GEMÜ 554

Pneumatically operated angle seat globe valve



Features

- Simple and fast commissioning
- High flow rates and compact design
- Valve and positioner are optimally adapted to each other
- Optional for food contact according to Regulation (EC) No. 1935/2004
- Suitable for vacuum up to 20 mbar (a)

Description

The GEMÜ 554 2/2-way angle seat globe control valve has a plastic piston actuator and is pneumatically operated. The valve is designed for demanding flow control applications. It can be paired with positioners or process controllers dependent on the control requirements. The valve spindle is sealed by a self-adjusting gland packing providing low-maintenance and reliable valve spindle sealing even after a long service life. A wiper ring fitted in front of the gland packing protects the seal against contamination and damage.

Technical specifications

- **Media temperature :** -10 to 180 °C
- **Ambient temperature:** 0 to 60 °C
- **Operating pressure :** 0 to 25 bar
- **Nominal sizes:** DN 6 to 80
- **Body configurations:** 2/2-way body I Angle valve body
- **Connection types:** Clamp I Flange I Spigot I Threaded connection
- **Connection standards:** ANSI I ASME I BS I DIN I EN I ISO I NPT I SMS
- **Body materials:** 1.4408, investment casting material I 1.4435 (316L), forged material I 1.4435, investment casting material I CC499K, cast bronze material
- **Seat seal materials:** NBR I PFA I PTFE I PTFE, reinforced
- **Conformities:** ATEX I CRN I EAC I FDA I Oxygen I Reg. (EU) No. 10/2011 I Regulation (EC) No. 1935/2004 I TA Luft (German Clean Air Act) I USP

Technical data depends on the respective configuration

further information
webcode: GW-554_Regel

Comparison of positioner functions / features

			
	GEMÜ 1434 µPos	**GEMÜ 1435 ePos**	**GEMÜ 1436 cPos**
Controller type			
Positioner	●	●	-
Positioners and process controllers	-	-	●
Ambient temperature	0 to 60 °C	-20 to 60 °C	0 to 60 °C
Supply voltage			
24 V DC	●	●	●
Flow rate	15 Nl/min	50 Nl/min 90 Nl/min	100 Nl/min 172 Nl/min 84 Nl/min
Measuring range			
Max. 30 mm, linear	●	●	●
Max. 50 mm, linear	-	●	●
Max. 75 mm, linear	-	●	●
Max. 90°, radial	-	●	●
Electrical connection type			
M12 cable gland	-	●	-
M12 connector	●	●	●
Programmable outputs			
No	●	-	-
Yes	-	●	●
Input option			
No	●	-	-
Yes	-	●	●
Conformity			
EAC	●	●	●

Product description

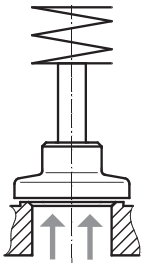
Construction



Item	Name	Materials
1	GEMÜ 1434 positioner	
2	Piston actuator	Plastic
3	Valve body	1.4408, investment casting 1.4435 (ASTM A 351 CF3M 316L), investment casting 1.4435 (316 L), forged body 1.4435, investment casting (equivalent to 316L) CC499K, cast bronze

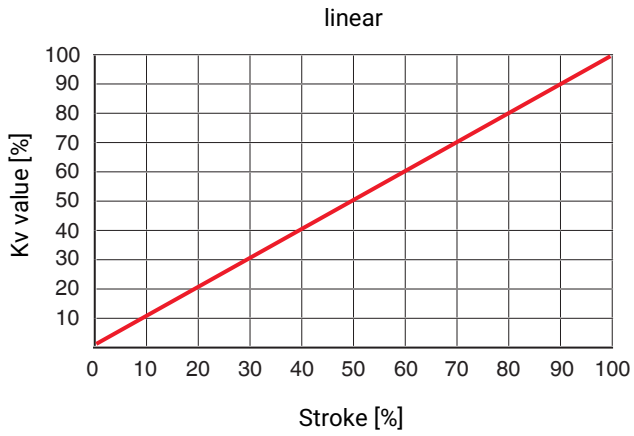
Flow direction

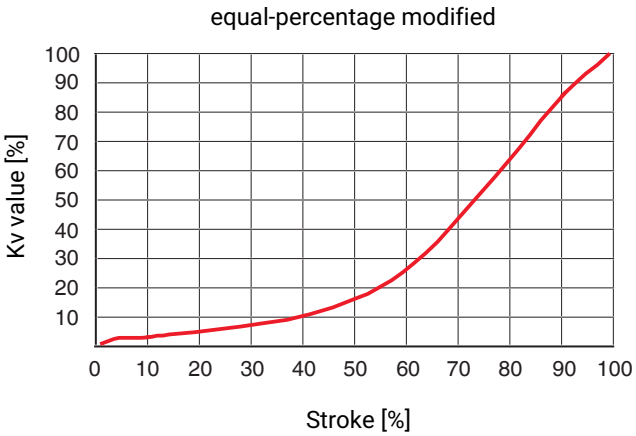
The flow direction is indicated by an arrow on the valve body.



Flow under the seat

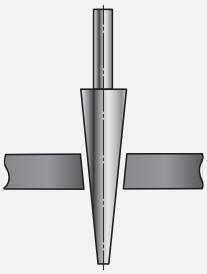
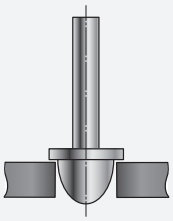
Kv value diagram





The diagram shows the approximative curve of the Kv value characteristic. The characteristic may deviate depending on valve body, nominal size, regulating cone and valve stroke.

Regulating needle / Regulating cone

Regulating needle	Regulating cone
	
Regulating needle: RAxxx – RCxxx (reduced valve seat)	Regulating cone: DN 15 - 50

GEMÜ CONEXO

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



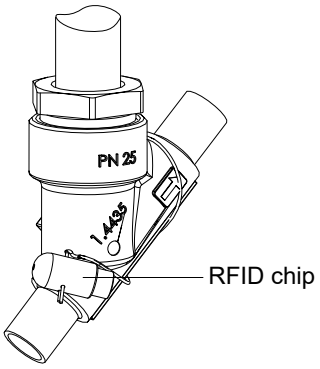
Thanks to serialization, every valve and every relevant valve component such as the body, actuator or diaphragm, and even automation components, can be clearly traced and read using the CONEXO pen RFID reader. The CONEXO app, which can be installed on mobile devices, not only facilitates and improves 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.



Availabilities

Actuator assignment

DN	Actuator size (code)		
	0	1	2
	Piston Ø [mm]		
	50,0	70,0	120,0
15	X	X	-
20	X	X	X
25	X	X	X
32	-	X	X
40	-	X	X
50	-	X	X

Availability of valve bodies

Spigot

DN	Connection type code [1]										
	0	16	17			37	59		60		
	Material code [2]										
	34	34	34	37	C2	34	34	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

X = Standard

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

DN	Connection type code [1]						
	1		3C	3D		9	
	Material code [2]						
	9	37	37	9	37	9	37
	Body configuration code D [3]						
15	X	X	X	X	X	X	X
20	X	X	X	X	X	X	X
25	X	X	X	X	X	X	X
32	X	X	X	X	X	-	X
40	X	X	X	X	X	X	X
50	X	X	X	X	X	X	X

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

X = Standard

1) **Connection type**
Code 1: Threaded socket DIN ISO 228
Code 3C: Threaded socket Rc ISO 7-1, EN 10226-2, JIS B 0203, BS 21, end-to-end dimension ETE DIN 3202-4 series M8
Code 3D: Threaded socket NPT, end-to-end dimension ETE DIN 3202-4 series M8
Code 9: Threaded spigot DIN ISO 228

2) **Valve body material**
Code 9: CC499K, cast bronze
Code 37: 1.4408, investment casting

3) **Body configuration**
Code D: 2/2-way body
Code E: Angle valve body

Flange

DN	Connection type code [1]	
	13	47
	Material code [2]	
	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 13: Flange EN 1092, PN 25, form B
Code 47: Flange ANSI Class 150 RF

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

Clamp

DN	Connection type code [1]		
	82	86	88
	Material code 34 [2]		
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 34: 1.4435, investment casting

Availabilities - Type of design

Type of design	
For surface finish (code 1903, 1904, 1909) see order data	Valve body material (code C2)
For contact with food, the product must be ordered with the following order options (code 2013)	Seat seal (code 5, 5G, 10) valve body material (code 34, 37, C2)

Order data

The order data provide an overview of standard configurations.

Please check the availability before ordering. Other configurations available on request.

Order codes

1 Type	Code
Angle seat globe valve, pneumatically operated, plastic piston actuator	554

2 DN	Code
DN 15	15
DN 20	20
DN 25	25
DN 32	32
DN 40	40
DN 50	50

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
Clamp	
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
Investment casting material	
1.4435, investment casting	34
1.4408, investment casting	37
1.4435, investment casting	C2
Note: A surface finish from the order code table "Type of design"" must be specified for valve body material C2.	
Cast bronze	
CC499K, cast bronze	9

6 Seat seal	Code
PTFE	5
1.4404	10
PTFE, glass fibre reinforced	5G
Note: Code 10, steel (standard up to Kv value 1.00 m³/h) R-No. on request	

7 Control function	Code
Normally closed (NC)	1
Double acting (DA)	3
Double acting and normally open	8
Note: Code 3 and 8, R-No. on request	

8 Actuator version	Code
Actuator size 0	0
Actuator size 1	1
Actuator size 2	2

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 + 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
Spindle seal PTFE-PTFE	2013

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

Order example

Ordering option	Code	Description
1 Type	554	Angle seat globe valve, pneumatically operated, plastic piston actuator
2 DN	25	DN 25
3 Body configuration	D	2/2-way body
4 Connection type	9	Threaded spigot DIN ISO 228
5 Valve body material	37	1.4408, investment casting
6 Seat seal	5	PTFE
7 Control function	1	Normally closed (NC)
8 Actuator version	1	Actuator size 1
9 Regulating cone	R....	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.
10 Type of design	1904	Ra ≤ 0.8 µm (30 µinch) for media wetted surfaces, in accordance with DIN 11866 H3, mechanically polished internal
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.
Max. permissible viscosity:	600 mm²/s Other versions for lower / higher temperatures and higher viscosities on request.
Control medium:	Inert gases, max. 60 °C

Temperature

Media temperature:	-10 — 180 °C
Ambient temperature:	0 — 60 °C
Storage temperature:	0 — 40 °C
Control medium temperature:	max. 60 °C

Pressure

Control valve:

All connection types
valve body material 1.4435 (code 34, C2), 1.4408 (code 37)

DN	Kv value [m³/h]	Operating pressure [bar]	Actuator size	Regulating cone number	
				linear	equal-percentage (mod.)
15	0.1*	25.0	**1**	**RA201**	**RA401**
	0.16*	25.0	**1**	**RB201**	**RA402**
	0.25*	25.0	**1**	**RB202**	**RB401**
	0.4*	25.0	**1**	**RB203**	**RB402**
	0.63*	25.0	**1**	**RC201**	**RC401**
	1.0*	25.0	**1**	**RC202**	**RC402**
	1.6	25.0	**1**	**RD201**	**RD401**
	2.5**	25.0	**1**	**RE201**	**RE401**
20	1.6	25.0	**1**	**RD202**	**RD402**
	2.5	25.0	**1**	**RE202**	**RE402**
	4.0	25.0	**1**	**RF201**	**RF401**
	6.3**	25.0	**1**	**RG201**	**RG401**
25	2.5	25.0	**1**	**RE203**	**RE403**
	4.0	25.0	**1**	**RF202**	**RF402**
	6.3	25.0	**1**	**RG202**	**RG402**
	10.0**	15.0	**1**	**RH201**	**RH401**
32	4.0	25.0	**1**	**RF203**	**RF403**
	6.3	25.0	**1**	**RG203**	**RG403**
	10.0	16.0	**1**	**RH202**	**RH402**
	16.0	11.0	**1**	**RJ201**	**RJ401**
40	6.3	25.0	**1**	**RG204**	**RG404**
	10.0	18.0	**1**	**RH203**	**RH403**
	16.0	11.0	**1**	**RJ202**	**RJ402**
	25.0	18.0	**2**	**RK201**	**RK401**
50	10.0	18.0	**1**	**RH204**	**RH404**
	16.0	12.0	**1**	**RJ203**	**RJ403**
	25.0	24.0	**2**	**RK202**	**RK402**
	40.0	15.0	**2**	**RM201**	**RM401**

Note: Angle seat valve bodies with valve body material code C2 and reduced seat have a surface roughness of Ra ≤ 1.2 µm due to the reduction in the seat area.

*metal seated

**not for connection code 37, 59, 80, 88

Control valve:

Not for connection code 37, 59, 88
valve body material RG 5 (code 9), 1.4408 (code 37), 1.4435 (code 34, C2)

DN	Kv value [m³/h]	Operating pressure [bar]	Actuator size	Regulating cone number	
				linear	equal-percentage (mod.)
15	5.0	12.0	**0**	**RS001**	**RS011**
		25.0	**1**	**RS000**	**RS010**
20	10.0	6.0	**0**	**RS002**	**RS012**
		20.0	**1**	**RS003**	**RS013**
25	15.0	10.0	**1**	**RS004**	**RS014**
32	24.0	7.0	**1**	**RS080**	**RS090**
		20.0	**2**	**RS005**	**RS015**
40	38.0	4.5	**1**	**RS081**	**RS091**
		12.0	**2**	**RS006**	**RS016**
50	50.0	3.0	**1**	**RS082**	**RS092**
	60.0	10.0	**2**	**RS007**	**RS017**

Connection types connection code 37, 59, 88
valve body material 1.4435 (code 34, C2)

DN	Kv value [m³/h]	Operating pressure [bar]	Actuator size	Regulating cone number	
				linear	equal-percentage (mod.)
15	2.7	12.0	**0**	**RS051**	**RS041**
		25.0	**1**	**RS050**	**RS040**
20	6.3	6.0	**0**	**RS052**	**RS042**
		20.0	**1**	**RS053**	**RS043**
25	13.3	10.0	**1**	**RS054**	**RS044**
40	35.6	4.5	**1**	**RS078**	**RS048**
		12.0	**2**	**RS056**	**RS046**
50	50.0	3.0	**1**	**RS079**	**RS049**
	58.0	10.0	**2**	**RS057**	**RS047**

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, 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, 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 50 – 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	-	-	-
47 (DN 15 - 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

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

Leakage rate:

Control valve

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

Filling volume:

Actuator 0, 3: 0.05 dm³
Actuator 1, 4: 0.125 dm³
Actuator 2: 0.625 dm³

Control pressure:

Actuator version code	Control pressure
0	4.8 - 7.0
1	5.5 - 7.0
2 (DN 20 – 40)	4.0 - 7.0
2 (DN 50)	5.0 - 7.0

All pressures are gauge pressures.

Product compliance

Machinery Directive: 2006/42/EC

Pressure Equipment Directive: 2014/68/EU

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

Approvals: FDA*
* depending on version and/or operating parameters

Mechanical data

Weight:

Valve body

DN	Spigot	Threaded socket	Threaded spigot	Flange	Clamp
	Connection type code				
	0, 16, 17, 37, 59, 60	1, 3C, 3D	9	10, 13, 47	82, 86, 88
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

Weights in kg

Total weight

DN	Actuator size (code)		
	0	1	2
15	0.9	1.4	-
20	1.1	1.6	-
25	1.3	1.8	-
32	-	2.4	5.1
40	-	2.7	6.0
50	-	3.4	6.9

Weights in kg

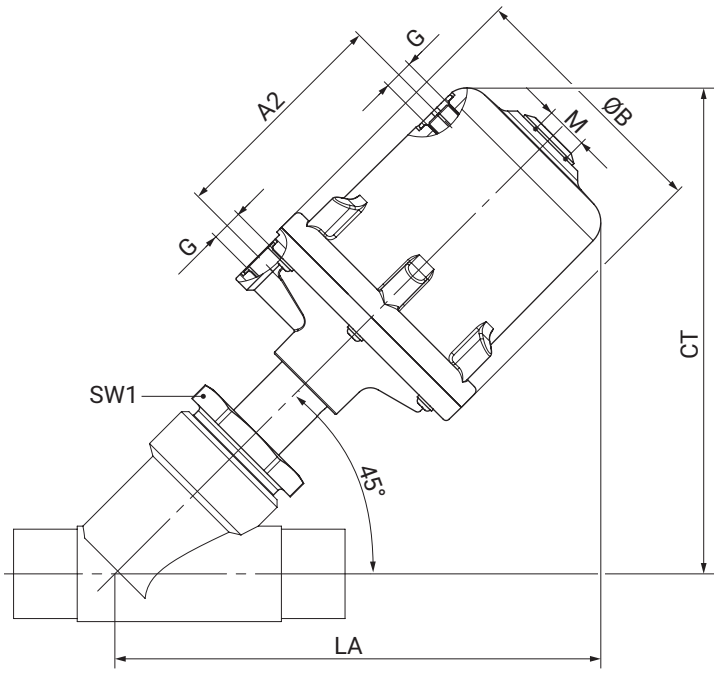
Technical data - Positioners

For the technical data and order data of the positioners, please refer to the GEMÜ 1434, 1435 and 1436 datasheets.
Please also note the table on page 2.

Dimensions without positioner

Actuator/installation dimensions

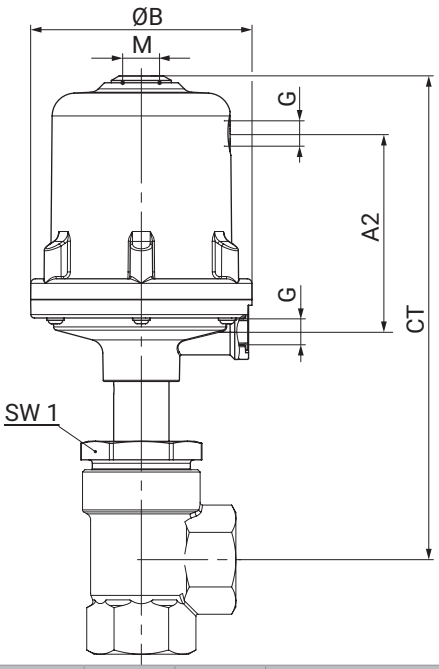
2/2-way body (code D)



DN	SW1 metric	G	Actuator size											
			0				1				2			
			A2	ØB	CT/LA	M	A2	ØB	CT/LA	M	A2	ØB	CT/LA	M
15	36.0	G 1/4	70.0	72.0	157.0	M16x1	86.0	96.0	184.0	M16x1	-	-	-	-
20	41.0	G 1/4	70.0	72.0	167.0	M16x1	86.0	96.0	194.0	M16x1	149.0	168.0	281.0	M22x1.5
25	46.0	G 1/4	70.0	72.0	167.0	M16x1	86.0	96.0	194.0	M16x1	149.0	168.0	281.0	M22x1.5
32	55.0	G 1/4	-	-	-	-	86.0	96.0	202.0	M16x1	149.0	168.0	289.0	M22x1.5
40	60.0	G 1/4	-	-	-	-	86.0	96.0	207.0	M16x1	149.0	168.0	294.0	M22x1.5
50	75.0	G 1/4	-	-	-	-	86.0	96.0	215.0	M16x1	149.0	168.0	302.0	M22x1.5

Dimensions in mm

Angle valve body (code E)



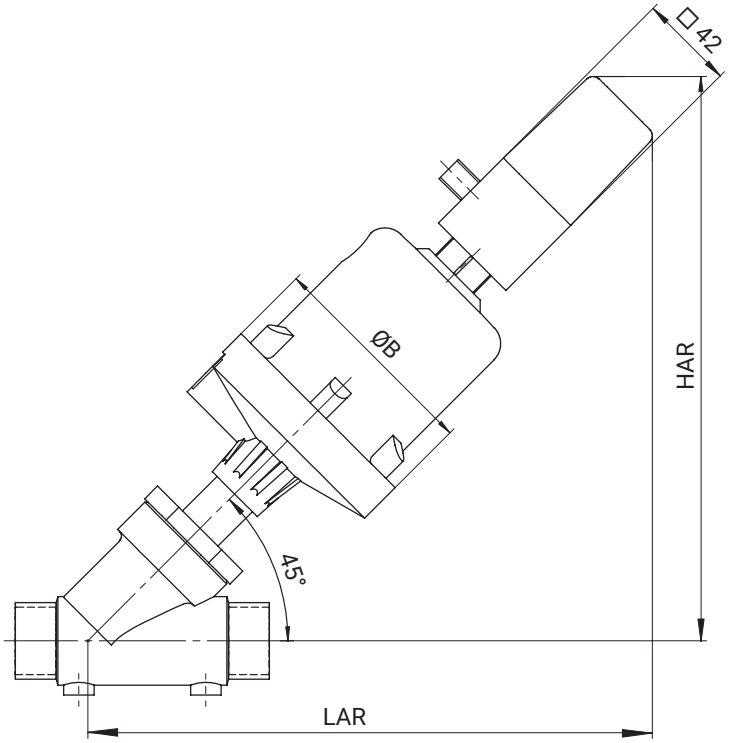
DN	SW1 metric	G	Actuator size											
			0				1				2			
			A2	ØB	CT	M	A2	ØB	CT	M	A2	ØB	CT	M
15	36.0	G 1/4	70.0	72.0	178.0	M16x1	86.0	96.0	206.0	M16x1	-	-	-	-
20	41.0	G 1/4	70.0	72.0	181.0	M16x1	86.0	96.0	209.0	M16x1	149.0	168.0	306.0	M22x1.5
25	46.0	G 1/4	70.0	72.0	185.0	M16x1	86.0	96.0	213.0	M16x1	149.0	168.0	310.0	M22x1.5
32	55.0	G 1/4	-	-	-	-	86.0	96.0	216.0	M16x1	149.0	168.0	313.0	M22x1.5
40	60.0	G 1/4	-	-	-	-	86.0	96.0	221.0	M16x1	149.0	168.0	316.0	M22x1.5
50	75.0	G 1/4	-	-	-	-	86.0	96.0	228.0	M16x1	149.0	168.0	325.0	M22x1.5

Dimensions in mm

Dimensions with positioner

Valve with 2/2-way body

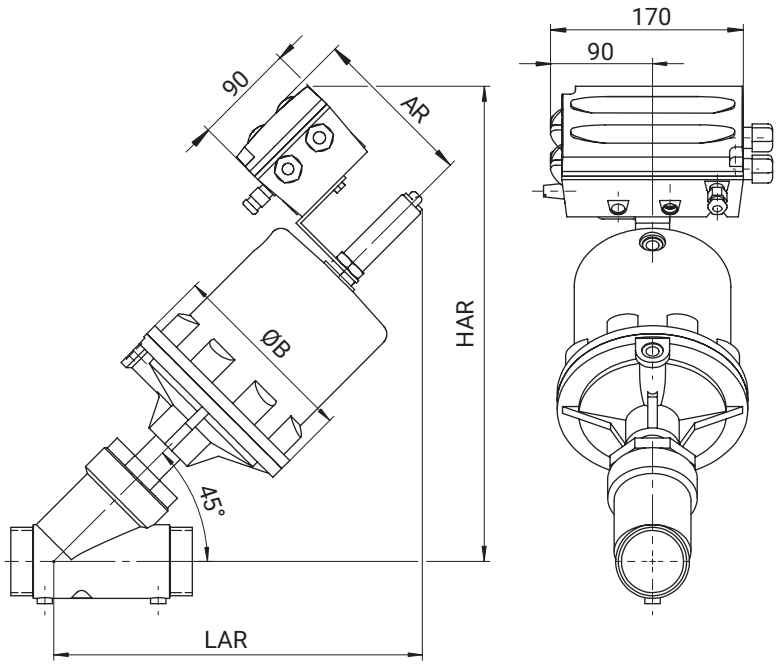
GEMÜ 554 with 1434 µPos



DN	Actuator size	Control function	ØB	LAR / HAR
15	**0**	**1**	72.0	225.0
	1	**1**	96.0	245.0
20	**0**	**1**	72.0	235.0
	1	**1**	96.0	255.0
25	**1**	**1**	96.0	255.0
32	**1**	**1**	96.0	263.0
40	**1**	**1**	96.0	269.0
50	**1**	**1**	96.0	276.0

Dimensions in mm

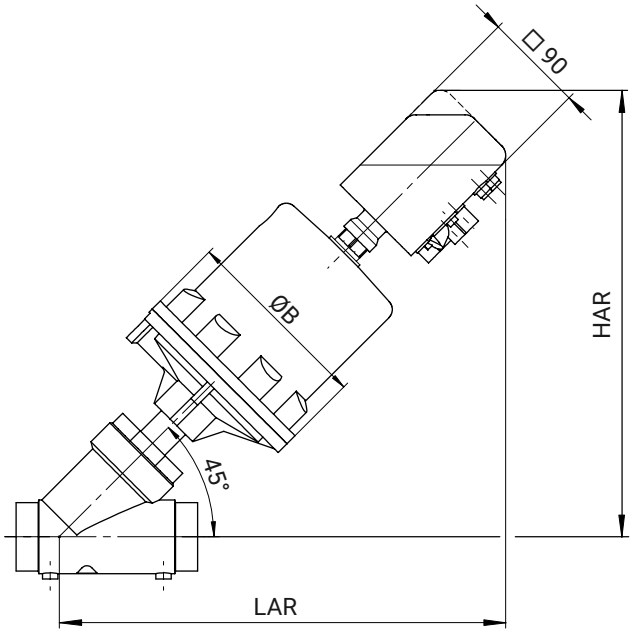
GEMÜ 554 with 1435 ePos



DN	Actuator size	Control function	ØB	LAR
15	**0**	**1**	72.0	189.0
	1	**1**	96.0	208.0
20	**0**	**1**	72.0	198.0
	1	**1**	96.0	218.0
	2	**1**	168.0	304.0
		3, 8	168.0	318.0
25	**1**	**1**	96.0	218.0
32	**1**	**1**	96.0	226.0
	2	**1**	168.0	312.0
		3, 8	168.0	325.0
40	**1**	**1**	96.0	232.0
	2	**1**	168.0	318.0
		3, 8	168.0	331.0
50	**1**	**1**	96.0	239.0
	2	**1**	168.0	326.0
		3, 8	168.0	339.0

Dimensions in mm

GEMÜ 554 with 1436 cPos

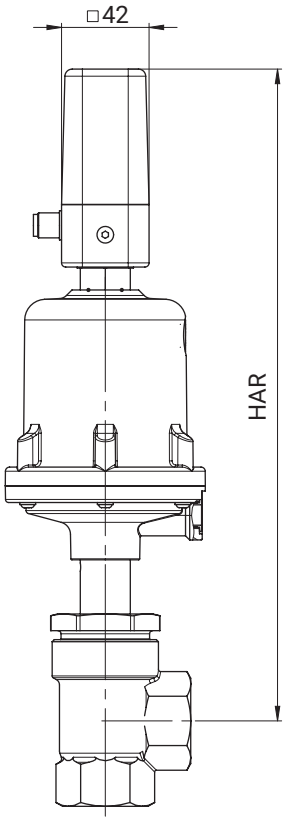


DN	Actuator size	Control function	ØB	LAR / HAR
15	**0**	**1, 3, 8**	72.0	279.0
	1	**1**	96.0	282.0
		3, 8	96.0	299.0
20	**0**	**1, 3, 8**	72.0	289.0
	1	**1**	96.0	292.0
		3, 8	96.0	309.0
25	**1**	**1**	96.0	292.0
		3, 8	96.0	309.0
32	**1**	**1**	96.0	300.0
		3, 8	96.0	317.0
	2	**1**	168.0	386.0
		3, 8	168.0	399.0
40	**1**	**1**	96.0	306.0
		3, 8	96.0	322.0
	2	**1**	168.0	392.0
		3, 8	168.0	405.0
50	**1**	**1**	96.0	313.0
		3, 8	96.0	330.0
	2	**1**	168.0	400.0
		3, 8	168.0	413.0

Dimensions in mm

Valve with angle valve body

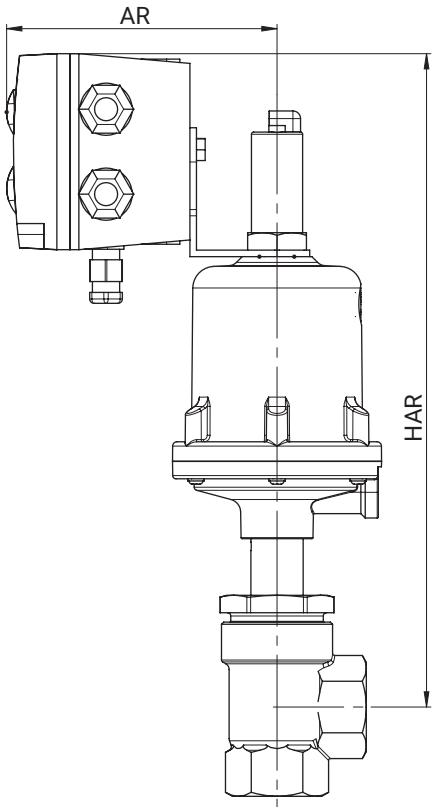
GEMÜ 554 with 1434 µPos



DN	Actuator size	Control function	HAR
15	**0**	**1**	278.0
	1	**1**	306.0
20	**0**	**1**	281.0
	1	**1**	309.0
25	**1**	**1**	313.0
32	**1**	**1**	316.0
40	**1**	**1**	321.0
50	**1**	**1**	328.0

Dimensions in mm

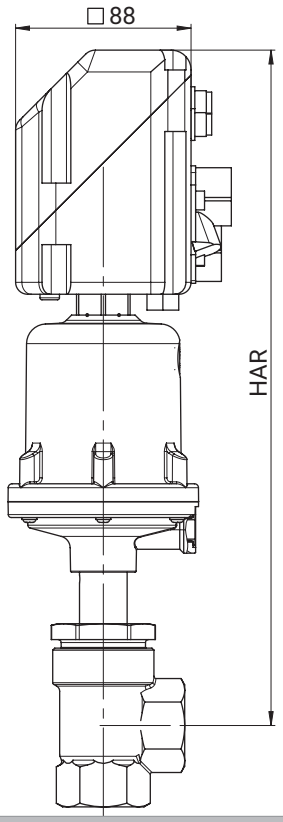
GEMÜ 554 with 1435 ePos



DN	Actuator size	Control function	HAR	AR
15	**0**	**1**	262.0	118.0
	1	**1**	290.0	118.0
20	**0**	**1**	265.0	118.0
	1	**1**	293.0	118.0
	2	**1**	393.0	138.0
		3, 8	412.0	138.0
25	**1**	**1**	297.0	118.0
32	**1**	**1**	300.0	118.0
	2	**1**	400.0	138.0
		3, 8	419.0	138.0
40	**1**	**1**	305.0	118.0
	2	**1**	405.0	138.0
		3, 8	424.0	138.0
50	**1**	**1**	312.0	118.0
	2	**1**	412.0	138.0
		3, 8	431.0	138.0

Dimensions in mm

GEMÜ 554 with 1436 cPos

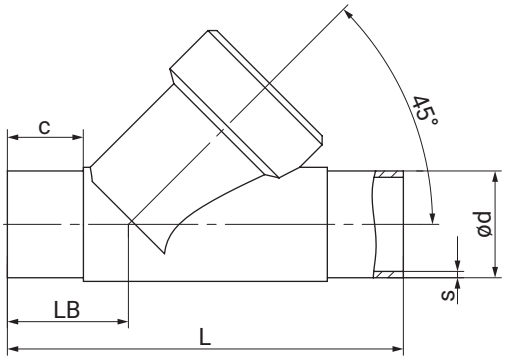


DN	Actuator size	Control function	HAR
15	**0**	**1, 3, 8**	321.0
	1	**1**	325.0
		3, 8	349.0
20	**0**	**1, 3, 8**	324.0
	1	**1**	328.0
		3, 8	352.0
25	**1**	**1**	332.0
		3, 8	356.0
32	**1**	**1**	335.0
		3, 8	359.0
	2	**1**	435.0
		3, 8	454.0
40	**1**	**1**	340.0
		3, 8	364.0
	2	**1**	440.0
		3, 8	459.0
50	**1**	**1**	347.0
		3, 8	371.0
	2	**1**	447.0
		3, 8	466.0

Dimensions in mm

Body dimensions

Spigot DIN/EN/ISO/ASME/SMS (code 0, 16, 17, 37, 59, 60)



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
15	**1/2"**	20	20	20	20	18.0	18.0	19.0	21.3	105.0	35.5	1.5	1.0	1.5	1.6
20	**3/4"**	25	25	25	25	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	27	29	-	34.0	35.0	42.4	155.0	48.0	-	1.0	1.5	2.0
40	**1½"**	24	24	24	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	29	29	29	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]

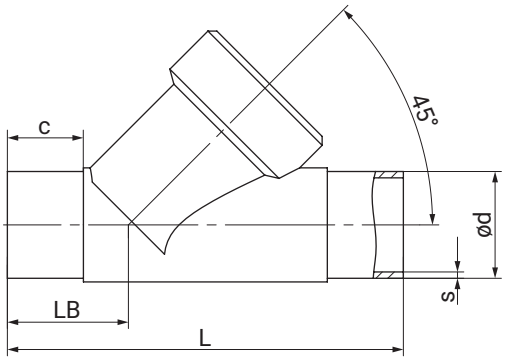
DN	NPS	c (min)		ød		L	LB	s	
		Connection type						Connection type	
		37	59	37	59			37	59
15	**1/2"**	-	20	-	12.70	105.0	35.5	-	1.65
20	**3/4"**	-	25	-	19.05	120.0	39.0	-	1.65
25	**1"**	24.5	24.5	25.0	25.40	125.0	38.5	1.2	1.65
32	**1¼"**	-	-	-	-	155.0	48.0	-	-
40	**1½"**	24	24	38.0	38.10	160.0	47.0	1.2	1.65
50	**2"**	29	29	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 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

Spigot EN/ISO/ASME/SMS (code 17, 37, 59, 60)



Connection type spigot EN/ISO/ASME (code 17, 60) [1], investment casting material (code 37) [2]

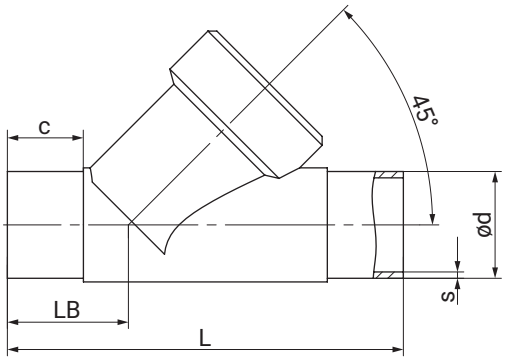
DN	NPS	c (min)		ød		L	LB	s	
		Connection type						Connection type	
		17	60	17	60			17	60
15	**1/2"**	18	18	19.0	21.3	100.0	33.0	1.5	1.6
20	**3/4"**	18	18	23.0	26.9	108.0	33.0	1.5	1.6
25	**1"**	18	18	29.0	33.7	112.0	32.0	1.5	2.0
32	**1¼"**	18	18	35.0	42.4	137.0	39.0	1.5	2.0
40	**1½"**	19	18	41.0	48.3	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)



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

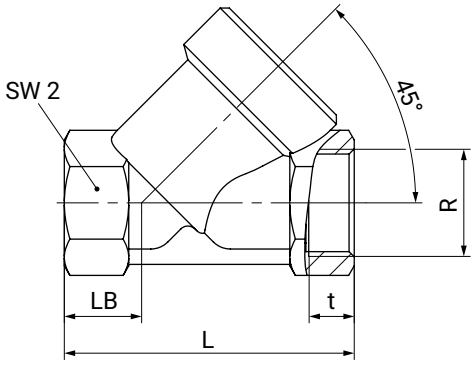
DN	NPS	c (min)			ød			L	LB	s		
		Connection type								Connection type		
		17	59	60	17	59	60			17	59	60
15	**1/2"**	20	15	20	19.0	12.70	21.3	105.0	35.5	1.5	1.65	1.6
20	**3/4"**	25	25	25	23.0	19.05	26.9	120.0	39.0	1.5	1.65	1.6
25	**1"**	24	24	24	29.0	25.40	33.7	125.0	39.5	1.5	1.65	2.0
32	**1¼"**	27	-	26.1	35.0	-	42.4	155.0	48.0	1.5	-	2.0
40	**1½"**	24	23	28.9	41.0	38.10	48.3	160.0	47.0	1.5	1.65	2.0
50	**2"**	28.23	28.23	48	53.0	50.80	60.3	180.0	48.0	1.5	1.65	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 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) [1], investment casting material (code 37) [2]

DN	NPS	L	LB	R	SW2	t
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

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

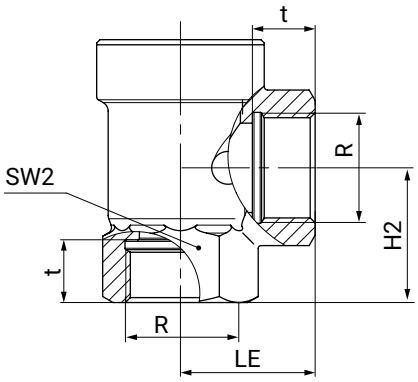
DN	NPS	L	LB	R		SW2	t	
				Connection type			Connection type	
				3C	3D		3C	3D
15	**1/2"**	65.0	16.5	Rc 1/2	1/2" NPT	27	15.0	13.6
20	**3/4"**	75.0	17.5	Rc 3/4	3/4" NPT	32	16.3	14.1
25	**1"**	90.0	24.0	Rc 1	1" NPT	41	19.1	17.0
32	**1¼"**	110.0	33.0	Rc 1¼	1¼" NPT	50	21.4	17.5
40	**1½"**	120.0	30.0	Rc 1½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

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

Threaded socket DIN/NPT body configuration E (code 1, 3D)



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

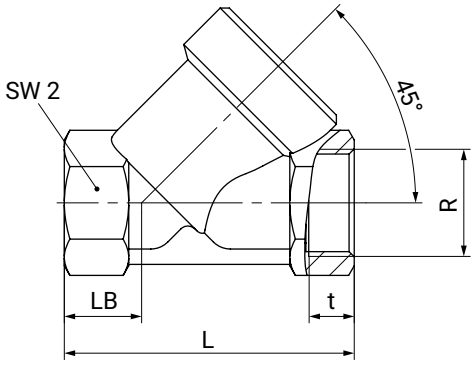
DN	NPS	H2	LE	SW2	R		t	
					Connection type		Connection type	
					1	3D	1	3D
15	**1/2"**	30.0	30.0	27	G 1/2	1/2" NPT	15.0	13.6
20	**3/4"**	37.5	35.0	32	G 3/4	3/4 " NPT	16.3	14.1
25	**1"**	41.0	41.0	41	G 1	1" NPT	19.1	17.0
32	**1¼"**	48.0	50.0	50	G 1¼	1¼" NPT	21.4	17.5
40	**1½"**	55.0	50.0	55	G 1½	1½"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

Threaded socket DIN/NPT (code 1, 3D)



Connection type threaded socket DIN/NPT (code 1, 3D) [1], block material (code 9) [2]

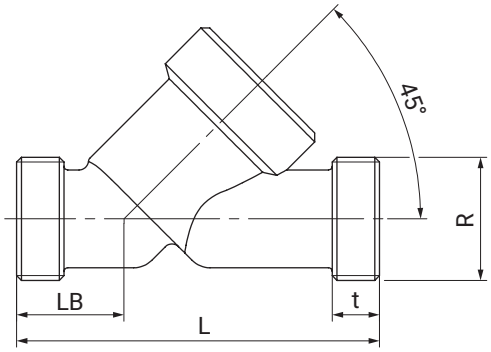
DN	NPS	L	LB	R		SW2	t	
				Connection type			Connection type	
				1	3D		1	3D
15	**1/2"**	65.0	16.5	G 1/2	1/2" NPT	27	15.0	13.6
20	**3/4"**	75.0	17.5	G 3/4	3/4" NPT	32	16.3	14.1
25	**1"**	90.0	24.0	G 1	1" NPT	41	19.1	17.0
32	**1¼"**	110.0	33.0	G 1¼	1¼" NPT	50	21.4	17.5
40	**1½"**	120.0	30.0	G 1½	1½" NPT	55	21.4	17.3
50	**2"**	150.0	40.0	G 2	2" NPT	70	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 9: CC499K, cast bronze

Threaded spigot DIN (code 9)



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

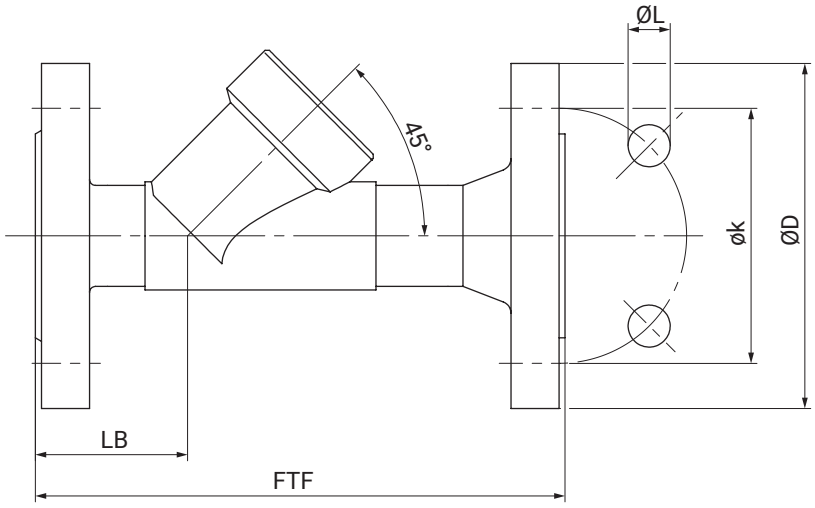
DN	L	LB	R	t
15	90.0	25.0	G 3/4	12.0
20	110.0	30.0	G 1	15.0
25	118.0	30.0	G 1¼	15.0
32	130.0	38.0	G 1½	13.0
40	140.0	35.0	G 1¾	13.0
50	175.0	50.0	G 2⅜	15.0

Dimensions in mm

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

2) **Valve body material**
Code 9: CC499K, cast bronze
Code 37: 1.4408, investment casting

Flange EN (code 10)



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

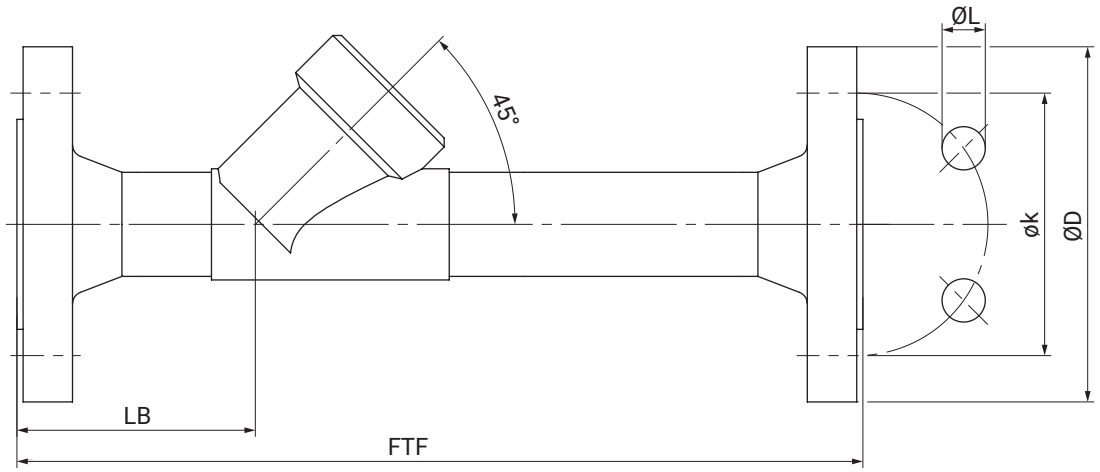
DN	NPS	ø D	FTF	ø k	ø L	LB	n
15	**1/2"**	95.0	130.0	65.0	14.0	33.0	4
20	**3/4"**	105.0	150.0	75.0	14.0	45.0	4
25	**1"**	115.0	160.0	85.0	14.0	44.0	4
32	**1¼"**	140.0	180.0	100.0	18.0	51.0	4
40	**1½"**	150.0	200.0	110.0	18.0	52.0	4
50	**2"**	165.0	230.0	125.0	18.0	50.0	4

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

Flange, special length EN/ANSI (code 13, 47)



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

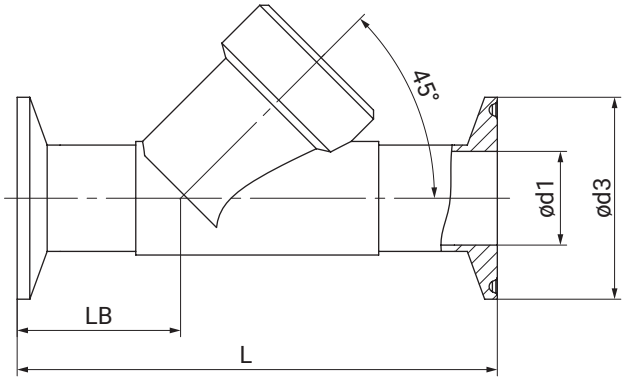
DN	NPS	ØD		FTF	øk		ØL		LB	n
		Connection type			Connection type		Connection type			
		13	47		13	47	13	47		
15	**1/2"**	95.0	89.0	210.0	65.0	60.5	14.0	15.7	72.0	4
20	**3/4"**	105.0	98.6	280.0	75.0	69.8	14.0	15.7	78.0	4
25	**1"**	115.0	108.0	280.0	85.0	79.2	14.0	15.7	77.0	4
32	**1¼"**	140.0	117.3	310.0	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

Clamp DIN/ASME (code 82, 86, 88)



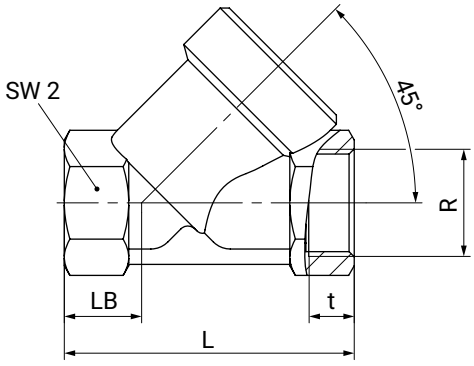
Connection type clamp DIN/ASME (code 82, 86, 88) [1], investment casting material (code 34) [2]

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

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

Threaded socket DIN/NPT (code 1, 3D)



Connection type threaded socket DIN/NPT (code 1, 3D) [1], block material (code 9) [2]

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

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 9: CC499K, cast bronze



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