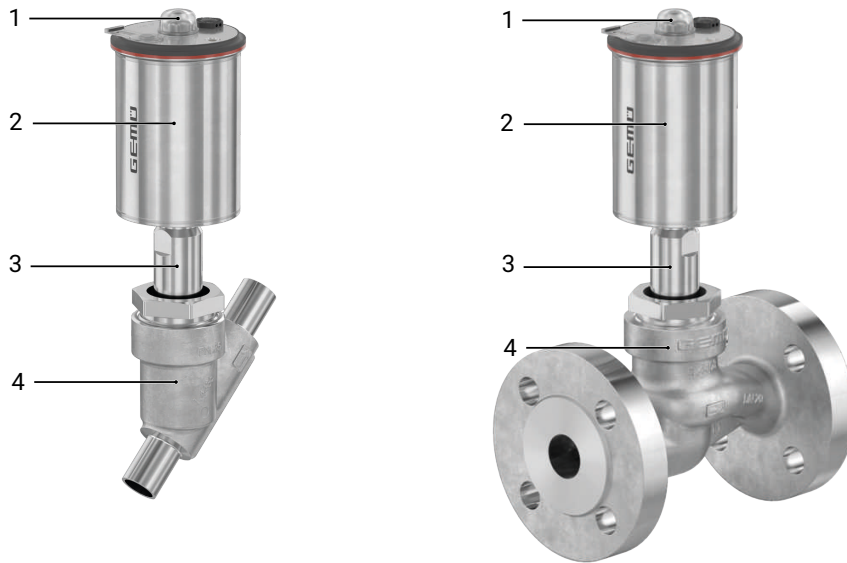


further information  
webcode: GW-S40



## Product description

### Construction



Position	Name	Materials
1	Transparent cap	PC
2	Actuator	1.4308 / 1.4301
3	Distance piece with leak detection hole	1.4404 / 1.4408
4	Valve body	1.4408, investment casting 1.4435, investment casting EN-GJS-400-18-LT, SG iron

## 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, 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 them 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.

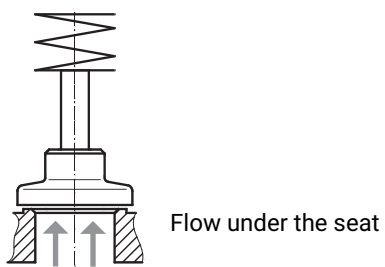
**You can find further information on GEMÜ CONEXO at:**

[www.gemu-group.com/conexo](http://www.gemu-group.com/conexo)

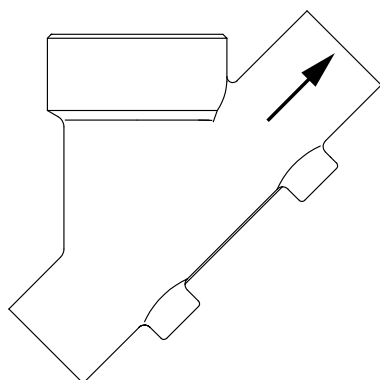
### Ordering

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

## **Flow direction**



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



## Availabilities

### Availability of actuators

DN	Actuator size		
	1	2	3
8	X	X	X
10	X	X	X
15	X	X	X
20	X	X	X
25	X	X	X
32	-	X	X
40	-	-	X
50	-	-	X

## Availabilities

### Availability of angle seat bodies, spigots

DN	Connection type code <sup>1)</sup>				
	17		59	60	
	Material code <sup>2)</sup>				
	37	C2	C2	37	C2
8	-	-	-	-	X
10	-	X	-	-	X
15	X	X	X	X	X
20	X	X	X	X	X
25	X	X	X	X	X
32	X	X	-	X	X
40	X	X	X	X	X
50	X	X	X	X	X

X = Standard

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 edition)/DIN 11866 series C

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

2) **Material**

Code 37: 1.4408, investment casting

Code C2: 1.4435, investment casting

**Availability of angle seat bodies, threaded connection**

DN	Connection type code <sup>1)</sup>			
	1	3C	3D	9
Material code 37 <sup>2)</sup>				
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

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

**Availability of angle seat bodies, flange**

DN	Connection type code <sup>1)</sup>	
	10	47
	Material code <sup>2)</sup>	
	37	34
15	X	X
20	X	X
25	X	X
32	X	X
40	X	X
50	X	X

X = Standard

1) **Connection type**

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

Code 47: Flange ANSI Class 150 RF

2) **Valve body material**

Code 37: 1.4408, investment casting

**Availability of angle seat bodies, clamp**

DN	Connection type code <sup>1)</sup>		
	82	86	88
	Material code <sup>2)</sup>		
	C2	C2	C2
8	X	-	-
10	X	X	-
15	X	X	X
20	X	X	X
25	X	X	X
32	X	X	-
40	X	X	X
50	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 C2: 1.4435, investment casting

**Availability of straight seat bodies, flange**

DN	Connection type code <sup>1)</sup>					
	8		11	39		48
	Material code <sup>2)</sup>					
	37	90	37	37	90	37
15	-	X	X	X	X	X
20	-	X	X	X	X	X
25	-	X	X	X	X	X
32	-	X	X	X	X	-
40	-	X	X	X	X	X
50	X	X	-	X	X	X

X = Standard

1) **Connection type**

Code 8: Flange EN 1092, PN 16, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1

Code 11: Flange EN 1092, PN 40, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1

Code 39: Flange ANSI Class 125/150 RF, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1,

Code 48: Flange JIS 20K, face-to-face dimension FTF EN 558 series 10, ASME/ANSI B16.10 table 1, column 16, DN 50 drilled to JIS 10K

2) **Valve body material**

Code 37: 1.4408, investment casting

Code 90: EN-GJS-400-18-LT (GGG 40.3)

## 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
Globe valve, pneumatically operated, stainless steel piston actuator	S40

2 DN, connection 1	Code
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 Body configuration	Code
Straight seat body	G
Angle seat body	S

4 Valve body connection type, connection 1	Code
<b>Spigot</b>	
Spigot EN 10357 series A/DIN 11866 series A	17
Spigot ASME BPE/DIN EN 10357 series C (from 2022 edition)/DIN 11866 series C	59
Spigot ISO 1127/DIN EN 10357 series C (2014 edition)/DIN 11866 series B	60
<b>Threaded connection</b>	
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
<b>Flange</b>	
Flange EN 1092, PN 16, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1	8
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 40, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1	11
Flange ANSI Class 125/150 RF, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1	39
Flange ANSI Class 150 RF	47
Flange JIS 20K, face-to-face dimension FTF EN 558 series 10, ASME/ANSI B16.10 table 1, column 16, DN 50 drilled to JIS 10K	48

4 Valve body connection type, connection 1	Code
<b>Clamp</b>	
Clamp DIN 32676 series B, face-to-face dimension FTF EN 558 series 1	82
Clamp DIN 32676 series A, face-to-face dimension FTF EN 558 series 1	86
Clamp ASME BPE, for pipe ASME BPE, face-to-face dimension FTF EN 558 series 1	88

5 Valve body material	Code
<b>Note:</b> A surface finish from the order code table "Type of design" must be specified for valve body material C2.	
1.4408, investment casting	37
1.4435, investment casting	C2
EN-GJS-400-18-LT (GGG 40.3), SG iron	90

6 Seat seal	Code
PTFE	5
PTFE FDA compliant, USP class VI	5P

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

8 Actuator spring set	Code
Standard spring set	1

9 Working medium flow direction	Code
Flow under the seat	G

10 Actuator size	Code
Actuator size 1	1
Actuator size 2	2
Actuator size 3	3

11 Type of design	Code
<b>Standard</b>	
Ra ≤ 0.6 µm (25 µinch) for media-wetted surfaces, in accordance with DIN 11866 H3, mechanically polished internal	1903
Ra ≤ 0.4 µm (15 µinch) for media-wetted surfaces, in accordance with DIN 11866 H4, mechanically polished internal	1909
Ra ≤ 0.6 µm for media-wetted surfaces, in accordance with ASME BPE SF6, electropolished internal/external	1953
Ra ≤ 0.4 µm for media-wetted surfaces, in accordance with DIN 11866 HE4/ASME BPE SF5, electropolished internal/external	1959



12 CONEXO	Code
Without	

### Order example

Ordering option	Code	Description
1 Type	S40	Globe valve, pneumatically operated, stainless steel piston actuator
2 DN, connection 1	25	DN 25
3 Body configuration	S	Angle seat body
4 Valve body connection type, connection 1	17	Spigot EN 10357 series A/DIN 11866 series A
5 Valve body material	37	1.4408, investment casting
6 Seat seal	5	PTFE
7 Control function	1	Normally closed (NC)
8 Actuator spring set	1	Standard spring set
9 Working medium flow direction	G	Flow under the seat
10 Actuator size	2	Actuator size 2
11 Type of design		Standard

## 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

### Temperature

**Media temperature:**

Seat seal	Body material	Standard
PTFE (code 5)	EN-GJS-400-18-LT / GGG 40.3 (code 90)	-10–185 °C
	1.4408, investment casting (code 37)	-10–185 °C
	1.4435, investment casting (code C2)	-10–185 °C

**Ambient temperature:** -10 – 80 °C

**Control medium temperature:** 0 – 60 °C

**Storage temperature:** -30 – 60 °C

### Pressure

**Operating pressure:** Control function 1 (NC) – flow direction G (under the seat) – spring set 1 (standard spring set)

DN	Actuator version (code)		
	1G1	1G2	1G3
<b>8</b>	10.0	17.0	25.0
<b>10</b>	10.0	17.0	25.0
<b>15</b>	10.0	17.0	29.0
<b>20</b>	5.8	9.0	17.0
<b>25</b>	3.8	5.8	9.5
<b>32</b>	-	3.8	6.0
<b>40</b>	-	-	4.0
<b>50</b>	-	-	2.5

All pressures are gauge pressures. For max. operating pressures, the pressure/temperature correlation must be observed.

Also observe the pressure rating of the selected housing configuration.

**Pressure rating:**

Body configuration (code)	Material (code)	Pressure rating
<b>S</b>	<b>37</b>	PN25
	<b>C2</b>	PN25
<b>G</b>	<b>37</b>	PN40
	<b>90</b>	PN16

**Control pressure:** Control function 1 (NC): 4.0 - 8.0 bar  
Control function 2 (NO) and 3 (DA): On request

**Actuator filling volume:**

DN	Actuator size		
	1	2	3
8	0.022 dm <sup>3</sup>	0.044 dm <sup>3</sup>	0.066 dm <sup>3</sup>
10	0.022 dm <sup>3</sup>	0.044 dm <sup>3</sup>	0.066 dm <sup>3</sup>
15	0.022 dm <sup>3</sup>	0.044 dm <sup>3</sup>	0.066 dm <sup>3</sup>
20	0.019 dm <sup>3</sup>	0.036 dm <sup>3</sup>	0.053 dm <sup>3</sup>
25	0.019 dm <sup>3</sup>	0.030 dm <sup>3</sup>	0.031 dm <sup>3</sup>
32	-	0.030 dm <sup>3</sup>	0.031 dm <sup>3</sup>
40	-	-	0.031 dm <sup>3</sup>
50	-	-	0.031 dm <sup>3</sup>

**Leakage rate:**

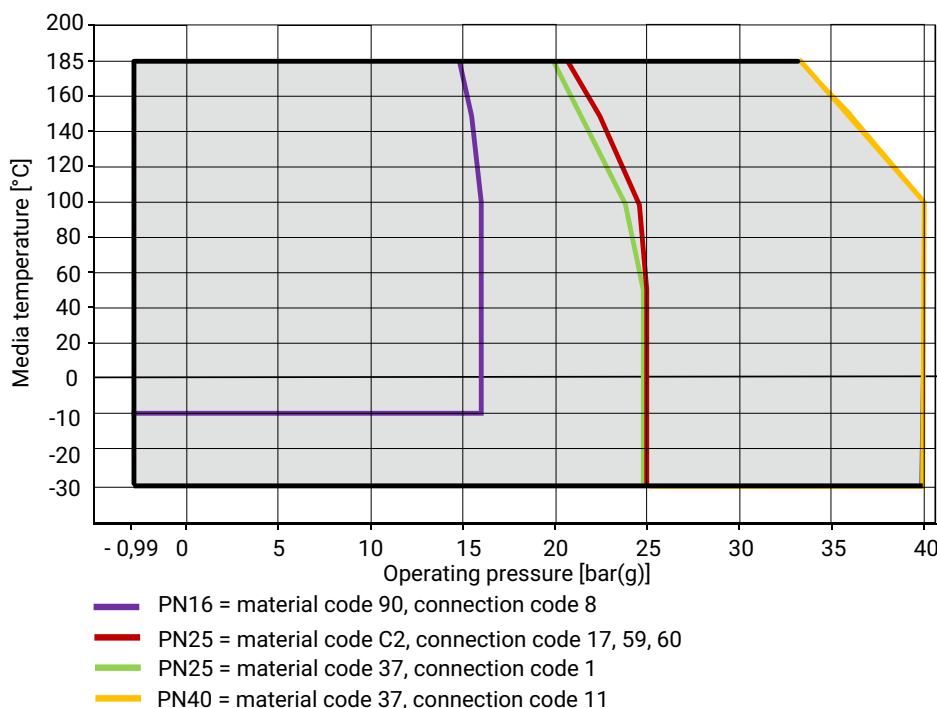
Leakage rate A to P11/P12 EN 12266-1

**Pressure/temperature correlation:**

Connection type code	Material code	Permissible operating pressures in bar at temperature in °C					
		RT	100	150	200	250	300
1, 9, 17, 37, 60, 3C, 3D	37	25.0	23.8	21.4	18.9	17.5	16.1
8	37	16.0	16.0	14.5	13.4	12.7	11.8
11	37	40.0	40.0	36.3	33.7	31.8	29.7
39	37	19.0	16.0	14.8	13.6	12.0	10.2
8	90	16.0	16.0	15.5	14.7	13.9	11.2
39	90	17.0	16.0	14.8	13.9	12.1	10.2
10 (DN 15 - 50)	37	25.0	25.0	22.7	21.0	19.8	18.5
0, 16, 17, 59, 60	40	25.0	20.6	18.7	17.1	15.8	14.8
17, 59, 60	C2	25.0	21.2	19.3	17.9	16.8	15.9

\* max. temperature 140 °C  
 RT = room temperature  
 All pressures are gauge pressures.  
 The valves are suitable for temperatures as low as -10 °C

**Pressure/temperature diagram:**



**Cv values:**

**Angle seat body (code S)**

DN	Connection type (code)	Actuator version		
		1G1	1G2	1G3
<b>8</b>	1	-	-	-
	17	-	-	-
	60	3.5	4.5	-
<b>10</b>	1	-	-	-
	17	-	-	-
	60	3.5	4.5	-
<b>15</b>	1	5.4	5.4	5.4
	17	5.5	5.5	5.5
	60	5.5	5.5	5.5
<b>20</b>	1	8.5	8.6	8.6
	17	9.6	10.2	10.2
	60	10.4	11.3	11.3
<b>25</b>	1	13.1	14.2	15.2
	17	14.5	14.6	17.9
	60	14.6	15.8	20.5
<b>32</b>	1	-	20.9	23.0
	17	-	26.2	28.5
	60	-	26.5	29.0
<b>40</b>	1	-	35.1	35.9
	17	-	32.8	36.0
	60	-	36.0	42.6
<b>50</b>	1	-	-	56.0
	17	-	-	52.0
	60	-	-	53.2

**Straight seat body (code G)**

DN	Connection type (code)	Actuator version		
		1G1	1G2	1G3
<b>15</b>	8, 11, 39, 48	4.6	4.6	4.6
<b>20</b>	8, 11, 39, 48	8.0	8.0	8.0
<b>25</b>	8, 11, 39, 48	13.0	13.0	13.0
<b>32</b>	8, 11, 39, 48	-	22.0	22.0
<b>40</b>	8, 11, 39, 48	-	35.0	35.0
<b>50</b>	8, 11, 39, 48	-	50.0	50.0

Cv values in m<sup>3</sup>/h

Kv values determined in accordance with EN 60534. The Kv value specifications refer to control function 1 (NC). The Kv values for other product configurations (e.g. other connections or body materials) may differ.

## Product conformity

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

**Pressure Equipment Directive:** 2014/68/EU

**Machinery Directive:** 2006/42/EC

**Explosion protection:** ATEX (2014/34/EU) on request

## Mechanical data

**Weight:** Actuator, control function 1 (without valve body)

DN	Actuator size		
	1	2	3
8	0.74	1.11	1.46
10	0.74	1.11	1.46
15	0.74	1.11	1.46
20	0.78	1.15	1.49
25	0.84	1.21	1.55
32	-	1.37	1.71
40	-	-	1.81
50	-	-	1.99

Weights in kg

**Angle seat body**

DN	Spigot	Threaded socket	Threaded spigot	Flange	Clamp
	Connection type code				
	17, 59, 60	1, 3C, 3D	9	8, 11	82, 86, 88
8	0.12	0.25	-	-	-
10	0.12	0.25	-	-	-
15	0.16	0.25	0.31	-	0.37
10	0.25	0.25	0.50	-	0.63
15	0.24	0.35	0.65	1.80	0.63
20	0.50	0.35	1.00	2.50	1.08
25	0.50	0.35	1.30	3.10	1.28
32	0.90	0.75	1.80	4.60	2.07
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

**Weight:**

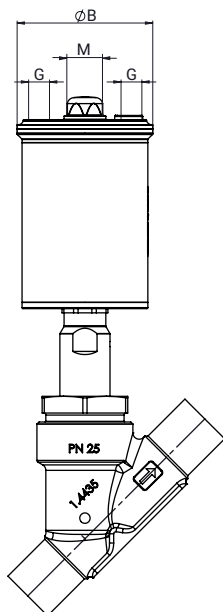
**Straight seat body**

DN	Weight
15	2.2
20	3.0
25	3.7
32	5.3
40	6.3
50	11.5

Weights in kg

## Dimensions

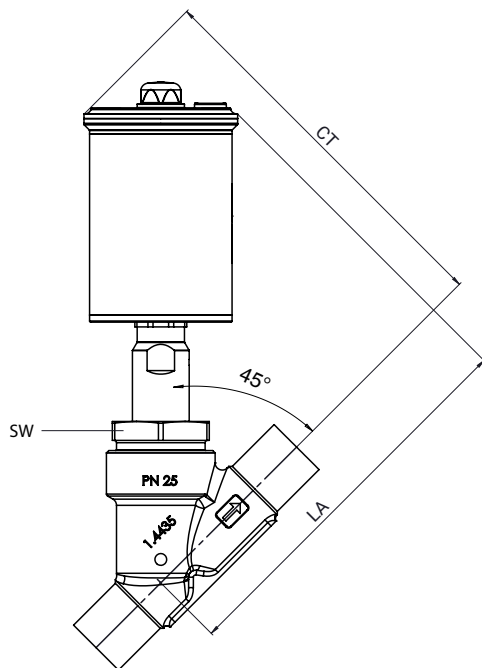
### Actuator dimensions



Actuator size	$\varnothing B$	M	G
1	50.8 mm	M 16 x 1	G 1/8
2	65 mm	M 16 x 1	G 1/8
3	70 mm	M 16 x 1	G 1/8

**Installation dimensions**

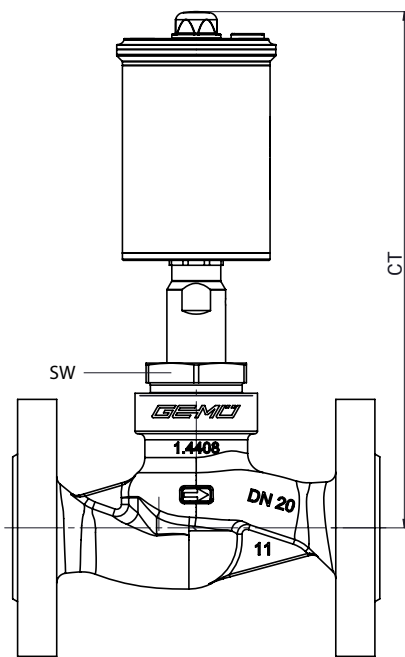
**Valve with angle seat body**



DN	WAF	Actuator size 1	Actuator size 2	Actuator size 3
		CT/LA	CT/LA	CT/LA
8	36			
10	36	138.0	155.0	160.5
15	36	142.0	158.5	163.6
20	41	146.5	164.0	196.5
25	46	151.3	168.2	173.3
32	-	-	175.7	180.7
40	60	-		186.4
50	55	-		194.7

Dimensions in mm



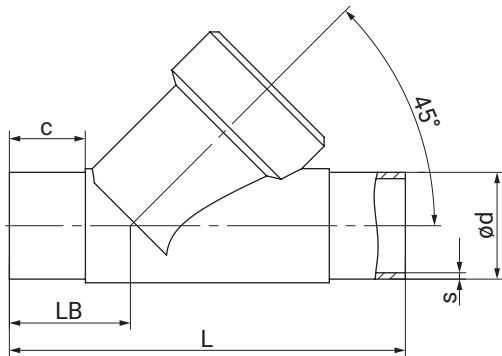
**Valve with straight seat body**

DN	WAF	Actuator size 1	Actuator size 2	Actuator size 3
		CT/LA	CT/LA	CT/LA
15	36	178.5	197.8	203.3
20	41	185.9	205.0	210.6
25	46	196.5	215.6	221.0
32	55	-	220.0	225.6
40		-	-	237.1
50		-	-	245.1

Dimensions in mm

## Body dimensions

### Spigot EN/ISO/ANSI/ASME/SMS (code 17, 60)



Connection type spigot EN/ISO/ASME (code 17, 60)<sup>1)</sup>, investment casting material (code 37)<sup>2)</sup>

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

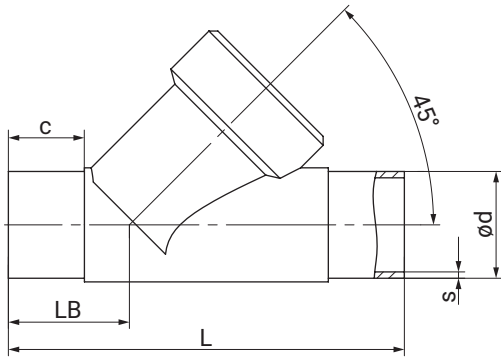
Dimensions in mm

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 edition)/DIN 11866 series B

2) **Valve body material**

Code 37: 1.4408, investment casting

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

Dimensions in mm

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

DN	NPS	c (min)			ød			L	LB	s		
		Connection type								Connection type		
		17	59	60	17	59	60			17	59	60
<b>8</b>	<b>1/4"</b>	-	-	20	-	-	13.5	105.0	35.5	-	-	1.6
<b>10</b>	<b>3/8"</b>	20	-	20	13.0	-	17.2	105.0	35.5	1.5	-	1.6
<b>15</b>	<b>1/2"</b>	20	15	20	19.0	12.70	21.3	105.0	35.5	1.5	1.65	1.6
<b>20</b>	<b>3/4"</b>	25	25	25	23.0	19.05	26.9	120.0	39.0	1.5	1.65	1.6
<b>25</b>	<b>1"</b>	24	24	24	29.0	25.40	33.7	125.0	39.5	1.5	1.65	2.0
<b>32</b>	<b>1¼"</b>	27	-	26.1	35.0	-	42.4	155.0	48.0	1.5	-	2.0
<b>40</b>	<b>1½"</b>	24	23	28.9	41.0	38.10	48.3	160.0	47.0	1.5	1.65	2.0
<b>50</b>	<b>2"</b>	28.23	28.23	48	53.0	50.80	60.3	180.0	48.0	1.5	1.65	2.0

**1) Connection type**

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

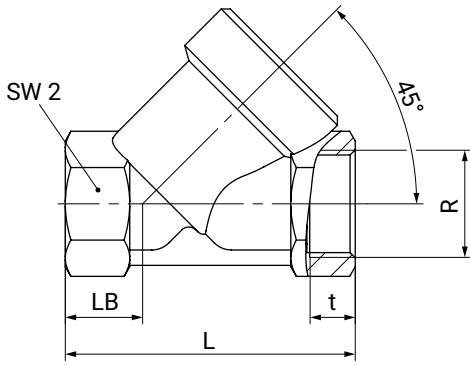
Code 59: Spigot ASME BPE/DIN EN 10357 series C (from 2022 edition)/DIN 11866 series C

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

**2) Valve body material**

Code C2: 1.4435, investment casting

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



**Connection type threaded socket DIN (code 1)<sup>1)</sup>, investment casting material (code 37)<sup>2)</sup>**

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

Dimensions in mm

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

DN	NPS	L	LB	R		SW2	t	
				Connection type			Connection type	
				3C	3D		3C	3D
15	1/2"	65.0	16.5	Rc 1/2	1/2" NPT	27	15.0	13.6
20	3/4"	75.0	17.5	Rc 3/4	3/4" NPT	32	16.3	14.1
25	1"	90.0	24.0	Rc 1	1" NPT	41	19.1	17.0
32	1 1/4"	110.0	33.0	Rc 1 1/4	1 1/4" NPT	50	21.4	17.5
40	1 1/2"	120.0	30.0	Rc 1 1/2	1 1/2" NPT	55	21.4	17.3
50	2"	150.0	40.0	Rc 2	2" NPT	70	25.7	17.8

**1) Connection type**

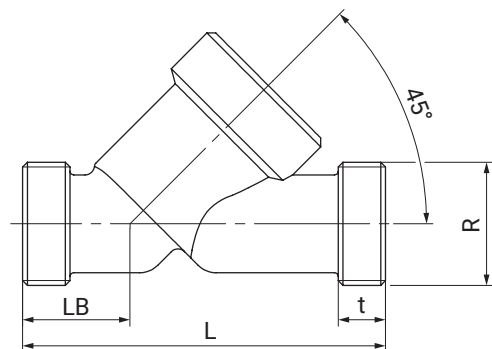
Code 1: Threaded socket DIN ISO 228

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 spigot DIN (code 9)**

Dimensions in mm

**Connection type threaded spigot DIN (code 9)<sup>1)</sup>, investment casting material (code 37)<sup>2)</sup>**

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

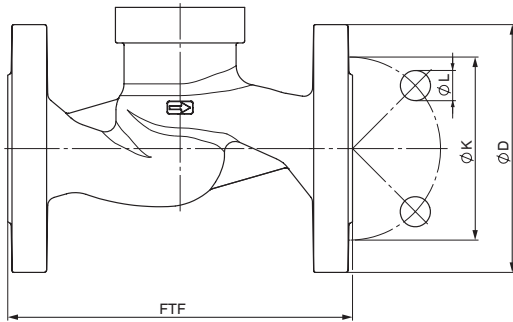
**1) Connection type**

Code 9: Threaded spigot DIN ISO 228

**2) Valve body material**

Code 37: 1.4408, investment casting

**Flange EN (code 8)**



**Connection type flange, length EN 558 (code 8)<sup>1)</sup>, investment casting material (code 37)<sup>2)</sup>**

DN	NPS	ø D	FTF	ø K	ø L	n
50	2"	165.0	230.0	125.0	18.0	4

**Connection type flange, length EN 558 (code 8)<sup>1)</sup>, SG iron material (code 90)<sup>2)</sup>**

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

Dimensions in mm

n = number of bolts

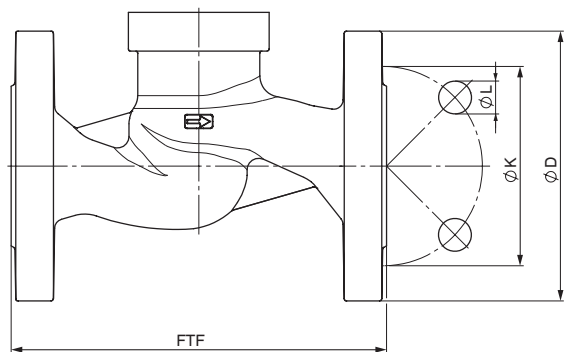
**1) Connection type**

Code 8: Flange EN 1092, PN 16, 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

Code 90: EN-GJS-400-18-LT (GGG 40.3)

**Flange EN (code 11, 48)**

DN 15–50 (code 48)

DN 40, 50 (code 11)

**Connection type flange, length EN 558 (code 11),<sup>1)</sup> investment casting material (code 37)<sup>2)</sup>**

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

**Connection type flange, length EN 558 (code 48)<sup>1)</sup>, investment casting material (code 37)<sup>2)</sup>**

DN	NPS	ø D	FTF	ø k	ø L	n
15	1/2"	95.0	108.0	70.0	15.0	4
20	3/4"	100.0	117.0	75.0	15.0	4
25	1"	125.0	127.0	90.0	19.0	4
40	1½"	140.0	16.0	105.0	19.0	4
50	2"	155.0	203.0	120.0	19.0	4

Dimensions in mm

n = number of bolts

**1) Connection type**

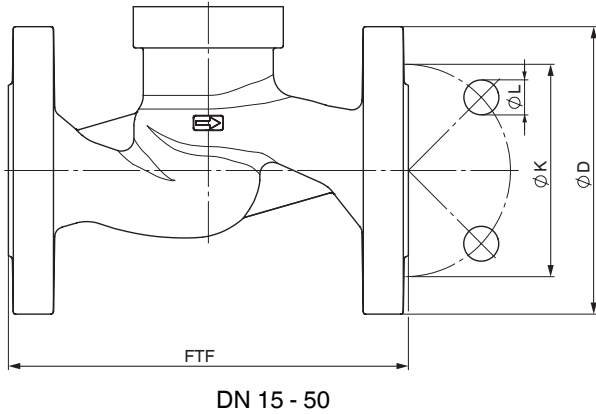
Code 11: Flange EN 1092, PN 40, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1

Code 48: Flange JIS 20K, face-to-face dimension FTF EN 558 series 10, ASME/ANSI B16.10 table 1, column 16, DN 50 drilled to JIS 10K

**2) Valve body material**

Code 37: 1.4408, investment casting

**Flange ANSI Class (code 39)**



**Connection type flange, length EN 558 (code 39)<sup>1)</sup>, investment casting material (code 37), SG iron material (code 90)<sup>2)</sup>**

DN	NPS	$\phi D$	FTF	$\phi K$	$\phi L$	n
15	1/2"	90.0	130.0	60.3	15.9	4
20	3/4"	100.0	150.0	69.9	15.9	4
25	1"	110.0	160.0	79.4	15.9	4
32	1¼"	115.0	180.0	88.9	15.9	4
40	1½"	125.0	200.0	98.4	15.9	4
50	2"	150.0	230.0	120.7	19.0	4

Dimensions in mm  
n = number of bolts

**1) Connection type**

Code 39: Flange ANSI Class 125/150 RF, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1,

**2) Valve body material**

Code 37: 1.4408, investment casting

Code 90: EN-GJS-400-18-LT (GGG 40.3)





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