

GEMÜ 530

Pneumatically operated globe valve



Features

- Simple and fast commissioning
- Valve and positioner are optimally adapted to each other
- Available as shut-off or control valve
- Stainless steel actuator resistant to corrosive ambient conditions
- Optionally with rapid venting valve for preventing the penetration of ambient media
- Faster actuator replacement and easily rotatable due to fixing via union nut
- Suitable for vacuum up to 20 mbar (a)

Description

The GEMÜ 530 2/2-way straight seat control valve has a robust, low-maintenance stainless steel 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 :** -40 to 210 °C
- **Ambient temperature:** 0 to 60 °C
- **Operating pressure :** 0 to 40 bar
- **Nominal sizes:** DN 15 to 100
- **Body configurations:** 2/2-way body
- **Connection types:** Flange
- **Connection standards:** ANSI | ASME | EN | ISO | JIS
- **Body materials:** 1.4408, cast stainless steel material | EN-GJS-400-18-LT, SG iron material
- **Seat seal materials:** PTFE | PTFE, reinforced
- **Conformities:** ATEX | CRN | EAC | FDA | Oxygen | SIL

Technical data depends on the respective configuration



further information
webcode: GW-530_Rule



Comparison of functions/positioner properties

			
	GEMÜ 1434 μPos	GEMÜ 1435 ePos	GEMÜ 1436 cPos
	Controller type		
	Positioner	●	●
Positioners and process controllers	-	-	●
Ambient temperature	0 Up to 60 °C	-20 Up to 60 °C	0 Up to 60 °C
Supply voltage			
24 V DC	●	●	●
Flow rate	15 NI/min	50 NI/min 90 NI/min	100 NI/min 172 NI/min 84 NI/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

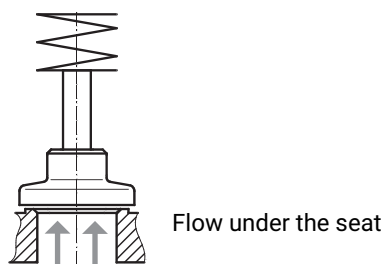
Construction



Item	Name	Materials
1	GEMÜ 1434 positioner	
2	Piston actuator	Stainless steel
3	Valve body	1.4408, investment casting EN-GJS-400-18-LT (GGG 40.3), SG iron

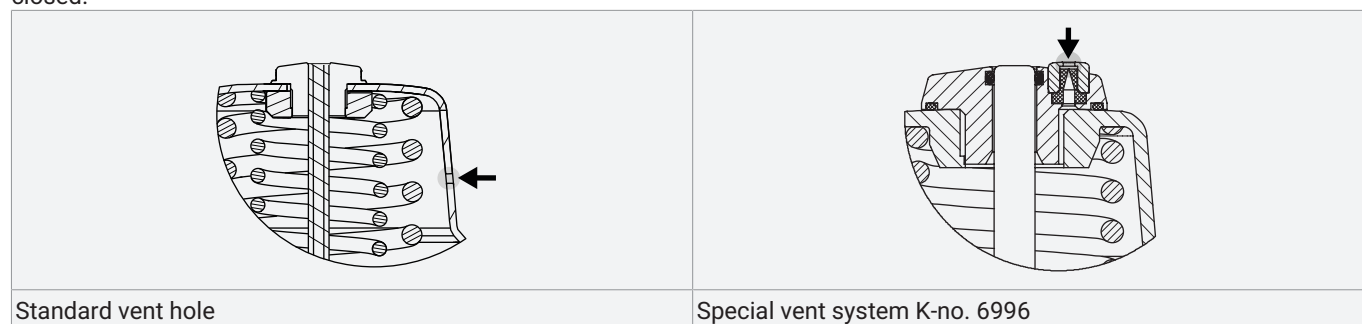
Flow direction

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

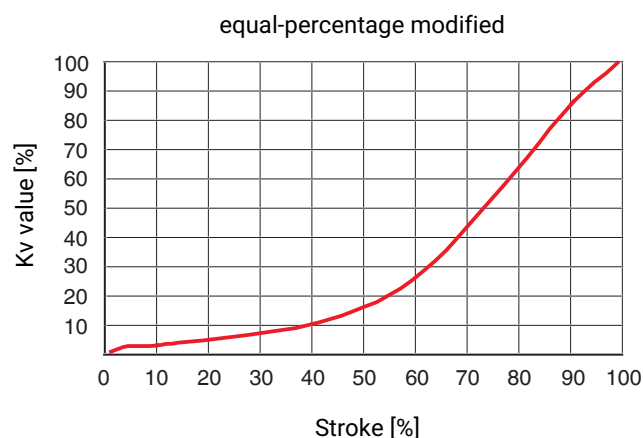
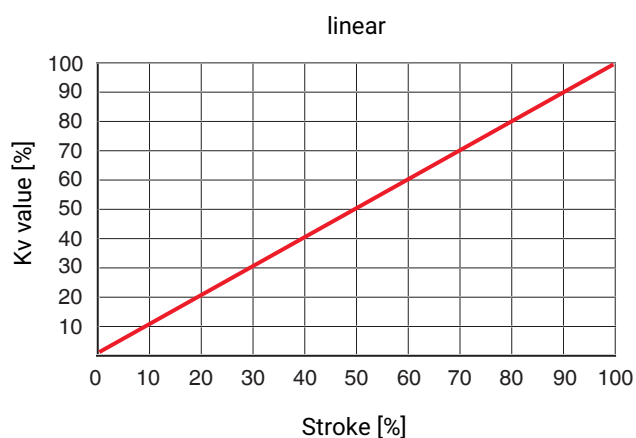


Vent hole in the actuator

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

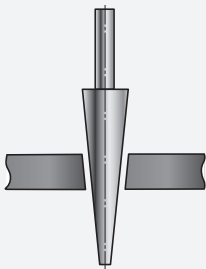
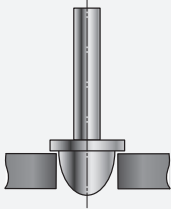
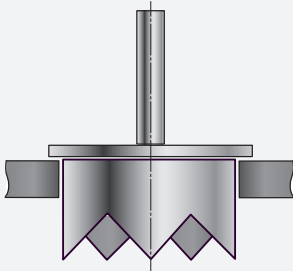


Kv value diagram



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 cage

Regulating needle	Regulating cone	Regulating cage
		
Regulating needle: RAxxx – RCxxx (reduced valve seat)	Regulating cone: DN 15 - 50	Regulating cage: DN 65 – 100

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:

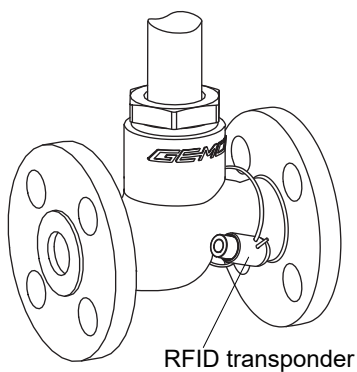
www.gemu-group.com/conexo

Ordering

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

In the corresponding design with CONEXO, this product has an RFID chip for electronic identification purposes. The position of the RFID chip can be seen below.

Installing the RFID chip



Availability

Actuator assignment

DN	Piston dia. [mm]				
	42	60	80	100	130
	Actuator size				
	1G1	2G1	3G1	4G1	5G1
15	X	X	-	-	-
20	X	X	-	-	-
25	-	X	X	-	-
32	-	X	X	X	X
40	-	-	X	X	X
50	-	-	X	X	X
65	-	-	-	-	X
80	-	-	-	-	X
100	-	-	-	-	X

Flange

DN	Connection type code ¹⁾						
	8	10	11	39	48		
	Material code ²⁾						
	37	90	37	37	37	90	37
15	-	X	-	X	X	X	X
20	-	X	-	X	X	X	X
25	-	X	-	X	X	X	X
32	-	X	X	X	X	X	-
40	-	X	X	X	X	X	X
50	X	X	-	X	X	X	X
65	X	X	-	X	X	X	-
80	X	X	-	X	X	X	-
100	X	X	-	X	X	X	-

1) Connection type

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

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

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

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

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

2) Valve body material

Code 37: 1.4408, investment casting

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

Design

Design	
Media temperature -10 to 210 °C (code 2023)	Seat seal (code 5G, 10)
For contact with foodstuffs, the product must be ordered with the following ordering options	Seat seal (code 5, 5G, 10) Valve body material (code 37)

Order data

The order data provide an overview of standard configurations.

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

Order codes

1 Type	Code
Globe valve, pneumatically operated, stainless steel piston actuator	530

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
DN 100	100

3 Housing configuration	Code
2/2-way body	D

4 Connection type	Code
Flange EN 1092, PN 16, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1	8
Flange EN 1092, PN 25, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1	10
Flange EN 1092, PN 40, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1	11
Flange ANSI Class 125/150 RF, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1	39
Flange JIS 20K, face-to-face dimension FTF EN 558 series 10, ASME/ANSI B16.10 table 1, column 16, DN 50 drilled to JIS 10K	48

5 Valve body material	Code
1.4408, investment casting	37
EN-GJS-400-18-LT (GGG 40.3)	90

6 Seat seal	Code
PTFE	5

6 Seat seal	Code
PTFE, glass fibre reinforced	5G
1.4404	10
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 1G1	1G1
Actuator size 2G1	2G1
Actuator size 3G1	3G1
Actuator size 4G1	4G1
Actuator size 5G1	5G1

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
Standard	
For higher operating temperatures	2023
Special bleed system integrated in actuator	6996

11 Special version	Code
Standard	
Special version for oxygen, (max. temperature 60 °C; max. operating pressure 10 bar), media wetted seal materials and auxiliary materials with BAM testing	S

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

Order example

Ordering option	Code	Description
1 Type	530	Globe valve, pneumatically operated, stainless steel piston actuator
2 DN	25	DN 25
3 Housing configuration	D	2/2-way body
4 Connection type	10	Flange EN 1092, PN 25, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1

Ordering option	Code	Description
5 Valve body material	37	1.4408, investment casting
6 Seat seal	5	PTFE
7 Control function	1	Normally closed (NC)
8 Actuator version	2G1	Actuator size 2G1
9 Regulating cone	RS133	10 m³/h – mod.EQ
10 Type of design		Standard
11 Special version		Standard
12 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: -40 – 180 °C
Special version: -10 – 210 °C only with the design ordering option (code 2023)
-10 – 60 °C only with the special function ordering option (code S)

Ambient temperature: 0 – 60 °C

Control medium temperature: 0 – 60 °C

Storage temperature: -30 – 60 °C

Pressure

Control valve: Valve body material 1.4408 (code 37), EN-GJS-400-18-LT (code 90)

DN	Kv value [m ³ /h]	Operating pressure [bar]	Actuator size	Regulating cone number	
				Linear	Equal-percent- age (mod.)
15	4.0	10.0	1G1	RS121	RS131
	4.0	22.0	2G1	RS120	RS130
20	6.3	12.0	2G1	RS122	RS132
25	10.0	7.0	2G1	RS123	RS133
32	16.0	10.0	3G1	RS124	RS134
40	25.0	6.0	3G1	RS125	RS135
50	40.0	7.0	4G1	RS126	RS136
65	63.0	8.0	5G1	-	RS330
80	90.0	6.0	5G1	-	RS331
100	160.0	3.0	5G1	-	RS332

Control valve:

Valve body material 1.4408 (code 37)

DN	Kv value [m³/h]	Operating pressure [bar]	Actuator size	Regulating cone number	
				Linear	Equal-percent- age (mod.)
15	0.1*	40.0	2G1	RB102	RA303
	0.16*	40.0	2G1	RB104	RA304
	0.25*	40.0	2G1	RB105	RB303
	0.4*	40.0	2G1	RB106	RB304
	0.63*	40.0	2G1	RC103	RC303
	1.0*	40.0	2G1	RC104	RC304
	1.6	40.0	2G1	RD103	RD303
	2.5	40.0	2G1	RE104	RE304
20	1.6	40.0	2G1	RD104	RD304
	2.5	40.0	2G1	RE105	RE305
	4.0	40.0	2G1	RF104	RF304
25	2.5	40.0	2G1	RE106	RE306
	4.0	40.0	2G1	RF105	RF305
	6.3	18.0	2G1	RG104	RG304
32	4.0	40.0	2G1	RF106	RF306
	6.3	18.0	2G1	RG105	RG305
	10.0	10.0	2G1	RH104	RH304
40	6.3	40.0	3G1	RG106	RG306
	10.0	24.0	3G1	RH105	RH305
	16.0	15.0	3G1	RJ103	RJ303
50**	10.0	16.0	3G1	RH106	RH306
	16.0	12.0	3G1	RJ104	RJ304
	25.0	16.0	4G1	RK102	RK302

* metal seated

** only for connection code 8, 39, 48

Please observe the pressure/temperature correlation table.

Pressure/temperature correlation:

Connection type code	Material code	Permissible operating pressures in bar at temperature in °C					
		RT	100	150	200	250	300
8	37	16.0	16.0	14.5	13.4	12.7	11.8
10	37	25.0	25.0	22.7	21.0	19.8	18.5
11	37	40.0	40.0	36.3	33.7	31.8	29.7
39	37	19.0	16.0	14.8	13.6	12.0	10.2
8	90	16.0	16.0	15.5	14.7	13.9	11.2
39	90	17.0	16.0	14.8	13.9	12.1	10.2

All pressures are gauge pressures.

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

RT = room temperature

Pressure/temperature correlation for connection code 48: DN 15–40 see connection code 10, DN 50 see connection code 8.

Pressure rating:

PN 16

PN 25

PN 40

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 version code	Filling volume	Piston diameter
1G1	0.025 dm ³	42 mm
2G1	0.084 dm ³	60 mm
3G1	0.245 dm ³	80 mm
4G1	0.437 dm ³	100 mm
5G1	0.798 dm ³	130 mm

Control pressure:

max. 8.0 bar

Product conformity

Food:	Regulation (EC) No. 1935/2004* Regulation (EC) No. 10/2011* FDA*
TA Luft (German Clean Air Act):	The product complies with the equivalence requirements of section 5.2.6.4 of the German Clean Air Act (TA Luft / VDI 2440 according to section 3.3.1.3) * depending on version and/or operating parameters
Pressure Equipment Directive:	2014/68/EU
Machinery Directive:	2006/42/EC
Explosion protection:	ATEX (2014/34/EU) on request

Mechanical data

Weight:

Valve body

DN	Weight
15	2.2
20	3.0
25	3.7
32	5.3
40	6.3
50	11.5
65	12.7
80	15.4
100	23.0

Weights in kg

Total weight without positioner

DN	Actuator size				
	1	2	3	4	5
15	3.1	3.2	-	-	-
20	3.8	4.0	-	-	-
25	-	4.8	5.5	-	-
32	-	6.6	7.3	8.7	11.8
40	-	-	8.4	9.8	12.9
50	-	-	10.7	12.1	15.2
65	-	-	-	-	20.4
80	-	-	-	-	23.1
100	-	-	-	-	29.0

Weights in kg

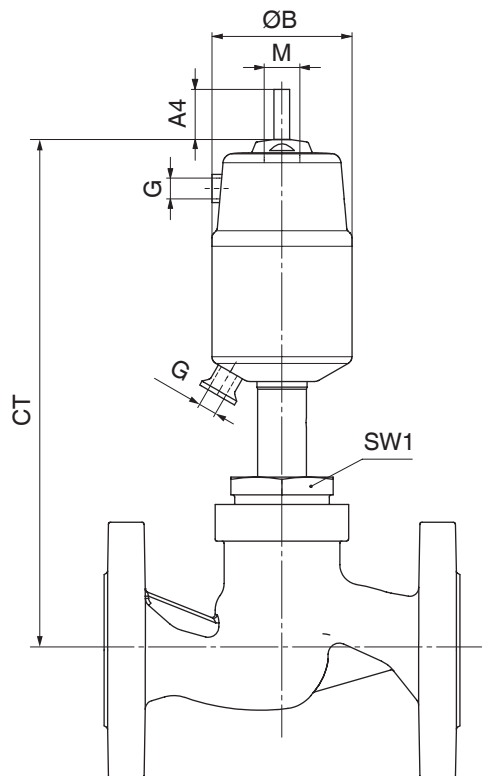
Technical data - Positioners

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

Installation dimensions



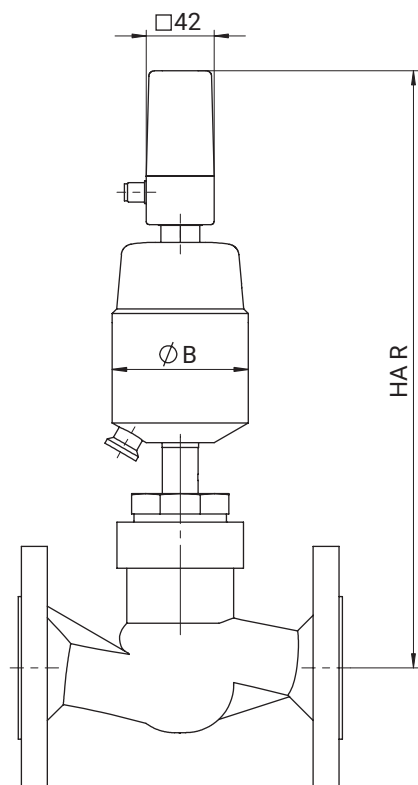
DN	SW1 metric	Actuator size														
		1					2					3				
		A4 max.	ØB	CT	G	M	A4 max.	ØB	CT	G	M	A4 max.	ØB	CT	G	M
15	36.0	12.0	46.0	167.0	G 1/8	M16x1	22.0	63.0	213.0	G 1/8	M16x1	-	-	-	-	-
20	41.0	12.0	46.0	174.0	G 1/8	M16x1	22.0	63.0	220.0	G 1/8	M16x1	-	-	-	-	-
25	46.0	-	-	-	-	-	22.0	63.0	231.0	G 1/8	M16x1	28.0	84.0	247.0	G 1/4	M16x1
32	55.0	-	-	-	-	-	22.0	63.0	236.0	G 1/8	M16x1	28.0	84.0	252.0	G 1/4	M16x1
40	60.0	-	-	-	-	-	-	-	-	-	-	28.0	84.0	263.0	G 1/4	M16x1
50	55.0	-	-	-	-	-	-	-	-	-	-	28.0	84.0	271.0	G 1/4	M16x1

DN	SW1 metric	Actuator size									
		4					5				
		A4 max.	ØB	CT	G	M	A4 max.	ØB	CT	G	M
32	55.0	32.0	104.0	290.0	G 1/4	M22x1.5	41.0	135.0	317.0	G 1/4	M22x1.5
40	60.0	32.0	104.0	301.0	G 1/4	M22x1.5	41.0	135.0	328.0	G 1/4	M22x1.5
50	55.0	32.0	104.0	309.0	G 1/4	M22x1.5	41.0	135.0	336.0	G 1/4	M22x1.5
65	75.0	-	-	-	-	-	41.0	135.0	359.0	G 1/4	M22x1.5
80	75.0	-	-	-	-	-	41.0	135.0	379.0	G 1/4	M22x1.5
100	75.0	-	-	-	-	-	41.0	135.0	400.0	G 1/4	M22x1.5

Dimensions in mm

Dimensions with positioner

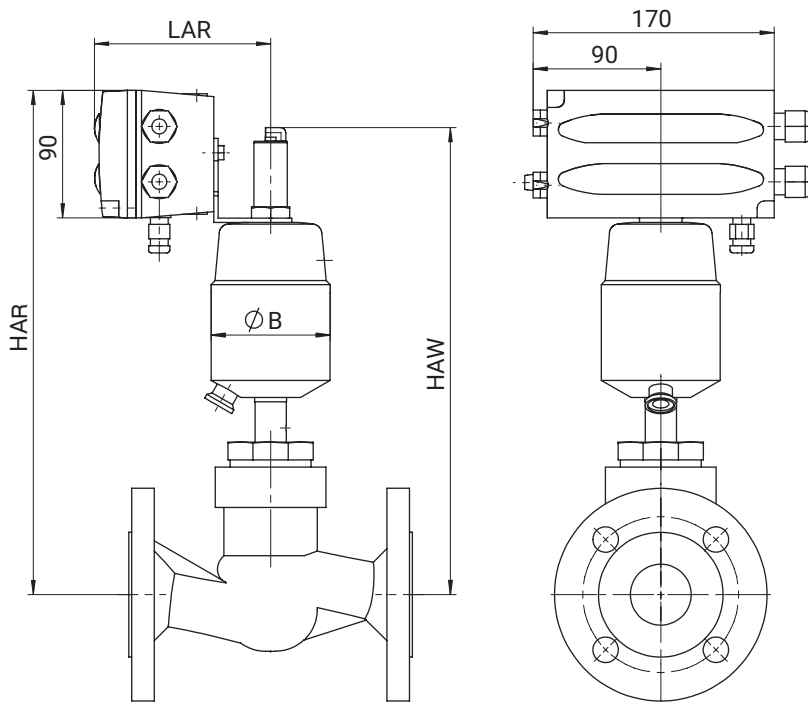
GEMÜ 530 with 1434 μ Pos



DN	Actuator size	Control function	ØB	HAR
15	1G1	1	46.0	271.0
	2G1	1	63.0	317.0
20	2G1	1	63.0	324.0
25	2G1	1	63.0	335.0
32	2G1	1	63.0	340.0
	3G1	1	-	-
40	3G1	1	-	-
50	4G1	1	-	-

Dimensions in mm

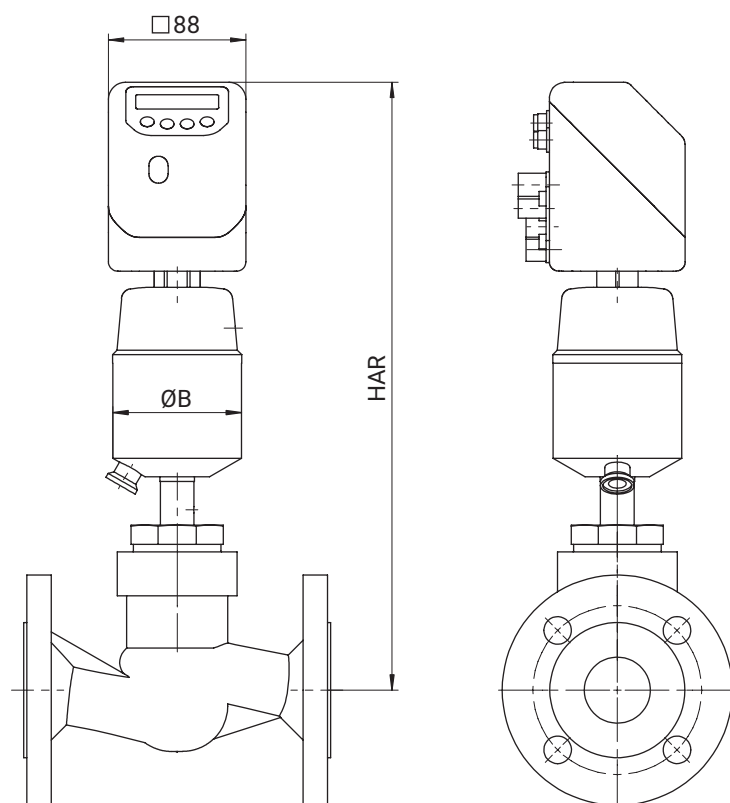
GEMÜ 530 with 1435 ePos



DN	Actuator size	Control function	ØB	HAR	HAW	LAR
15	1G1	1	46.0	255.0	228.0	118.0
		3, 8	46.0	279.0	252.0	118.0
	2G1	1	63.0	301.0	274.0	118.0
		3, 8	63.0	325.0	298.0	118.0
20	2G1	1	63.0	308.0	281.0	118.0
		3, 8	63.0	332.0	305.0	118.0
25	2G1	1	63.0	319.0	292.0	118.0
		3, 8	63.0	343.0	316.0	118.0
32	2G1	1	63.0	324.0	297.0	118.0
		3, 8	63.0	348.0	321.0	118.0
	3G1	1	84.0	340.0	335.0	118.0
		3, 8	84.0	364.0	359.0	118.0
40	3G1	1	84.0	351.0	346.0	118.0
		3, 8	84.0	375.0	370.0	118.0
50	3G1	1	84.0	359.0	354.0	118.0
		3, 8	84.0	383.0	378.0	118.0
	4G1	1	104.0	402.0	397.0	138.0
65	5G1	1	135.0	459.0	454.0	138.0
80	5G1	1	135.0	474.0	469.0	138.0
100	5G1	1	135.0	495.0	490.0	138.0

Dimensions in mm

GEMÜ 530 with 1436 cPos

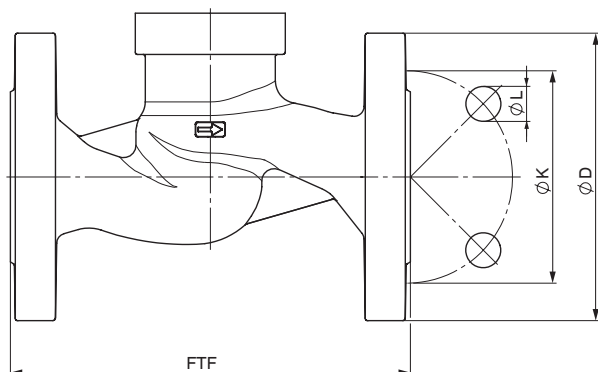


DN	Actuator size	Control function	ØB	HAR
15	2G1	1	63.0	348.0
		3	63.0	372.0
20	2G1	1	63.0	355.0
		3	63.0	379.0
25	2G1	1	63.0	366.0
		3	63.0	390.0
32	2G1	1	63.0	371.0
		3	63.0	395.0
	3G1	1	84.0	410.0
		3	84.0	433.0
40	3G1	1	84.0	420.0
		3	84.0	444.0
50	3G1	1	84.0	428.0
		3	84.0	452.0
	4G1	1	104.0	472.0
65	5G1	1	135.0	526.0
80	5G1	1	135.0	542.0
100	5G1	1	135.0	562.0

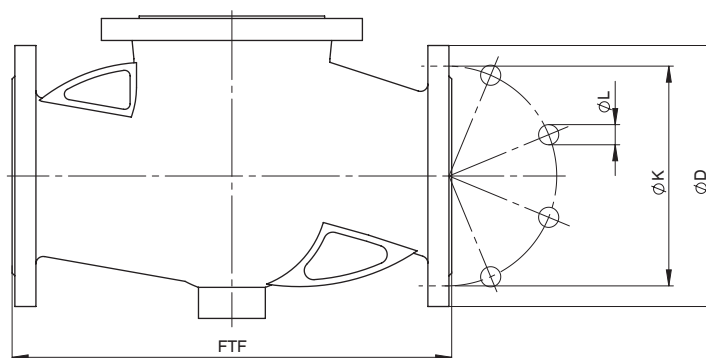
Dimensions in mm

Body dimensions

Flange EN (code 8)



DN 15 - 50



DN 65 - 100

Connection type flange, length EN 558 (code 8)¹⁾, SG iron material (code 90)²⁾

DN	NPS	ø D	FTF	ø k	ø L	n
15	1/2"	95.0	130.0	65.0	14.0	4
20	3/4"	105.0	150.0	75.0	14.0	4
25	1"	115.0	160.0	85.0	14.0	4
32	1¼"	140.0	180.0	100.0	18.0	4
40	1½"	150.0	200.0	110.0	18.0	4
50	2"	165.0	230.0	125.0	18.0	4
65	2½"	185.0	290.0	145.0	18.0	4
80	3"	200.0	310.0	160.0	18.0	8
100	4"	220.0	350.0	180.0	18.0	8

Connection type flange, length EN 558 (code 8)¹⁾, investment casting material (code 37)²⁾

DN	NPS	ø D	FTF	ø k	ø L	n
50	2"	165.0	230.0	125.0	18.0	4
65	2½"	185.0	290.0	145.0	18.0	4
80	3"	200.0	310.0	160.0	18.0	8
100	4"	220.0	350.0	180.0	18.0	8

Dimensions in mm

n = number of bolts

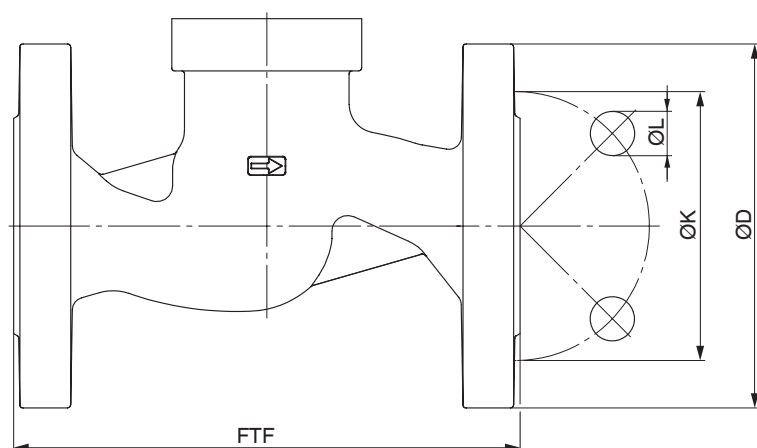
1) Connection type

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

2) Valve body material

Code 37: 1.4408, investment casting

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

Flange EN/JIS (code 10, 11, 48)**Connection type flange, length EN 558 (code 10)¹⁾, investment casting material (code 37)²⁾**

DN	NPS	ø D	FTF	ø k	ø L	n
32	1¼"	140.0	180.0	100.0	18.0	4
40	1½"	150.0	200.0	110.0	18.0	4

Connection type flange, length EN 558 (code 11)¹⁾, investment casting material (code 37)²⁾

DN	NPS	ø D	FTF	ø k	ø L	n
15	1/2"	95.0	130.0	65.0	14.0	4
20	3/4"	105.0	150.0	75.0	14.0	4
25	1"	115.0	160.0	85.0	14.0	4
32	1¼"	140.0	180.0	100.0	18.0	4
40	1½"	150.0	200.0	110.0	18.0	4
50	2"	165.0	230.0	125.0	18.0	4
65	2½"	185.0	290.0	145.0	18.0	8
80	3"	200.0	310.0	160.0	18.0	8
100	4"	235.0	350.0	190.0	22.0	8

Connection type flange, length EN 558 (code 48), investment casting material (code 37)²⁾

DN	NPS	ø D	FTF	ø k	ø L	n
15	1/2"	95.0	108.0	70.0	15.0	4
20	3/4"	100.0	117.0	75.0	15.0	4
25	1"	125.0	127.0	90.0	19.0	4
40	1½"	140.0	165.0	105.0	19.0	4
50	2"	155.0	203.0	120.0	19.0	4

Dimensions in mm

n = number of bolts

1) Connection type

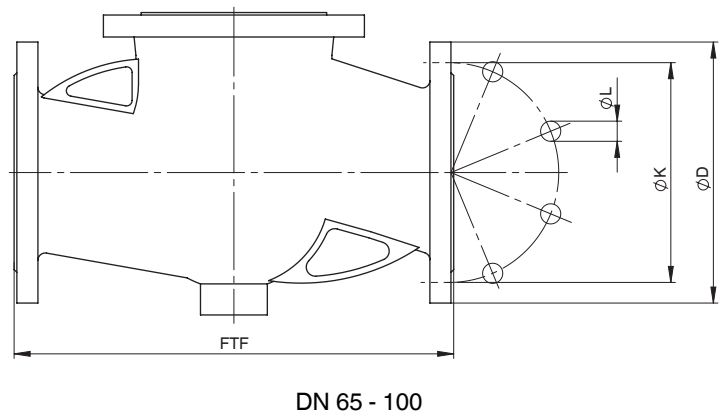
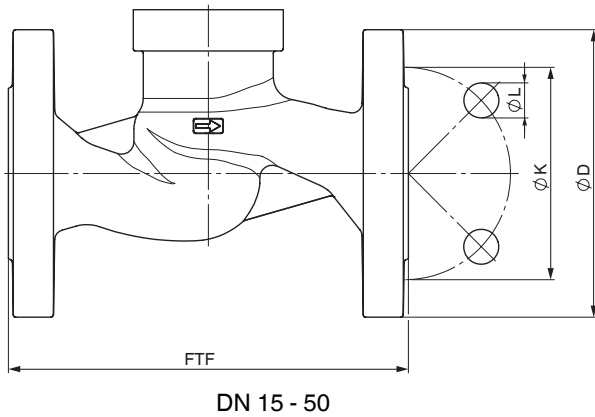
Code 10: Flange EN 1092, PN 25, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1

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

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

2) Valve body material

Code 37: 1.4408, investment casting

Flange ANSI Class (code 39)

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

DN	NPS	Ø D	FTF	Ø k	Ø L	n
15	1/2"	90.0	130.0	60.3	15.9	4
20	3/4"	100.0	150.0	69.9	15.9	4
25	1"	110.0	160.0	79.4	15.9	4
32	1¼"	115.0	180.0	88.9	15.9	4
40	1½"	125.0	200.0	98.4	15.9	4
50	2"	150.0	230.0	120.7	19.0	4
65	2½"	180.0	290.0	139.7	19.0	4
80	3"	190.0	310.0	152.4	19.0	4
100	4"	230.0	350.0	190.5	19.0	8

Dimensions in mm

n = number of bolts

1) **Connection type**

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

2) **Valve body material**

Code 37: 1.4408, investment casting

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

Specification | GEMÜ regulating cones for globe valves

Customer/Project _____ Contact person _____

Date _____ Phone _____

Contact person (GEMÜ) _____ E-mail _____

Technical requirementsMedium ¹⁾

Requirement characteristic	1st operating point maximum flow	2nd operating point medium flow	3rd operating point minimum flow
Media temperature ⁴⁾			
Inlet pressure			
Outlet pressure			
Flow rate ^{2, 3)}			
in [m³/h] for liquids			
for gases ⁶⁾			
in [kg/h] for steam			

Operation	Manual					
	Pneumatic	Control function	NC (normally closed)	NO (normally open)	DA (double acting)	Double acting (normally open)
	Motorized	Voltage	24 V DC	Other		
Control fitting	Set value information		0-10 V	0/4–20 mA		
	Feature		linear	modified equal-percentage		

Valve body	Type	
	Required valve DN	
	Max. operating pressure (bar)	
	Ambient temperature ⁴⁾	
	Max. media temperature	
	Connection type	
	Body material	
	Seat seal ⁷⁾	PTFE Other
	Control pressure	min max

1) Liquid or gas?

For media other than water or air, it is useful to give data for the density and viscosity of the medium (with unit of measurement). Otherwise we will assume data for standard conditions.

2) For steam especially, the minimum or maximum flow rate should be assigned to the appropriate inlet or outlet pressure. The temperature of the medium should also be taken into account.**3) GEMÜ recommends a positioning ratio of 1 : 10 (e.g. minimal flow rate is 10 m³/h and the maximum flow rate is 100 m³/h). Please note that the valve only controls reliably from a flow of about 10% of the max. Kv value on account of the valve opening behaviour. Other positioning ratios are possible on request or in the selection of standard regulating cones.****4) The media temperature range must be specified for steam applications. T = 20 °C is assumed unless specified otherwise.****5) This data is not absolutely necessary. A room temperature of 20 °C is assumed unless specified otherwise.****6) Basis: standard conditions 0 °C, 1013.25 mbar. If conditions differ, please specify them.****7) The seat seal is made of PTFE as standard. For regulating needles with a Kv value between 0.1 and 1.0 m³/h, only a metal seal is possible. Other materials possible on request.**

The technical details of each enquiry must be checked by GEMÜ.

Comment:



GEMÜ Gebr. Müller Apparatebau GmbH & Co. KG
Fritz-Müller-Straße 6-8, 74653 Ingelfingen-Criesbach, Germany
Phone +49 (0) 7940 1230 · info@gemue.de
www.gemu-group.com