

GEMÜ 514Z

Pneumatically operated globe valve with two-stage actuator



Features

- In addition to full stroke, a partial stroke can be realized as a second valve position
- Can be individually used. Space consuming piping systems and valve wiring are no longer necessary
- Robust aluminium actuator
- Extensive range of accessories

Description

The GEMÜ 514Z 2/2-way angle seat globe valve has a low-maintenance, two-stage aluminium double-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 also protects the seal against contamination and damage.

Technical specifications

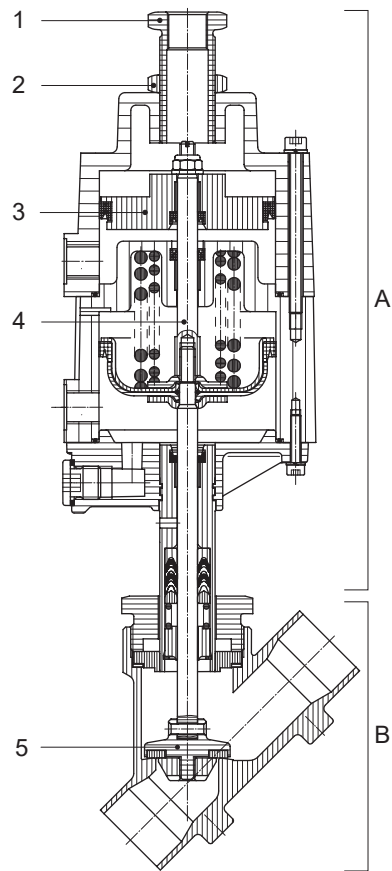
- **Media temperature :** -10 to 210 °C
- **Ambient temperature:** 0 to 130 °C
- **Operating pressure :** 0 to 25 bar
- **Nominal sizes:** DN 15 to 80
- **Body configurations:** 2/2-way body | Angle valve body
- **Connection types:** Flange | Spigot | Threaded connection
- **Connection standards:** ASME | DIN | EN | ISO | SMS
- **Body materials:** 1.4408, cast stainless steel material | 1.4435, investment casting material | CC499K, cast bronze material
- **Seat seal materials:** 1.4404 | PTFE | PTFE, reinforced
- **Conformities:** CRN | EAC | FDA

Technical data depends on the respective configuration



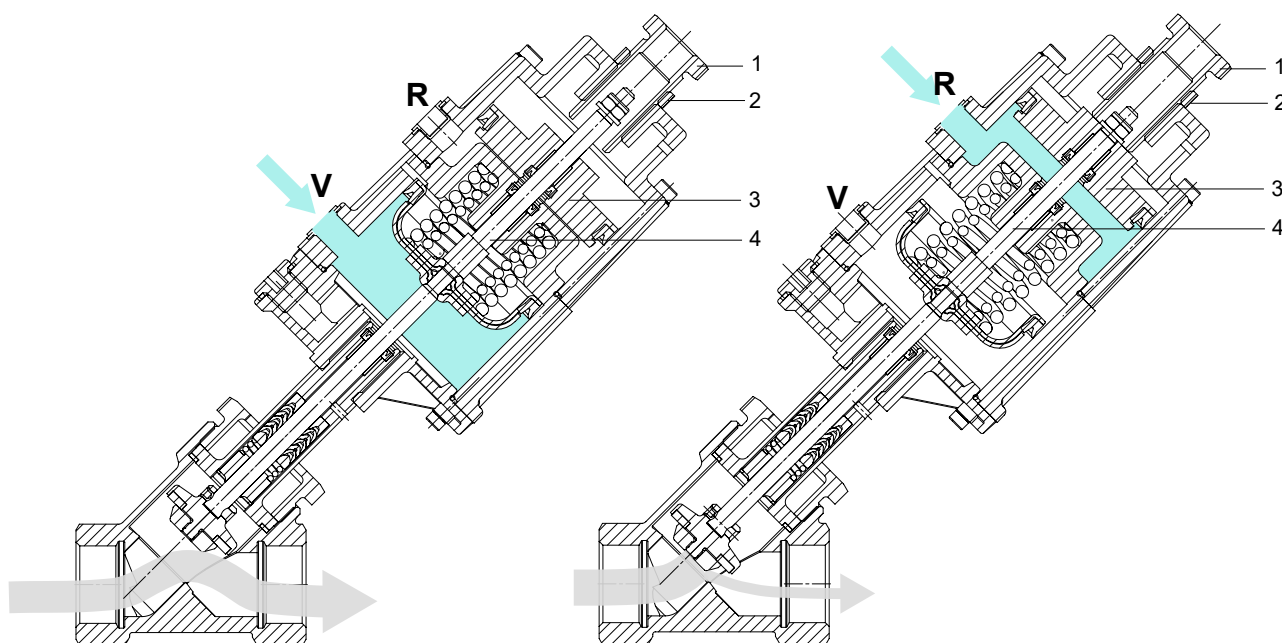
Product description

Construction



Item	Name	Materials
A	Actuator	-
B	Valve body	Cast bronze; 1.4435 investment casting; 1.4408 investment casting
1	Stroke limiter	1.4305
2	Lock nut	1.4305
3	Piston	Aluminium
4	Spindle	1.4305
5	Seat seal	PTFE

Functional description



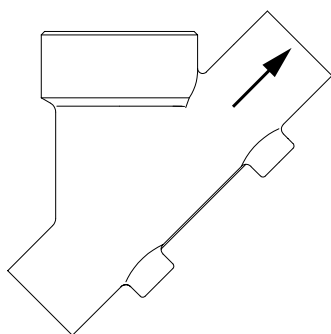
When control pressure (connection V) is applied, the lower actuator piston strokes 100%. The stroke of the upper part of the actuator (connection R), however, can be steplessly limited from 0% to 100% by means of the stroke limiter (item 1) and secured by the lock nut (item 2).

When a stroke limiter is used, the piston (item 3) moves against the stroke limiter (item 1) and flow restriction is possible (connection R).

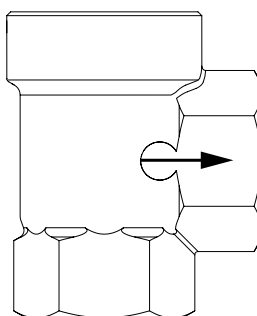
If the lower part of the actuator (connection V) is under control pressure, the valve fully opens, pushing the spindle (item 4) upwards through the upper piston.

Flow direction

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



2/2-way body
under the seat



Angle valve body
under the seat

GEMÜ CONEXO

The interaction of valve components that are equipped with RFID chips and an associated IT infrastructure actively increase process reliability.



Thanks to serialization, every valve and every relevant valve component such as the body, actuator or diaphragm, and even automation components, can be clearly traced and read using the CONEXO pen RFID reader. The CONEXO app, which can be installed on mobile devices, not only facilitates and improves the "installation qualification" process, but also makes the maintenance process much more transparent and easier to document. The app actively guides the maintenance technician through the maintenance schedule and directly provides him with all the information assigned to the valve, such as test reports, testing documentation and maintenance histories. The CONEXO portal acts as a central element, helping to collect, manage and process all data.

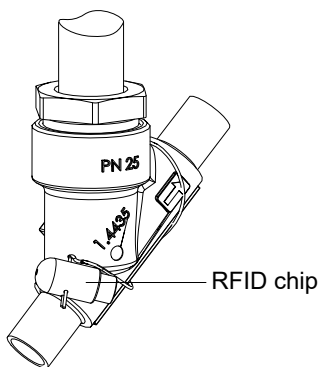
For further information on GEMÜ CONEXO please visit:

www.gemu-group.com/conexo

Ordering

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

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



Availability

Spigot

DN	Connection types code ¹⁾												
	0	16	17			37		59			60		
	Material code ²⁾												
	34	34	34	37	C2	34	37	34	37	C2	34	37	C2
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

1) Connection type

Code 0: Spigot DIN

Code 16: Spigot DIN EN 10357 series B (2014 edition; 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 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 34: 1.4435, investment casting

Code 37: 1.4408, investment casting

Code C2: 1.4435, investment casting

Threaded connection, flange

DN	Threaded connection									Flange	
	Connection types code ¹⁾										
	1			3C	9		3D			13	47
	Material code ²⁾										
	9	37		37	9	37	9	37		34	
DK		EK	DK					EK			
15	X	X	X	X	X	X	X	X	X	X	X
20	X	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	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	-	-	-
80	X	X	-	X	X	X	-	X	-	-	-

DK = 2/2-way body, EK = angle valve body

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

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

Code 47: Flange ANSI Class 150 RF

2) Valve body material

Code 9: CC499K, cast bronze

Code 34: 1.4435, investment casting

Code 37: 1.4408, investment casting

Surface finish

Valve body material 1.4435, investment casting (code C2)

Type of design	Code
Ra ≤ 0.6 µm (25 µinch) for media wetted surfaces, in accordance with ASME BPE SF2 + SF3 mechanically polished internal	1903
Ra ≤ 0.8 µm (30 µinch) for media wetted surfaces, in accordance with DIN 11866 H3, mechanically polished internal	1904
Ra ≤ 0.4 µm (15 µinch) for media wetted surfaces, in accordance with DIN 11866 H4, ASME BPE SF1 mechanically polished internal	1909

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, aluminium piston actuator	514

2 DN	Code
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 Body 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 edition; 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 edition)/DIN 11866 series C	59
Spigot ISO 1127/DIN EN 10357 series C (2014 edition)/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	13
Flange ANSI Class 150 RF	47

5 Valve body material	Code
1.4435, investment casting	34
1.4408, investment casting	37
1.4435, investment casting	C2
CC499K, cast bronze	9

6 Seat seal	Code
PTFE	5
PTFE, glass fibre reinforced	5G
1.4404	10

7 Control function	Code
Normally closed (NC)	1

8 Actuator version	Code
Two-stage actuator, actuator size 1	1Z
Two-stage actuator, actuator size 2	2Z

9 Type of design	Code
Ra ≤ 0.6 µm (25 µinch) for media wetted surfaces, in accordance with ASME BPE SF2 + SF3 mechanically polished internal	1903
Ra ≤ 0.8 µm (30 µinch) for media wetted surfaces, in accordance with DIN 11866 H3, mechanically polished internal	1904
Ra ≤ 0.4 µm (15 µinch) for media wetted surfaces, in accordance with DIN 11866 H4, ASME BPE SF1 mechanically polished internal	1909
For higher operating temperatures	2023
FKM-PTFE spindle seal Actuator components suitable for high ambient temperatures	2017
Spindle seal PTFE-PTFE	2013
Without	

10 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
Without	

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

Order example

Ordering option	Code	Description
1 Type	514	Angle seat globe valve, pneumatically operated, aluminium piston actuator
2 DN	25	DN 25
3 Body configuration	D	2/2-way body
4 Connection type	1	Threaded socket DIN ISO 228
5 Valve body material	9	CC499K, cast bronze
6 Seat seal	5	PTFE
7 Control function	1	Normally closed (NC)
8 Actuator version	1Z	Two-stage actuator, actuator size 1
9 Type of design		Without
10 Special version		Without
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: Standard: -10 to 180 °C
Special version: -20* to 210 °C
only with ordering option Seat seal code 5G or 10 and Design 2023
* dependent on body material

Control medium temperature: max. 60 °C

Ambient temperature: Standard: 0 to 60 °C
Special version: 0 to 130 °C
only with ordering option Type of design 2017

Storage temperature: 0 – 40 °C

Pressure

Operating pressure:

DN	Actuator version 1Z	Actuator version 2Z
	piston ø 70 mm	piston ø 120 mm
15	25.0	-
20	20.0	25.0
25	10.0	25.0
32	7.0	16.0
40	4.5	15.0
50	-	10.0
65	-	7.0
80	-	5.0

Pressures in bar

Pressure rating: PN 25

Pressure/temperature correlation:

Connection types code ¹⁾	Material code ²⁾	Max. allowable operating pressures in bar at temperature in °C					
		RT	100	150	200	250	300
1, 3C, 3D, 9 (bis DN 50)	9	16.0	16.0	16.0	13.5	-	-
1, 9 (ab DN 65)	9	10.0	10.0	10.0	8.5	-	-
1, 9, 17, 37, 60, 63, 3C, 3D	37	25.0	23.8	21.4	18.9	17.5	16.1
0, 16, 17, 37, 59, 60, 65	34	25.0	24.5	22.4	20.3	18.2	16.1
13 (DN 15 - DN 50)	34	25.0	23.6	21.5	19.8	18.6	17.2
47 (DN 15 - DN 50)	34	15.9	13.3	12.0	11.1	10.2	9.7
17, 59, 60	C2	25.0	21.2	19.3	17.9	16.8	15.9

The valves are suitable for temperatures as low as -10 °C

RT = room temperature

All pressures are gauge pressures.

1) Connection type

Code 0: Spigot DIN

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

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

Code 16: Spigot DIN EN 10357 series B (2014 edition; 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 47: Flange ANSI Class 150 RF

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 34: 1.4435, investment casting

Code 37: 1.4408, investment casting

Code 40: 1.4435 (F316L), forged body

Code C2: 1.4435, investment casting

Control pressure:

DN	Actuator version 1Z	Actuator version 2Z
	piston ø 70 mm	piston ø 120 mm
15	5.5 - 10.0	-
20	5.5 - 10.0	4.5 - 8.0
25	5.5 - 10.0	4.5 - 8.0
32	5.5 - 10.0	4.5 - 8.0
40	5.5 - 10.0	4.5 - 8.0
50	-	5.5 - 8.0
65	-	5.5 - 8.0
80	-	5.5 - 8.0

Pressures in bar

Kv values:

DN	Kv values
15	5.4
20	10.0
25	15.2
32	23.0
40	41.0
50	71.0
65	108.0
80	160.0

Kv values in m³/h

Filling volume:

Actuator version	Piston	Filling volume
1Z	Top	0.07 dm³
	Bottom	0.10 dm³
2Z	Top	0.51 dm³
	Bottom	0.60 dm³

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

Piston diameter:

Actuator version	Piston diameter
1Z	70 mm
2Z	120 mm

Product compliance

Pressure Equipment Directive: 2014/68/EU

Machinery Directive: 2006/42/EC

Food: FDA*
1935*

* For contact with food, the following ordering options must be selected:

- Valve body material code 34, 37, C2
- Design code 2013

Mechanical data

Weight:

Actuator

DN	Actuator version 1Z	Actuator version 2Z
15	2.4	-
20	2.6	4.7
25	2.8	5.0
32	3.4	5.6
40	3.7	6.5
50	4.4	7.4
65	-	9.5
80	-	10.6

Weights in kg

Weight:**Valve body**

DN	Spigot	Threaded socket	Threaded spigot	Flange
	Connection types code ¹⁾			
	0, 16, 17, 37, 59, 60	1, 3C, 3D	9	13, 47
15	0.24	0.35	0.31	1.80
20	0.50	0.35	0.50	2.50
25	0.50	0.35	0.65	3.10
32	0.90	0.75	1.00	4.60
40	1.10	0.98	1.30	5.10
50	1.80	1.70	1.80	7.20
65	3.40	3.20	3.40	-
80	4.20	4.10	4.40	-

Weights in kg

1) **Connection type**

Code 0: Spigot DIN

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

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

Code 16: Spigot DIN EN 10357 series B (2014 edition; 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

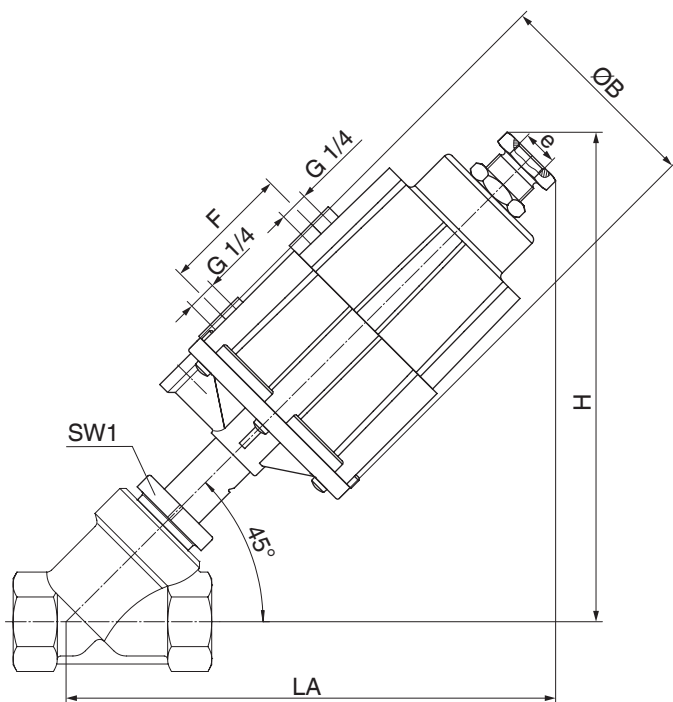
Code 47: Flange ANSI Class 150 RF

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

Dimensions

Actuator



Actuator version 1Z

DN	SW 1	H/LA	Ø B	e	F
15	36	222	100	M 16 x 1	58
20	41	232	100		
25	46	232	100		
32	55	240	100		
40	40	245	100		
50	75	253	100		

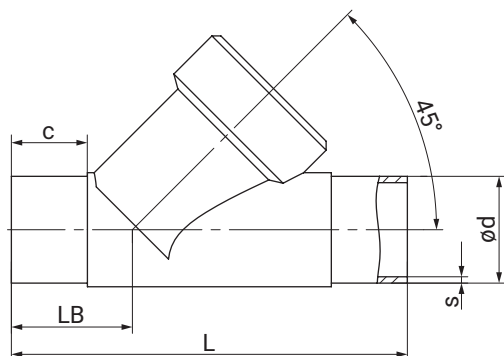
Dimensions in mm

Actuator version 2Z

DN	SW 1	H/LA	Ø B	e	F
20	41	332	168	M 22 x 1,5	121
25	46	332			
32	55	340			
40	60	345			
50	75	353			

Body dimensions

Butt weld spigot, connection types code 0, 16, 17, 37, 59, 60



	Connection type code ¹⁾																			
			0			16			17			37			59			60		
	Material code 34 ²⁾																			
DN	L	LB	c (min)	ød	s	c (min)	ød	s	c (min)	ød	s	c (min)	ød	s	c (min)	ød	s	c (min)	ød	s
15	105.0	35.5	20	18.0	1.5	20	18.0	1.0	20	19.0	1.5	-	-	-	20	12.70	1.65	20	21.3	1.6
20	120.0	39.0	25	22.0	1.5	25	22.0	1.0	25	23.0	1.5	-	-	-	25	19.05	1.65	25	26.9	1.6
25	125.0	38.5	24.5	28.0	1.5	24.5	28.0	1.0	24.5	29.0	1.5	24.5	25.0	1.2	24.5	25.40	1.65	24.5	33.7	2.0
32	155.0	48.0	-	-	-	26	34.0	1.0	27	35.0	1.5	-	-	-	-	-	-	29	42.4	2.0
40	160.0	47.0	24	40.0	1.5	24	40.0	1.0	24	41.0	1.5	24	38.0	1.2	24	38.10	1.65	43.7	48.3	2.0
50	180.0	48.0	29	52.0	1.5	29	52.0	1.0	29	53.0	1.5	29	51.0	1.2	29	50.80	1.65	29	60.3	2.0

Dimensions in mm

1) Connection type

Code 0: Spigot DIN

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

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

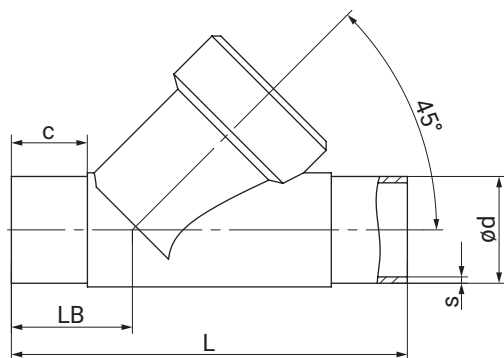
Code 37: Spigot SMS 3008

Code 59: Spigot ASME BPE/DIN EN 10357 series C (from 2022 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 34: 1.4435, investment casting

Butt weld spigot, connection types code 17, 37, 59, 60

DN	Connection type code ¹⁾													
			17			37			59			60		
	Material code 37 ²⁾													
	L	LB	c (min)	ød	s	c (min)	ød	s	c (min)	ød	s	c (min)	ød	s
15	100.0	33.0	18	19.0	1.5	-	-	-	-	-	-	18	21.3	1.6
20	108.0	33.0	18	23.0	1.5	-	-	-	-	-	-	18	26.9	1.6
25	112.0	32.0	18	29.0	1.5	-	-	-	22	-	-	18	33.7	2.0
32	137.0	39.0	18	35.0	1.5	-	-	-	-	-	-	18	42.4	2.0
40	146.0	40.0	19	41.0	1.5	-	-	-	-	-	-	18	48.3	2.0
50	160.0	38.0	20	53.0	1.5	-	-	-	-	-	-	20	60.3	2.0
65	290.0	96.0	52.5	70.0	2.0	58	63.5	1.6	58	63.5	1.65	47	76.1	2.0
80	310.0	95.0	50	85.0	2.0	58	76.1	1.6	58	76.0	1.65	46.5	88.9	2.3

Dimensions in mm

1) Connection type

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

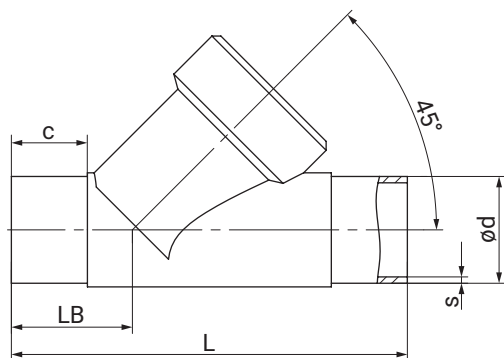
Code 37: Spigot SMS 3008

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 37: 1.4408, investment casting

Butt weld spigot, connection types code 17, 59, 60

DN	Connection type code ¹⁾										
			17			59			60		
	Material code C2 ²⁾										
	L	LB	c (min)	ød	s	c (min)	ød	s	c (min)	ød	s
15	105.0	35.5	20	19.0	1.5	15	12.70	1.65	20	21.3	1.6
20	120.0	39.0	25	23.0	1.5	25	19.05	1.65	25	26.9	1.6
25	125.0	39.5	24	29.0	1.5	24	25.40	1.65	24	33.7	2.0
32	155.0	48.0	27	35.0	1.5	-	-	-	26.1	42.4	2.0
40	160.0	47.0	24	41.0	1.5	23	38.10	1.65	28.9	48.3	2.0
50	180.0	48.0	28.23	53.0	1.5	28.23	50.80	1.65	48	60.3	2.0
65	290.0	96.0	52.5	70.0	2.0	58	63.50	1.65	52.5	76.1	2.0
80	310.0	95.0	50.2	85.0	2.0	58	76.20	1.65	46.82	88.9	2.3

Dimensions in mm

1) Connection type

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

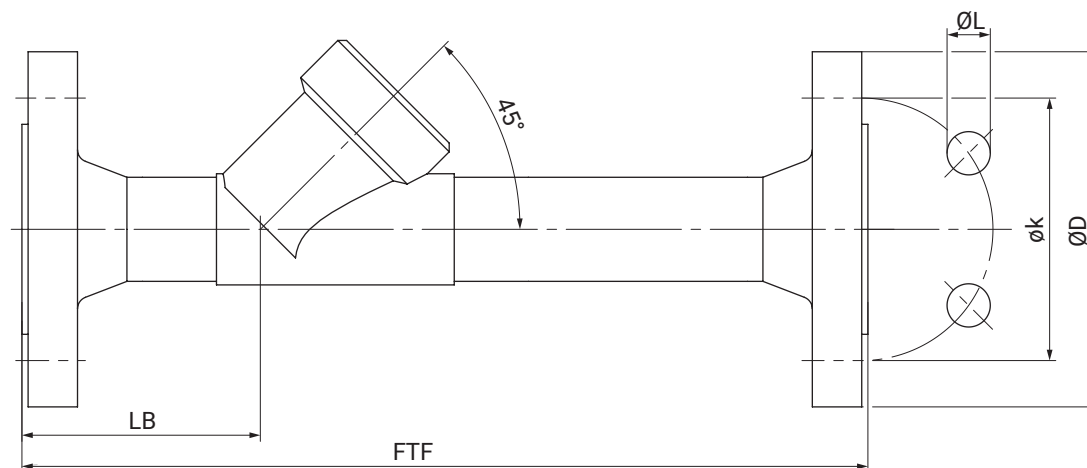
Code 59: Spigot ASME BPE/DIN EN 10357 series C (from 2022 edition)/DIN 11866 series C

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

Flange, connection types code 13, 47



DN	Connection types code ¹⁾									
	13, 47		13				47			
	Material code 34 ²⁾									
DN	FTF	LB	ø D	ø L	ø k	n	ø D	ø L	ø k	n
15	210.0	72.0	95.0	14.0	65.0	4	89.0	15.7	60.5	4
20	280.0	78.0	105.0	14.0	75.0	4	98.6	15.7	69.8	4
25	280.0	77.0	115.0	14.0	85.0	4	108.0	15.7	79.2	4
32	310.0	89.0	140.0	18.0	100.0	4	117.3	15.7	88.9	4
40	320.0	91.0	150.0	18.0	110.0	4	127.0	15.7	98.6	4
50	330.0	95.0	165.0	18.0	125.0	4	152.4	19.1	120.7	4

Dimensions in mm

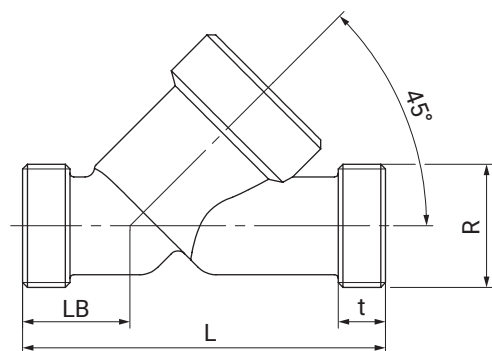
1) Connection type

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

Threaded spigot, connection types code 9

DN	Connection types code 9 ¹⁾			
	Material code 34 ²⁾			
	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

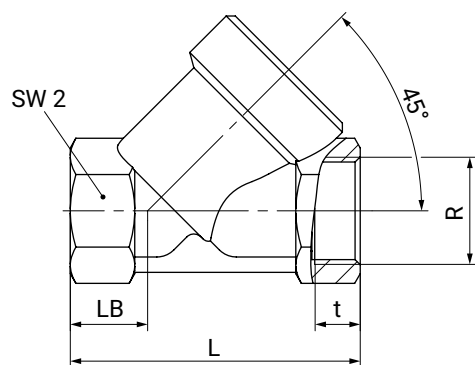
Dimensions in mm

1) Connection type

Code 9: Threaded spigot DIN ISO 228

2) Valve body material

Code 34: 1.4435, investment casting

Threaded socket DIN, connection types code 1

DN	Connection types code 1 ¹⁾									
	Material code ²⁾									
	9					37				
	L	LB	SW2	R	t	L	LB	SW2	R	t
15	65.0	16.5	27	G 1/2	15.0	65.0	16.5	27	G 1/2	15.0
20	75.0	17.5	32	G 3/4	16.3	75.0	17.5	32	G 3/4	16.3
25	90.0	24.0	41	G 1	19.1	90.0	24.0	41	G 1	19.1
32	110.0	33.0	50	G 1¼	21.4	110.0	33.0	50	G 1¼	21.4
40	120.0	30.0	55	G 1½	21.4	120.0	30.0	55	G 1½	21.4
50	150.0	40.0	70	G 2	25.7	150.0	40.0	70	G 2	25.7
65	190.0	46.0	85	G 2½	30.2	190.0	46.0	85	G 2½	30.2
80	220.0	50.0	100	G 3	33.3	220.0	50.0	100	G 3	33.3

Dimensions in mm

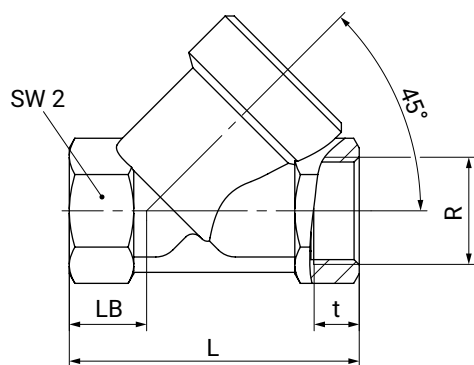
1) Connection type

Code 1: Threaded socket DIN ISO 228

2) Valve body material

Code 9: CC499K, cast bronze

Code 37: 1.4408, investment casting

Threaded socket NPT, connection types code 3C, 3D

	Connection types code ¹⁾									
	3C					3D				
	Material code ²⁾									
	37					9, 37				
DN	L	LB	SW2	R	t	L	LB	SW2	R	t
15	65.0	16.5	27	Rc 1/2	15.0	65.0	16.5	27	1/2" NPT	13.6
20	75.0	17.5	32	Rc 3/4	16.3	75.0	17.5	32	3/4" NPT	14.1
25	90.0	24.0	41	Rc 1	19.1	90.0	24.0	41	1" NPT	17.0
32	110.0	33.0	50	Rc 1¼	21.4	110.0	33.0	50	1¼" NPT	17.5
40	120.0	30.0	55	Rc 1½	21.4	120.0	30.0	55	1½" NPT	17.3
50	150.0	40.0	70	Rc 2	25.7	150.0	40.0	70	2" NPT	17.8
65	190.0	46.0	85	Rc 2½	30.2	190.0	46.0	85	2½" NPT	23.7
80	220.0	50.0	100	Rc 3	33.3	220.0	50.0	100	3" NPT	25.8

Dimensions in mm

1) Connection type

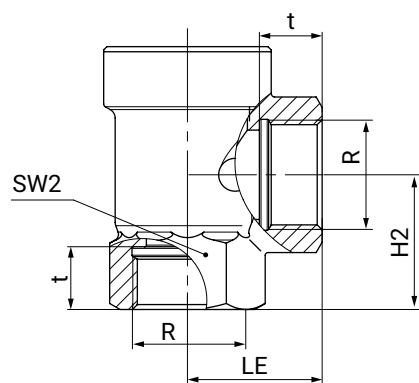
Code 3C: Threaded socket Rc ISO 7-1, EN 10226-1, JIS B 0203, BS 21, end-to-end dimension ETE DIN 3202-4 series M8

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, connection types code 1, 3D, angle valve body



DN	Connection types code ¹⁾									
	1					3D				
	Material code 37 ²⁾									
DN	SW2	LE	H2	R	t	SW2	LE	H2	R	t
15	27	30.0	30.0	G 1/2	15.0	27	30.0	30.0	1/2" NPT	13.6
20	32	35.0	37.5	G 3/4	16.3	32	35.0	37.5	3/4 " NPT	14.1
25	41	41.0	41.0	G 1	19.1	41	41.0	41.0	1" NPT	17.0
32	50	50.0	48.0	G 1¼	21.4	50	50.0	48.0	1¼" NPT	17.5
40	55	50.0	55.0	G 1½	21.4	55	50.0	55.0	1½" NPT	17.3
50	70	60.0	62.0	G 2	25.7	70	60.0	62.0	2" NPT	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



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