GEMÜ 507

Manually operated angle seat globe valve

EN **Operating instructions**

further information
webcode: GW-507

Contents

1 General information

1.1 Information

- The descriptions and instructions apply to the standard versions. For special versions not described in this document the basic information contained herein applies in combination with any additional special documentation.
- Correct installation, operation, maintenance and repair work ensure faultless operation of the product.
- Should there be any doubts or misunderstandings, the German version is the authoritative document.
- Contact us at the address on the last page for staff training information.

1.2 Symbols used

The following symbols are used in this document:

Symbol	Meaning
●	Tasks to be performed
▶	Response(s) to tasks
–	Lists

1.3 Definition of terms

Working medium

The medium that flows through the GEMÜ product.

1.4 Warning notes

Wherever possible, warning notes are organized according to the following scheme:

SIGNAL WORD	
Possible symbol for the specific danger	Type and source of the danger ▶Possible consequences in case of non-compliance ●Measures for avoiding danger

Warning notes are always labelled with a signal word and sometimes also with a symbol for the specific danger.

The following signal words and danger levels are used:

⚠ DANGER

Imminent danger!

▶ Non-observance can cause death or severe injury

⚠ WARNING

Potentially dangerous situation!

▶ Non-observance can cause death or severe injury

⚠ CAUTION

Potentially dangerous situation!

▶ Non-observance can cause moderate to light injury

NOTICE

Potentially dangerous situation!

▶ Non-observance can cause damage to property

The following symbols for the specific dangers can be used within a warning note:

Symbol	Meaning
	Danger of explosion!
	The equipment is subject to pressure!
	Corrosive chemicals!
	Hot plant components!
	Maximum permissible pressure exceeded!
	Leakage!
	Use as an end-of-line valve!

2 Safety information

The safety information in this document refers only to an individual product. Potentially dangerous conditions can arise in combination with other plant components, which need to be considered on the basis of a risk analysis. The operator is responsible for the production of the risk analysis and for compliance with the resulting precautionary measures and regional safety regulations.

The document contains fundamental safety information that must be observed during commissioning, operation and maintenance. Non-compliance with these instructions may cause:

- Personal hazard due to electrical, mechanical and chemical effects
- Hazard to nearby equipment
- Failure of important functions
- Hazard to the environment due to the leakage of dangerous materials

The safety information does not take into account:

- Unexpected incidents and events, which may occur during installation, operation and maintenance
- Local safety regulations which must be adhered to by the operator and by any additional installation personnel

Prior to commissioning:

1. Transport and store the product correctly.
2. Do not paint the bolts and plastic parts of the product.
3. Carry out installation and commissioning using trained personnel.
4. Provide adequate training for installation and operating personnel.
5. Ensure that the contents of the document have been fully understood by the responsible personnel.
6. Define the areas of responsibility.
7. Observe the safety data sheets.
8. Observe the safety regulations for the media used.

During operation:

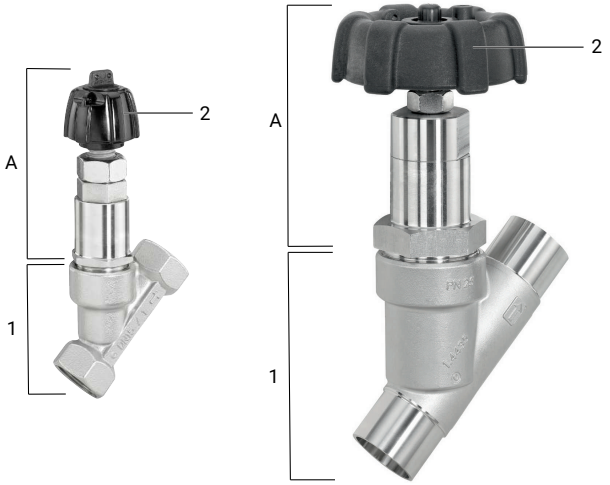
9. Keep this document available at the place of use.
10. Observe the safety information.
11. Operate the product in accordance with this document.
12. Operate the product in accordance with the specifications.
13. Maintain the product correctly.
14. Do not carry out any maintenance work and repairs not described in this document without consulting the manufacturer first.

In cases of uncertainty:

15. Consult the nearest GEMÜ sales office.

3 Product description

3.1 Construction



Item	Name	Materials
A	Actuator	
1	Valve body	1.4435 (ASTM A 351 CF3M 316L), investment casting 1.4408, investment casting 1.4435 (316 L), forged body 1.4435, investment casting
2	Handwheel	

3.2 Description

The GEMÜ 507 2/2-way angle seat globe valve has an ergonomically designed plastic handwheel and is manually 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.

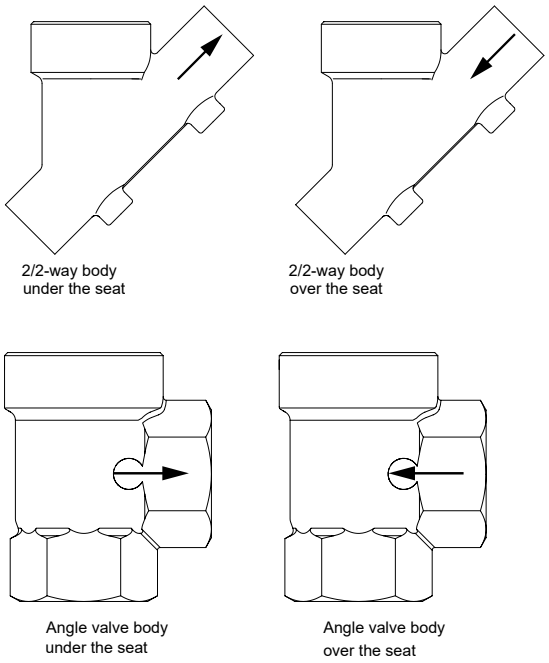
3.3 Function

The product controls a flowing medium by manual operation.

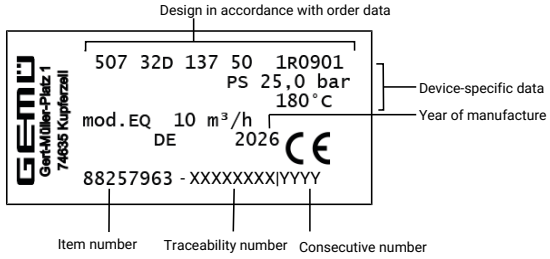
The product has an optical position indicator as standard. The optical position indicator indicates the OPEN and CLOSED positions.

3.4 Flow direction

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



3.5 Product label



The month of manufacture is encoded in the traceability number and can be obtained from GEMÜ. The product was manufactured in Germany.

4 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

5 Intended use

⚠ DANGER

Danger of explosion!

- ► Risk of severe injury or death
- ● Only use the product in potentially explosive zones confirmed in the declaration of conformity.

⚠ WARNING

Improper use of the product!

- ► Risk of severe injury or death
- ► Manufacturer liability and guarantee will be void.
- ● Only use the product in accordance with the operating conditions specified in the contract documentation and in this document.

The product is designed for installation in piping systems and for controlling a working medium.

1. Use the product in accordance with the technical data.
2. Note the supplement acc. to ATEX.
3. Please note the flow direction on the valve body.

6 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, manually operated, plastic handwheel	507

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 connection	
Threaded socket DIN ISO 228	1
Threaded socket Rc ISO 7-1, EN 10226-2, JIS B 0203, BS 21, end-to-end dimension ETE DIN 3202-4 series M8	3C
Threaded socket NPT, end-to-end dimension ETE DIN 3202-4 series M8	3D
Threaded spigot DIN ISO 228	9
Flange	
Flange EN 1092, PN 25, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1	10
Flange EN 1092, PN 25, form B	13
Flange ANSI Class 150 RF	47
Clamp	
Clamp 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
Note: For FDA conformity, select K number 2013.	

7 Control function	Code
Manually operated, with handwheel locknut	0

8 Actuator version	Code
Actuator size 0	0
Actuator size 1	1
Actuator size 1 Extended valve spindle	1E
Actuator size 2	2
Actuator size 2 Extended valve spindle	2E

9 Regulating cone	Code
Please find the number of the optional regulating cone (R-No.) for the linear or equal-percentage modified regulating cone in the Kv value table.	R....

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

10 Type of design	Code
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
PTFE-PTFE spindle seal	2013
For higher operating temperatures	2023

11 Special version	Code
Without	

11 Special version	Code
Rigid plug fixing Special version for oxygen, (max. temperature 60 °C; max. operating pressure 10 bar), flow direction only possible under the seat! Media wetted seal materials and auxiliary materials with BAM testing	B
Rigid plug fixing	C
Special version for oxygen, (max. temperature 60 °C; max. operating pressure 10 bar), media wetted seal materials and auxiliary materials with BAM testing	S
Note: Rigid plug fixing is standard for actuator size 0	

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

Order example

Ordering option	Code	Description
1 Type	507	Angle seat globe valve, manually operated, plastic handwheel
2 DN	25	DN 25
3 Housing configuration	D	2/2-way body
4 Connection type	60	Spigot ISO 1127/DIN EN 10357 series C (2014 issue)/DIN 11866 series B
5 Valve body material	34	1.4435, investment casting
6 Seat seal	5	PTFE
7 Control function	0	Manually operated, with handwheel locknut
8 Actuator version	1	Actuator size 1
9 Regulating cone	RS237	15 m³/h – linear
10 Type of design		Without
11 Special version	C	Rigid plug fixing
12 CONEXO		Without

7 Technical data

7.1 Medium

Working medium: Corrosive, inert, gaseous and liquid media which have no negative impact on the physical and chemical properties of the body and seal material.

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

7.2 Special version for oxygen

Special version for oxygen: The S/B special version comes with PTFE-PTFE packing as standard, so K-no. 2013 does not need to be used for FDA conformity and 1935/2004.

7.3 Temperature

Media temperature:

Standard:	-10 — 180 °C
Special version:	-10 — 210 °C only with ordering option Seat seal code 5G or 10 and Type of design 2023

Ambient temperature: -10 — 60 °C

Storage temperature: 0 — 40 °C

7.4 Pressure

Operating pressure: Actuator size 0 (DN 6 to 15): max. 25 bar
Actuator size 1, 1E (DN 8 to 50): max. 25 bar
Actuator size 2, 2E (DN 65, 80): max. 16 bar
All pressures are gauge pressures.

Leakage rate:

Open/Close valve

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

Control valve

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

Pressure/temperature correlation:

Connection type code	Material code	Max. allowable 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
0, 16, 17, 37, 59, 60	**34**	25.0	24.5	22.4	20.3	18.2	16.1
13 (DN 15 - 50)	**34**	25.0	23.6	21.5	19.8	18.6	17.2
88 (DN 15 – DN 40)	**34**	25.0	21.2	19.3*	-	-	-
88 (DN 15 – DN 80)	**34**	16.0	16.0	16.0*	-	-	-
82 (DN 15 - 32)	**34**	25.0	21.2	19.3*	-	-	-
82 (DN 40 - 65)	**34**	16.0	16.0	16.0*	-	-	-
86 (DN 15 - 40)	**34**	25.0	21.2	19.3*	-	-	-
86 (DN 50 - 65)	**34**	16.0	16.0	16.0*	-	-	-
10 (DN 15 - 50)	**37**	25.0	25.0	22.7	21.0	19.8	18.5
47 (DN 15 - 50)	**34**	15.9	13.3	12.0	11.1	10.2	9.7
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

Kv values:

Open/Close valve

DN	Butt weld spigot DIN 11850	Butt weld spigot DIN 11866	Threaded socket DIN ISO 228
6	1.6	-	-
8	1.8	2.2	-
10	2.4	4.5	4.5
15	2.4	5.5	5.4
20	-	11.7	10.0
25	-	20.5	15.2
32	-	33.0	23.0
40	-	51.0	41.0
50	-	61.0	68.0
65	-	110.0	95.0
80	-	117.0	130.0

Kv values in m^3/h
Kv values determined in accordance with DIN EN 60534. The Kv value specifications refer to control function 1 (NC) and the largest actuator for the respective nominal size.
The Kv values for other product configurations (e.g. other connections or body materials) may differ.
Kv values AG0 on request.

Kv values:

Standard regulating cone (DIN), not for connection code 37, 59, 88

DN	Kv values	Operating pressure	Actuator version	linear	equal percentage
15	5	25	1	RS235	RS245
20	10	25	1	RS236	RS246
25	15	25	1	RS237	RS247
32	24	25	1	RS238	RS248
40	38	25	1	RS239	RS249
50	60	25	1	RS240	RS250

Always order standard regulating cones with special function code C – rigid valve plug
Kv values in m³/h
Pressures in bar

Standard regulating cone (DIN), only for connection code 37, 59, 88

DN	Kv values	Operating pressure	Actuator version	linear	equal percentage
15	2.7	25	1	RS251	RS261
20	6.3	25	1	RS252	RS262
25	13.3	25	1	RS253	RS263
40	35.6	25	1	RS254	RS264
50	58.0	25	1	RS255	RS265

Always order standard regulating cones with special function code C – rigid valve plug
Kv values in m³/h
Pressures in bar

7.5 Product conformity

Pressure Equipment Directive:	2014/68/EU
Food:	Regulation (EC) No. 1935/2004* Regulation (EC) No. 10/2011* Regulation (EC) No. 2023/2006* USP* Class VI
Approvals:	FDA*
Explosion protection:	The product does not contain any potential ignition sources and therefore does not fall within the area of application of the ATEX Directive 2014/34/EU.
Environment:	RoHS

7.6 Mechanical data

Weight:

Actuator

DN	Actuator size		
	0	1, 1E	2, 2E
6	0.3		-
8	0.3	1.0	-
10	0.3	1.0	-
15	0.3	1.0	-
20	-	1.2	-
25	-	1.4	-
32	-	2.4	-
40	-	2.6	-
50	-	3.8	-
65	-	-	6.8
80	-	-	8.4

Weights in kg

Body

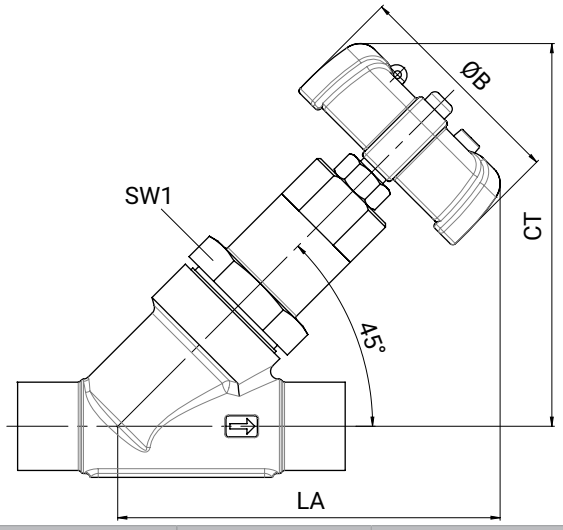
DN	Spigot K514	Threaded socket	Threaded spigot	Flange K514	Clamp
	Connection type code				
	0, 16, 17, 37, 59, 60	1, 3C, 3D	9	10, 13, 47	82, 86, 88
6	0.12	-	0.14	-	-
8	0.12	0.25	0.12	-	-
10	0.12	0.25	0.14	-	-
15	0.16	0.25	0.14	-	-
10	0.25	0.25	-	-	-
15	0.24	0.35	0.31	1.80	0.37
20	0.50	0.35	0.50	2.50	0.63
25	0.50	0.35	0.65	3.10	0.63
32	0.90	0.75	1.00	4.60	1.08
40	1.10	0.98	1.30	5.10	1.28
50	1.80	1.70	1.80	7.20	2.07
65	3.40	3.20	3.40	-	3.69
80	4.20	4.10	4.40	-	4.60

Weights in kg

8 Dimensions

8.1 Installation dimensions

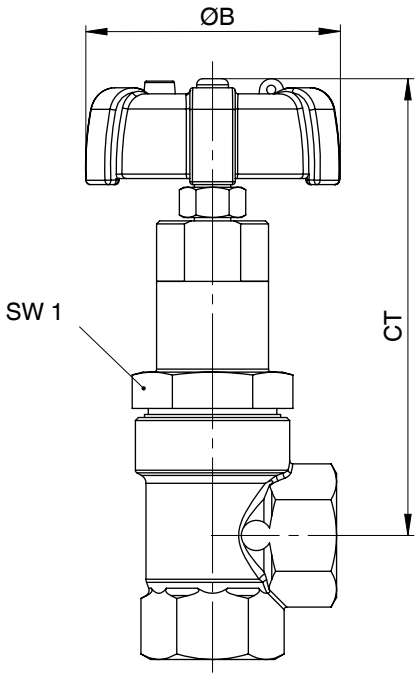
8.1.1 Valve with 2/2-way body



DN	Actuator size	ØB	CT/LA (max. height)		SW1	
			Control function Code0	Actuator size code 1E, 2E*		
6	**0**	32.0	89.0	-	24.0	hexagonal
8	**0**	32.0	89.0	-	24.0	hexagonal
10	**0**	32.0	89.0	-	24.0	hexagonal
15	**0**	32.0	89.0	-	24.0	hexagonal
8	**1, 1E**	90.0	149.0	168.0	41.0	hexagonal
10	**1, 1E**	90.0	149.0	168.0	41.0	hexagonal
15	**1, 1E**	90.0	152.0	171.0	41.0	hexagonal
20	**1, 1E**	90.0	159.0	179.0	46.0	hexagonal
25	**1, 1E**	90.0	167.0	186.0	46.0	hexagonal
32	**1, 1E**	90.0	176.0	196.0	41.0	double flat
40	**1, 1E**	90.0	185.0	205.0	41.0	double flat
50	**1, 1E**	90.0	196.0	216.0	41.0	double flat
65	**2, 2E**	140.0	259.0	277.0	60.0	double flat
80	**2, 2E**	140.0	276.0	294.0	60.0	double flat

* The actuator sizes code 1E, 2E (handwheel extension) are required for valve bodies with flanges
Dimensions in mm

8.1.2 Valve with angle valve body

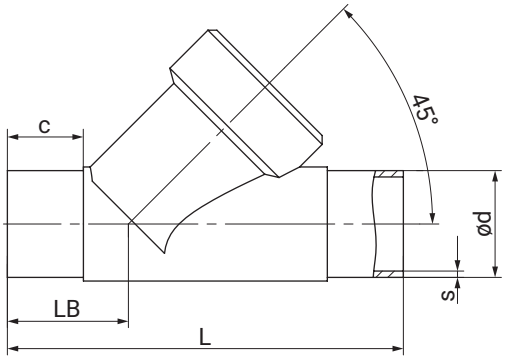


DN	Actuator size	ØB	CT (max. height)	SW 1	
15	**1, 1E**	90.0	153.0	41.0	hexagonal
20	**1, 1E**	90.0	158.0	46.0	hexagonal
25	**1, 1E**	90.0	167.0	46.0	hexagonal
32	**1, 1E**	90.0	172.0	41.0	double flat
40	**1, 1E**	90.0	183.0	41.0	double flat
50	**1, 1E**	90.0	194.0	41.0	double flat

Dimensions in mm

8.2 Body dimensions

8.2.1 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]

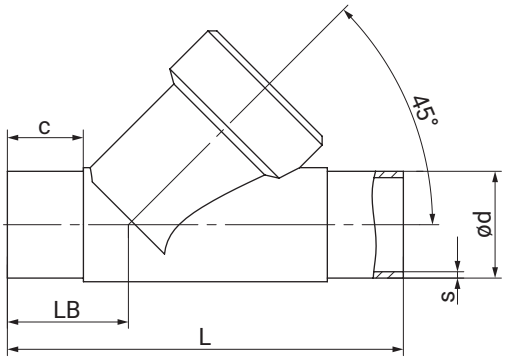
DN	NPS	c (min)					ød					L	LB	s				
		Connection type												Connection type				
		0	16	17	59	60	0	16	17	59	60			0	16	17	59	60
6	**1/8"**	20.0	-	-	-	20.0	8.0	-	-	-	-	80.0	26.5	1.0	-	-	-	-
8	**1/4"**	20.0	-	20.0	10.0	-	10.0	-	10.0	6.35	13.5	80.0	26.5	1.0	-	1.0	0.98	1.6
10	**3/8"**	-	20.0	20.0	20.0	-	-	12.0	13.0	9.53	-	80.0	26.5	-	1.0	1.5	0.89	-
15	**1/2"**	-	-	-	20.0	-	-	-	-	12.70	-	80.0	26.5	-	-	-	1.65	-

Dimensions in mm

1) **Connection type**
Code 0: Spigot DIN
Code 16: Spigot DIN EN 10357 series B (2014 issue; formerly DIN 11850 series 1)
Code 17: Spigot EN 10357 series A/DIN 11866 series A, formerly DIN 11850 series 2
Code 59: Spigot ASME BPE/DIN EN 10357 series C (from 2022 issue)/DIN 11866 series C
Code 60: Spigot ISO 1127/DIN EN 10357 series C (2014 issue)/DIN 11866 series B

2) **Valve body material**
Code 40: 1.4435 (F316L), forged body

8.2.2 Spigot DIN/EN/ISO/ANSI/ASME/SMS (code 0, 16, 17, 37, 59, 60), actuator size 1, 1E, 2, 2E



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"**	-	20.0	20.0	20.0	-	12.0	13.0	17.2	105.0	35.5	-	1.0	1.5	1.6
15	**1/2"**	20.0	20.0	20.0	20.0	18.0	18.0	19.0	21.3	105.0	35.5	1.5	1.0	1.5	1.6
20	**3/4"**	25.0	25.0	25.0	25.0	22.0	22.0	23.0	26.9	120.0	39.0	1.5	1.0	1.5	1.6
25	**1"**	24.5	24.5	24.5	24.5	28.0	28.0	29.0	33.7	125.0	38.5	1.5	1.0	1.5	2.0
32	**1¼"**	-	26.0	27.0	29.0	-	34.0	35.0	42.4	155.0	48.0	-	1.0	1.5	2.0
40	**1½"**	24.0	24.0	24.0	43.7	40.0	40.0	41.0	48.3	160.0	47.0	1.5	1.0	1.5	2.0
50	**2"**	29.0	29.0	29.0	29.0	52.0	52.0	53.0	60.3	180.0	48.0	1.5	1.0	1.5	2.0

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

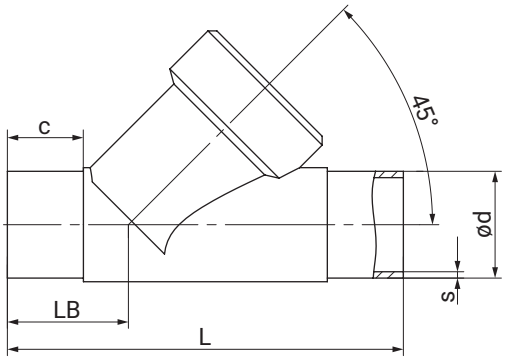
DN	NPS	c (min)		ød		L	LB	s	
		Connection type						Connection type	
		37	59	37	59			37	59
15	**1/2"**	-	20.0	-	12.70	105.0	35.5	-	1.65
20	**3/4"**	-	25.0	-	19.05	120.0	39.0	-	1.65
25	**1"**	24.5	24.5	25.0	25.40	125.0	38.5	1.2	1.65
32	**1¼"**	-	-	-	-	155.0	48.0	-	-
40	**1½"**	24.0	24.0	38.0	38.10	160.0	47.0	1.2	1.65
50	**2"**	29.0	29.0	51.0	50.80	180.0	48.0	1.2	1.65

Dimensions in mm

1) **Connection type**
Code 0: Spigot DIN
Code 16: Spigot DIN EN 10357 series B (2014 issue; formerly DIN 11850 series 1)
Code 17: Spigot EN 10357 series A/DIN 11866 series A, formerly DIN 11850 series 2
Code 37: Spigot SMS 3008
Code 59: Spigot ASME BPE/DIN EN 10357 series C (from 2022 issue)/DIN 11866 series C
Code 60: Spigot ISO 1127/DIN EN 10357 series C (2014 issue)/DIN 11866 series B

2) **Valve body material**
Code 34: 1.4435, investment casting

8.2.3 Spigot EN/ISO/ANSI/ASME/SMS (code 17, 37, 59, 60), actuator size 1, 1E, 2, 2E



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"**	18.0	18.0	19.0	21.3	100.0	33.0	1.5	1.6
20	**3/4"**	18.0	18.0	23.0	26.9	108.0	33.0	1.5	1.6
25	**1"**	18.0	18.0	29.0	33.7	112.0	32.0	1.5	2.0
32	**1¼"**	18.0	18.0	35.0	42.4	137.0	39.0	1.5	2.0
40	**1½"**	19.0	18.0	41.0	48.3	146.0	40.0	1.5	2.0
50	**2"**	20.0	20.0	53.0	60.3	160.0	38.0	1.5	2.0
65	**2½"**	52.5	47.0	70.0	76.1	290.0	96.0	2.0	2.0
80	**3"**	50.0	46.5	85.0	88.9	310.0	95.0	2.0	2.3

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

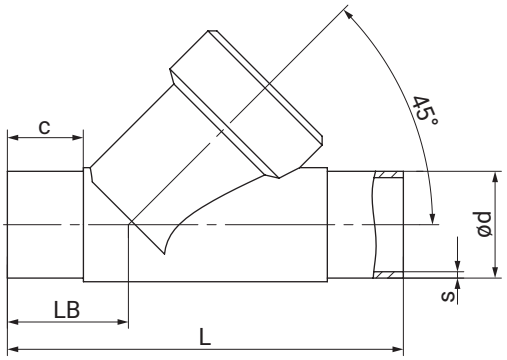
DN	NPS	c (min)		ød		L	LB	s	
		Connection type						Connection type	
		37	59	37	59			37	59
65	**2½"**	58	58	63.5	63.5	290.0	96.0	1.6	1.65
80	**3"**	58	58	76.1	76.0	310.0	95.0	1.6	1.65

Dimensions in mm

1) **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

8.2.4 Spigot EN/ISO/ASME (code 17, 59, 60), actuator size 1, 1E, 2, 2E



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

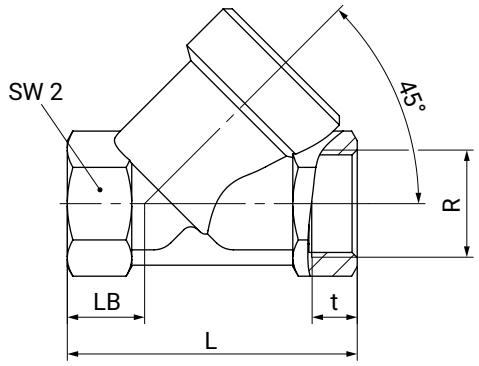
DN	NPS	c (min)			ød			L	LB	s		
		Connection type			Connection type					Connection type		
		17	59	60	17	59	60			17	59	60
8	**1/4"**	-	-	20.0	-	-	13.5	80.0	35.5	-	-	1.6
10	**3/8"**	20.0	-	20.0	13.0	-	17.2	100.0	35.5	1.5	-	1.6
15	**1/2"**	20.0	15.0	20.0	19.0	12.70	21.3	105.0	35.5	1.5	1.65	1.6
20	**3/4"**	25.0	25.0	25.0	23.0	19.05	26.9	120.0	39.0	1.5	1.65	1.6
25	**1"**	24.0	24.0	24.0	29.0	25.40	33.7	125.0	39.5	1.5	1.65	2.0
32	**1¼"**	27.0	-	26.1	35.0	-	42.4	155.0	48.0	1.5	-	2.0
40	**1½"**	24.0	23.0	28.9	41.0	38.10	48.3	160.0	47.0	1.5	1.65	2.0
50	**2"**	28.23	28.23	29.0	53.0	50.80	60.3	180.0	48.0	1.5	1.65	2.0
65	**2½"**	52.5	58.0	52.5	70.0	63.50	76.1	290.0	96.0	2.0	1.65	2.0
80	**3"**	50.2	58.0	46.82	85.0	76.20	88.9	310.0	95.0	2.0	1.65	2.3

Dimensions in mm

1) **Connection type**
Code 17: Spigot EN 10357 series A/DIN 11866 series A, formerly DIN 11850 series 2
Code 59: Spigot ASME BPE/DIN EN 10357 series C (from 2022 issue)/DIN 11866 series C
Code 60: Spigot ISO 1127/DIN EN 10357 series C (2014 issue)/DIN 11866 series B

2) **Valve body material**
Code C2: 1.4435, investment casting

8.2.5 Threaded socket DIN/NPT (code 1, 3C, 3D), body configuration D, actuator size 0



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

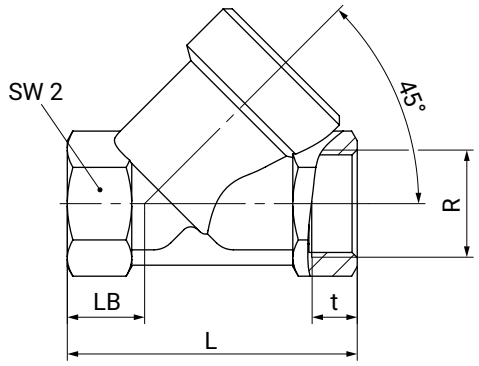
DN	NPS	L	LB			R			SW2	t		
			Connection type			Connection type				Connection type		
			1	3C	3D	1	3C	3D		1	3C	3D
8	**1/4"**	65.0	19.0	-	19.0	G 1/4	-	1/4" NPT	17	12.0	-	10.1
10	**3/8"**	65.0	19.0	27.0	27.0	G 3/8	G 3/8	3/8" NPT	24	12.0	11.4	10.4
15	**1/2"**	65.0	19.0	-	27.0	G 1/2	-	1/2" NPT	24	11.4	-	13.6

Dimensions in mm

1) **Connection type**
Code 1: Threaded socket DIN ISO 228
Code 3C: Threaded socket Rc ISO 7-1, EN 10226-2, JIS B 0203, BS 21, end-to-end dimension ETE DIN 3202-4 series M8
Code 3D: Threaded socket NPT, end-to-end dimension ETE DIN 3202-4 series M8

2) **Valve body material**
Code 37: 1.4408, investment casting

8.2.6 Threaded socket DIN/Rc/NPT (code 1, 3C, 3D), body configuration D, actuator size 1, 1E, 2, 2E



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

DN	NPS	L	LB	R	SW2	t
10	**3/8"**	65.0	16.5	G 3/8	27	11.4
15	**1/2"**	65.0	16.5	G 1/2	27	15.0
20	**3/4"**	75.0	17.5	G 3/4	32	16.3
25	**1"**	90.0	24.0	G 1	41	19.1
32	**1¼"**	110.0	33.0	G 1¼	50	21.4
40	**1½"**	120.0	30.0	G 1½	55	21.4
50	**2"**	150.0	40.0	G 2	70	25.7
65	**2½"**	190.0	46.0	G 2½	85	30.2
80	**3"**	220.0	50.0	G 3	100	33.3

Connection type threaded socket Rc/NPT (code 3C, 3D) [1], investment casting material (code 37) [2]

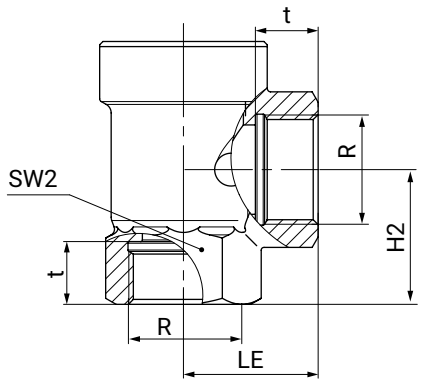
DN	NPS	L	LB	R		SW2	t	
				Connection type			Connection type	
				3C	3D		3C	3D
15	**1/2"**	65.0	16.5	Rc 1/2	1/2" NPT	27	15.0	13.6
20	**3/4"**	75.0	17.5	Rc 3/4	3/4" NPT	32	16.3	14.1
25	**1"**	90.0	24.0	Rc 1	1" NPT	41	19.1	17.0
32	**1¼"**	110.0	33.0	Rc 1¼	1¼" NPT	50	21.4	17.5
40	**1½"**	120.0	30.0	Rc 1½	1½" NPT	55	21.4	17.3
50	**2"**	150.0	40.0	Rc 2	2" NPT	70	25.7	17.8
65	**2½"**	190.0	46.0	Rc 2½	2½" NPT	85	30.2	23.7
80	**3"**	220.0	50.0	Rc 3	3" NPT	100	33.3	25.8

Dimensions in mm

1) **Connection type**
Code 1: Threaded socket DIN ISO 228
Code 3C: Threaded socket Rc ISO 7-1, EN 10226-2, JIS B 0203, BS 21, end-to-end dimension ETE DIN 3202-4 series M8
Code 3D: Threaded socket NPT, end-to-end dimension ETE DIN 3202-4 series M8

2) **Valve body material**
Code 37: 1.4408, investment casting

8.2.7 Threaded socket DIN/NPT (code 1, 3D), body configuration E, actuator size 1, 1E, 2, 2E



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

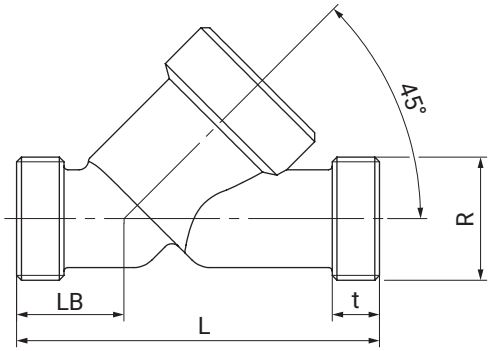
DN	NPS	H2	LE	SW2	R		t	
					Connection type		Connection type	
					1	3D	1	3D
15	**1/2"**	30.0	30.0	27	G 1/2	1/2" NPT	15.0	13.6
20	**3/4"**	37.5	35.0	32	G 3/4	3/4 " NPT	16.3	14.1
25	**1"**	41.0	41.0	41	G 1	1" NPT	19.1	17.0
32	**1¼"**	48.0	50.0	50	G 1¼	1¼" NPT	21.4	17.5
40	**1½"**	55.0	50.0	55	G 1½	1½" NPT	21.4	17.3
50	**2"**	62.0	60.0	70	G 2	2" NPT	25.7	17.8

Dimensions in mm

1) **Connection type**
Code 1: Threaded socket DIN ISO 228
Code 3D: Threaded socket NPT, end-to-end dimension ETE DIN 3202-4 series M8

2) **Valve body material**
Code 37: 1.4408, investment casting

8.2.8 Threaded spigot DIN (code 9), actuator size 0



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

DN	L	LB	R	t
6	65.0	19.0	G 1/4	12.0

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

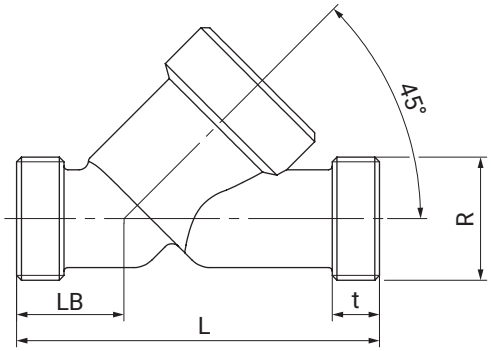
DN	L	LB	R	t
8	65.0	19.0	G 3/8	12.0
10	65.0	19.0	G 1/2	12.0
15	65.0	19.0	G 3/4	12.0

Dimensions in mm

1) **Connection type**
Code 9: Threaded spigot DIN ISO 228

2) **Valve body material**
Code 37: 1.4408, investment casting
Code 40: 1.4435 (F316L), forged body

8.2.9 Threaded spigot DIN (code 9) , actuator size 1, 1E, 2, 2E



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

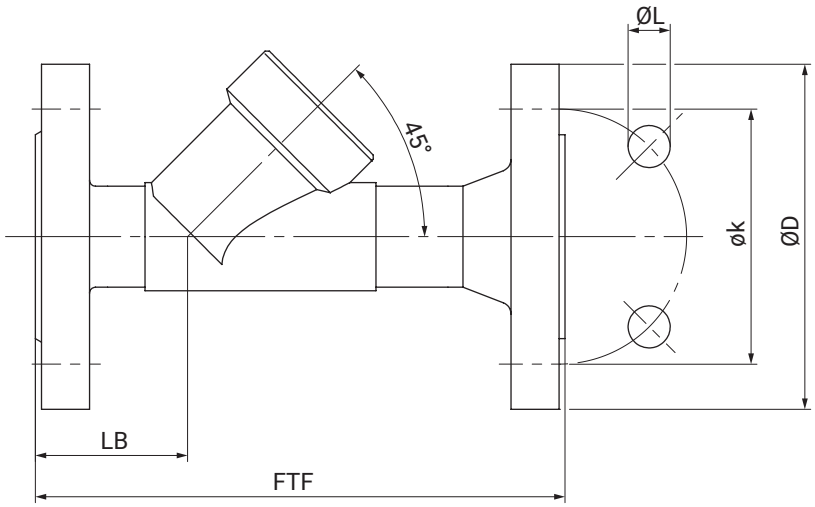
DN	L	LB	R	t
15	90.0	25.0	G 3/4	12.0
20	110.0	30.0	G 1	15.0
25	118.0	30.0	G 1¼	15.0
32	130.0	38.0	G 1½	13.0
40	140.0	35.0	G 1¾	13.0
50	175.0	50.0	G 2⅜	15.0
65	216.0	52.0	G 3	15.0
80	254.0	64.0	G 3½	18.0

Dimensions in mm

1) **Connection type**
Code 9: Threaded spigot DIN ISO 228

2) **Valve body material**
Code 37: 1.4408, investment casting

8.2.10 Flange EN (code 10), actuator size 1E, 2E



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

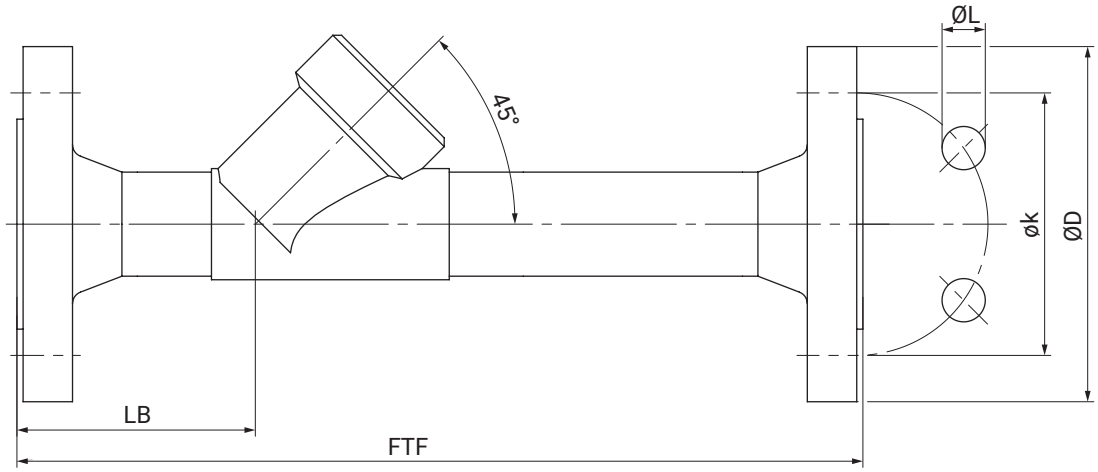
DN	NPS	ø D	FTF	ø k	ø L	LB	n
15	**1/2"**	95.0	130.0	65.0	14.0	33.0	4
20	**3/4"**	105.0	150.0	75.0	14.0	45.0	4
25	**1"**	115.0	160.0	85.0	14.0	44.0	4
32	**1¼"**	140.0	180.0	100.0	18.0	51.0	4
40	**1½"**	150.0	200.0	110.0	18.0	52.0	4
50	**2"**	165.0	230.0	125.0	18.0	50.0	4

Dimensions in mm
n = number of bolts

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

2) **Valve body material**
Code 37: 1.4408, investment casting

8.2.11 Flange for special length, EN/ANSI (code 13, 47), actuator size 1, 1E, 2, 2E



Connection type flange, special length EN/ANSI (code 13, 47) [1], investment casting material (code 34) [2]

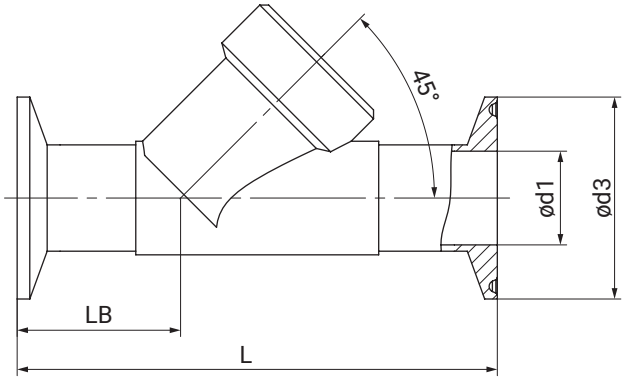
DN	NPS	ØD		FTF	øk		ØL		LB	n
		Connection type			Connection type		Connection type			
		13	47		13	47	13	47		
15	**1/2"**	95.0	89.0	210.0	65.0	60.5	14.0	15.7	72.0	4
20	**3/4"**	105.0	98.6	280.0	75.0	69.8	14.0	15.7	78.0	4
25	**1"**	115.0	108.0	280.0	85.0	79.2	14.0	15.7	77.0	4
32	**1¼"**	140.0	117.3	310.0	100.0	88.9	18.0	15.7	89.0	4
40	**1½"**	150.0	127.0	320.0	110.0	98.6	18.0	15.7	91.0	4
50	**2"**	165.0	152.4	330.0	125.0	120.7	18.0	19.1	95.0	4

Dimensions in mm
n = number of bolts

1) **Connection type**
Code 13: Flange EN 1092, PN 25, form B
Code 47: Flange ANSI Class 150 RF

2) **Valve body material**
Code 34: 1.4435, investment casting

8.2.12 Clamp DIN/ASME (code 82, 86, 88), actuator size 1, 1E, 2, 2E



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"**	18.1	16.0	9.40	50.5	34.0	25.0	130.0	130.0	130.0	47.5	47.5	47.5
20	**3/4"**	23.7	20.0	15.75	50.5	34.0	25.0	150.0	150.0	150.0	54.0	54.0	54.0
25	**1"**	29.7	26.0	22.10	50.5	50.5	50.5	160.0	160.0	160.0	56.0	56.0	56.0
32	**1¼"**	38.4	32.0	-	64.0	50.5	-	180.0	180.0	-	62.0	62.0	-
40	**1½"**	44.3	38.0	34.80	64.0	50.5	50.5	200.0	200.0	200.0	67.0	67.0	67.0
50	**2"**	56.3	50.0	47.50	77.5	64.0	64.0	230.0	230.0	230.0	73.0	73.0	73.0

Dimensions in mm

1) **Connection type**
Code 82: Clamp DIN 32676 series B, face-to-face dimension FTF EN 558 series 1
Code 86: Clamp DIN 32676 series A, face-to-face dimension FTF EN 558 series 1
Code 88: Clamp ASME BPE, for pipe ASME BPE, face-to-face dimension FTF EN 558 series 1

2) **Valve body material**
Code 34: 1.4435, investment casting

9 Manufacturer's information

9.1 Packaging

The product is packaged in a cardboard box which can be recycled as paper.

9.2 Transport

1. Only transport the product by suitable means. Do not drop. Handle carefully.
2. After the installation dispose of transport packaging material according to relevant local or national disposal regulations / environmental protection laws.

9.3 Storage

1. Store the product free from dust and moisture in its original packaging.
2. Avoid UV rays and direct sunlight.
3. Do not exceed the maximum storage temperature (see chapter "Technical data").
4. Do not store solvents, chemicals, acids, fuels or similar fluids in the same room as GEMÜ products and their spare parts.
5. Close the compressed air connections with protection caps or sealing plugs.

9.4 Delivery

- Check that all parts are present and check for any damage immediately upon receipt.

The product's performance is tested at the factory. The scope of delivery is apparent from the dispatch documents and the design from the order number.

10 Installation in piping

10.1 Preparing for installation

⚠ WARNING

The equipment is subject to pressure!

► Risk of severe injury or death

- Depressurize the plant or plant component.
- Completely drain the plant or plant component.

⚠ WARNING

Corrosive chemicals!

► Risk of caustic burns

- Wear appropriate protective gear.
- Completely drain the plant.

⚠ CAUTION

Hot plant components!

► Burns

- Only work on plant that has cooled down.
- Wear protective gear.

⚠ CAUTION

Maximum permissible pressure exceeded!

► Damage to the product!

- Provide for precautionary measures against exceeding the maximum permissible pressure that may be caused by pressure surges (water hammer).

⚠ CAUTION

Use as step!

► Damage to the product

► Risk of slipping-off

- Choose the installation location so that the product cannot be used as a foothold.
- Do not use the product as a step or a foothold.

NOTICE

Suitability of the product!

► The product must be appropriate for the piping system operating conditions (medium, medium concentration, temperature and pressure) and the prevailing ambient conditions.

NOTICE

Tools!

► The tools required for installation and assembly are not included in the scope of delivery.

● Use appropriate, functional and safe tools.

1. Ensure the product is suitable for the relevant application.
2. Check the technical data of the product and the materials.
3. Keep appropriate tools ready.
4. Wear appropriate protective gear, as specified in the plant operator's guidelines.
5. Observe appropriate regulations for connections.
6. Have installation work carried out by trained personnel.
7. Shut off plant or plant component.
8. Secure plant or plant component against recommissioning.
9. Depressurize the plant or plant component.
10. Completely drain the plant (or plant component) and let it cool down until the temperature is below the media vaporization temperature and cannot cause scalding.
11. Correctly decontaminate, rinse and ventilate the plant or plant component.
12. Lay piping so that the product is protected against transverse and bending forces, and also from vibrations and tension.
13. Only install the product between matching aligned pipes (see chapters below).
14. Please note the flow direction (see chapter "Flow direction").
15. Please note the installation position (see chapter "Installation position").

10.2 Installation position

The installation position of the product is optional.

10.3 Installation with butt weld spigots

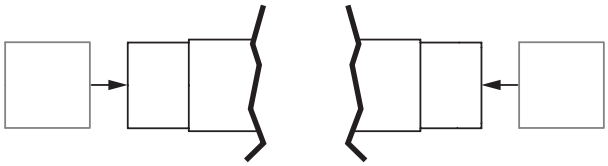


Fig. 1: Butt weld spigots

1. Carry out preparations for installation (see chapter "Preparing for installation").
2. Adhere to good welding practices!
3. Disassemble the actuator before welding in the valve body (see chapter "Removing the actuator").
4. Weld the body of the product in the piping.
5. Allow butt weld spigots to cool down.
6. Reassemble the valve body and the actuator (see chapter "Mounting the actuator").
7. Re-attach or reactivate all safety and protective devices.
8. Flush the system.

10.4 Installation with threaded sockets

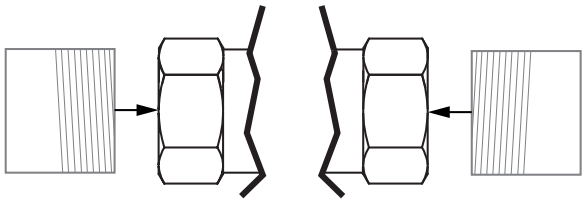


Fig. 2: Threaded socket

NOTICE

Sealing material!

► The sealing material is not included in the scope of delivery.

● Only use appropriate sealing material.

1. Keep thread sealant ready.
2. Carry out preparations for installation (see chapter "Preparing for installation").
3. Screw the threaded connections into the pipe in accordance with valid standards.
4. Screw the body of the product onto the piping using appropriate thread sealant.
5. Re-attach or reactivate all safety and protective devices.

10.5 Installation with threaded spigots

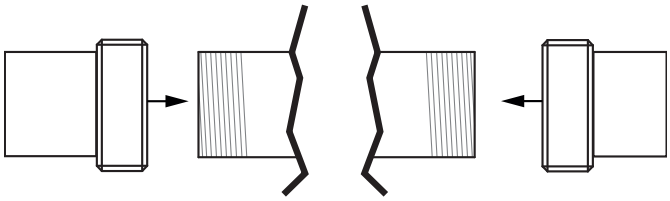


Fig. 3: Threaded spigots

NOTICE

Thread sealant!

► The thread sealant is not included in the scope of delivery.

● Only use appropriate thread sealant.

1. Keep thread sealant ready.
2. Carry out preparations for installation (see chapter "Preparing for installation").
3. Screw the pipe into the threaded connection of the valve body in accordance with valid standards.

   ⇨ Use appropriate thread sealant.
4. Re-attach or reactivate all safety and protective devices.

10.6 Installation with flanged connection

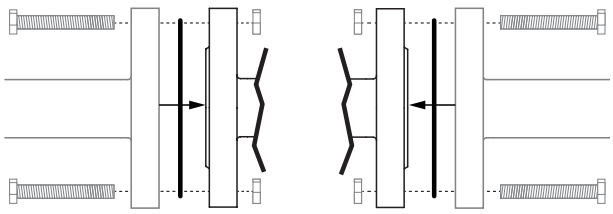


Fig. 4: Flanged connection

NOTICE

Sealing material!

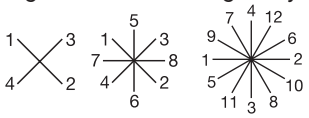
► The sealing material is not included in the scope of delivery.
● Only use appropriate sealing material.

NOTICE

Connector elements!

► The connector elements are not included in the scope of delivery.
● Only use connector elements made of approved materials.
● Observe permissible tightening torque of the bolts.

1. Keep sealing material ready.
2. Carry out preparations for installation (see chapter "Preparing for installation").
3. Ensure clean, undamaged sealing surfaces on the connection flanges.
4. Align flanges carefully before installing them.
5. Position the product centrally between the piping with flanges.
6. Centre the gaskets.
7. Connect the valve flange and the piping flange using appropriate sealing materials and matching bolting.
8. Use all flange holes.
9. Tighten the bolts diagonally.



10. Re-attach or reactivate all safety and protective devices.

10.7 Installation with clamp connections

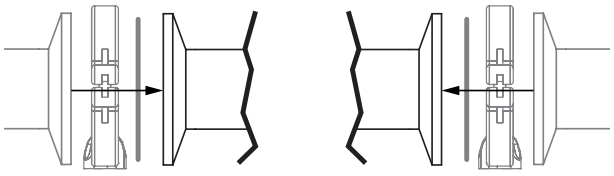


Fig. 5: Clamp connection

NOTICE

Gasket and clamp!

► The gasket and clamps for clamp connections are not included in the scope of delivery.

1. Keep ready gasket and clamp.
2. Carry out preparation for installation (see chapter "Preparing for installation").
3. Insert the corresponding gasket between the body of the product and the pipe connection.
4. Connect the gasket between the body of the product and the pipe connection using clamps.
5. Re-attach or reactivate all safety and protective devices.

11 Commissioning

⚠ WARNING

Corrosive chemicals!

► Risk of caustic burns
● Wear appropriate protective gear.
● Completely drain the plant.

⚠ CAUTION

Leakage!

► Emission of dangerous materials
● Provide for precautionary measures against exceeding the maximum permissible pressure that may be caused by pressure surges (water hammer).

⚠ CAUTION

Use as an end-of-line valve!

► Damage to the GEMÜ product
● When using the GEMÜ product as an end-of-line valve, a mating flange must be fitted.

⚠ CAUTION

Cleaning agent!

► Damage to the GEMÜ product
● The plant operator is responsible for selecting the cleaning material and performing the procedure.

1. Check the tightness and the function of the product (close and reopen the product).
2. Flush the piping system of new plant and following repair work (the product must be fully open).

⇨ Harmful foreign matter has been removed.

⇨ The product is ready for use.

3. Commission the product.
4. Commissioning of actuators in accordance with the enclosed instructions.

12 Operation

The product is manually operated.

13 Troubleshooting

Error	Possible cause	Troubleshooting
Medium escapes at the valve spindle* (under handwheel)	Gland packing faulty	Replace the actuator
The product does not open or does not open fully	Actuator defective	Replace the actuator
The product is leaking downstream (does not close or does not close fully)	Operating pressure too high	Operate the product with operating pressure specified in datasheet
	Foreign matter between the seat seal* and seat	Remove the actuator, remove the foreign matter, check the seat seal for potential damage, replace if required
	Valve body leaking or damaged	Check valve body for damage, replace valve if necessary
	Seat seal* faulty	Check the seat seal check for potential damage, replace the seat seal if required
The product is leaking between the actuator and valve body	Actuator loose	Retighten the bonnet retaining nut*
	Sealing ring* faulty	Check the sealing ring and associated sealing surfaces for potential damage and replace parts if necessary
	Valve body/actuator damaged	Replace the valve body/actuator
Connection between valve body and piping leaking	Incorrect installation	Check installation of valve body in piping
	Threaded connections / unions loose	Tighten threaded connections / unions
	Sealing material faulty	Replace sealing material
Valve body leaking	Valve body leaking or corroded	Check valve body for damage, replace valve body if necessary
Handwheel cannot be turned	Actuator defective	Replace product
	Control function L: The lock nut secures the position of the valve	Loosen the lock nut

* See chapter "Spare parts"

14 Inspection and maintenance

⚠ WARNING

The equipment is subject to pressure!

- ► Risk of severe injury or death
- ● Depressurize the plant or plant component.
- ● Completely drain the plant or plant component.

⚠ CAUTION

Hot plant components!

- ► Burns
- ● Only work on plant that has cooled down.
- ● Wear protective gear.

NOTICE

Use of incorrect spare parts!

- ► Damage to the GEMÜ product
- ► The manufacturer liability and guarantee will be void.
- ● Use only genuine parts from GEMÜ.

NOTICE

Exceptional maintenance work!

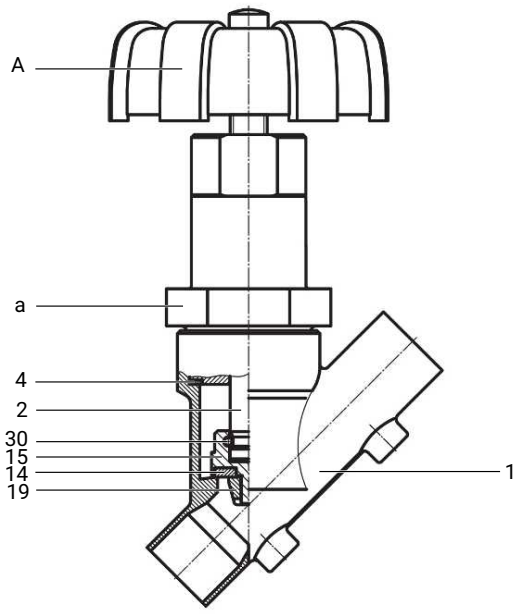
- ► Damage to the GEMÜ product
- ● Any maintenance work and repairs not described in these operating instructions must not be performed without consulting the manufacturer first.

The operator must carry out regular visual examination of the GEMÜ products dependent on the operating conditions and the potential danger in order to prevent leakage and damage.

The product also must be disassembled and checked for wear in the corresponding intervals.

1. Have servicing and maintenance work performed by trained personnel.
2. Wear appropriate protective gear as specified in plant operator's guidelines.
3. Shut off plant or plant component.
4. Secure the plant or plant component against recommissioning.
5. Depressurize the plant or plant component.
6. Actuate GEMÜ products which are always in the same position four times a year.

14.1 Spare parts



Item	Name	Order designation
1	Valve body	K514...
2	Spindle	-
4	Sealing ring	507...SVS...
14	Seat seal	
15	Valve plug	-
19	Retaining washer	-
30	Sealing ring	-
A	Actuator	9507
a	Union nut	-

14.2 Disassembly of the actuator and sealing ring 30

NOTICE

- ► Clean all parts of contamination (do not damage the parts during cleaning) following removal. Check parts for potential damage, replace if necessary (only use genuine parts from GEMÜ).

1. Move the actuator **A** to the open position.
2. Undo the actuator **A** from the valve body **1** using a wrench.
3. Lift the actuator **A** with actuator flange from the valve body flange.
4. Move the actuator **A** to the closed position.
5. Remove the sealing ring **30** from the valve body flange.

14.3 Replacing the seat seal

NOTICE

Important:

► After disassembly, clean all parts of contamination (do not damage the parts during cleaning). Check parts for potential damage, replace if necessary (only use genuine parts from GEMÜ).

1. Disassemble the actuator **A** as described in chapter 14.1, points 1–5.
2. Undo the retaining washer **19** on the spindle **2** (hold the spindle **2** in place using an appropriate tool that will not damage the spindle surface).
3. Remove the seat seal **14**.
4. Clean all parts; do not scratch or damage the parts during cleaning.
5. Insert the new seat seal **14**.
6. Apply appropriate thread locking compound to the thread of the valve plug **15**.
7. Position the retaining washer **19** (hold spindle **2** in place using an appropriate tool that will not damage the spindle surface) and tighten it.
8. Assemble the actuator **A** as described in chapter 14.3, points 1–5.

14.4 Assembling the actuator and sealing ring 30

NOTICE

► Replace the sealing ring **30** each time the actuator is disassembled/assembled.

1. Move the actuator **A** to the open position.
2. Insert the new sealing ring **30** in the valve body flange.
3. Place the actuator **A** with actuator flange on the valve body flange.
4. Screw in the mounting parts hand-tight and tighten the screws with a suitable wrench.
5. Move the actuator **A** to the closed position. With the valve fully assembled, check that it is working correctly and that it is leak-tight.

14.5 Replacing the sealing ring 4

NOTICE

► Replace the sealing ring **4** each time the actuator is disassembled/assembled.

1. Move the actuator **A** to the open position.
2. Undo the union nut **a**.
3. Lift the actuator **A** from the actuator flange.
4. Remove the sealing ring **4** from the actuator flange.
5. Clean all parts; do not scratch or damage the parts during cleaning.
6. Check all parts for potential damage. Replace damaged parts (only use genuine parts from GEMÜ).
7. Insert the new sealing ring **4** in the actuator flange.
8. Place the actuator **A** on the actuator flange so that the control medium connectors are approx. 90° before the end position. Tighten the union nut **a**. This causes the actuator to turn by approx. 90° until it reaches the desired position.
9. Move the actuator **A** to the closed position. With the valve fully assembled, check that it is working correctly and that it is leak-tight.

15 Disassembly

1. Disassemble in reverse order to assembly.
2. Disassemble the product. Observe warning notes and safety information.

16 Disposal

1. Pay attention to adhered residual material and gas diffusion from penetrated media.
2. Dispose of all parts in accordance with the disposal regulations/environmental protection laws.

17 Returns

Legal regulations for the protection of the environment and personnel require that the completed and signed return delivery note is included with the dispatch documents. Returned goods can be processed only when this note is completed. If no return delivery note is included with the product, GEMÜ cannot process credits or repair work but will dispose of the goods at the operator's expense.

1. Clean the product.
2. Request a return delivery note from GEMÜ.
3. Complete the return delivery note.
4. Send the product with a completed return delivery note to GEMÜ.

18 EU Declaration of Conformity

CE Version 1.0

GEMÜ

EU-Konformitätserklärung

EU Declaration of Conformity

Wir, die Firma / We, the company

GEMÜ Gebr. Müller Apparatebau GmbH & Co. KG
Gert-Müller-Platz 1
74635 Kupferzell
Deutschland

erklären hiermit in alleiniger Verantwortung, dass die nachfolgend bezeichneten Produkte den Vorschriften der genannten Richtlinien entspricht.

hereby declare under our sole responsibility that the below-mentioned products complies with the regulations of the mentioned Directives.

Produkt:	GEMÜ 507	**Product:**	GEMÜ 507
Produktname:	Manuell betätigtes Schrägsitzventil	**Product name:**	Manually operated angle seat globe valve

Richtlinien/Verordnungen: / **Directives/Regulations:**

PED 2014/68/EU[1)]

Folgende harmonisierte Normen (oder Teile hieraus) wurden angewandt: / **The following harmonized standards (or parts thereof) have been applied:**

EN 13709:2010

Weitere angewandte Normen: / **Further applied norms:**

AD 2000

[1)] PED 2014/68/EU
Einteilung gemäß Druckgeräterichtlinie 2014/68/EU, Artikel 4 und Anhang II:
Fluidklasse 1 (gasförmig oder flüssig),
Diagramm 6, Kategorie I
Instabile Gase sind ausgeschlossen.
Notifizierte Stelle:
TÜV Rheinland Industrie Service GmbH
Am Grauen Stein 1
51105 Köln
Kennnummer der notifizierten Stelle: 0035
Nr. des QS-Zertifikats: 01 202 926/Q-02 0036
Angewandte(s) Konformitätsbewertungsverfahren: Modul H1
Hinweis für Produkte mit einer Nennweite ≤ DN 25:
Die Produkte werden entwickelt und produziert nach GEMÜ eigenen Verfahrensanweisungen und Qualitätsstandards, welche die Forderungen der ISO 9001 und der ISO 14001 erfüllen. Die Produkte dürfen gemäß Artikel 4, Absatz 3 der Druckgeräterichtlinie 2014/68/EU keine CE-Kennzeichnung tragen.

[1)] PED 2014/68/EU
Classification in accordance with the Pressure Equipment Directive 2014/68/EU, Article 4 and Annex II:
Fluid class 1 (gaseous or liquid),
Diagram 6, Category I
Unstable gases are excluded.
Notified body:
TÜV Rheinland Industrie Service GmbH
Am Grauen Stein 1
51105 Cologne
Identification number of the notified body: 0035
QA certificate number: 01 202 926/Q-02 0036
Applied conformity assessment procedures: Module H1
Note for products with a nominal size ≤ DN 25:
DThe products are developed and manufactured in accordance with GEMÜ's own process instructions and quality standards, which meet the requirements of ISO 9001 and ISO 14001. In accordance with Article 4, Paragraph 3 of the Pressure Equipment Directive 2014/68/EU, the products are not permitted to bear the CE mark.

i.V. M. Barghoorn
Leiter Globale Technik

Ingelfingen, 04.03.2026

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Subject to alteration

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