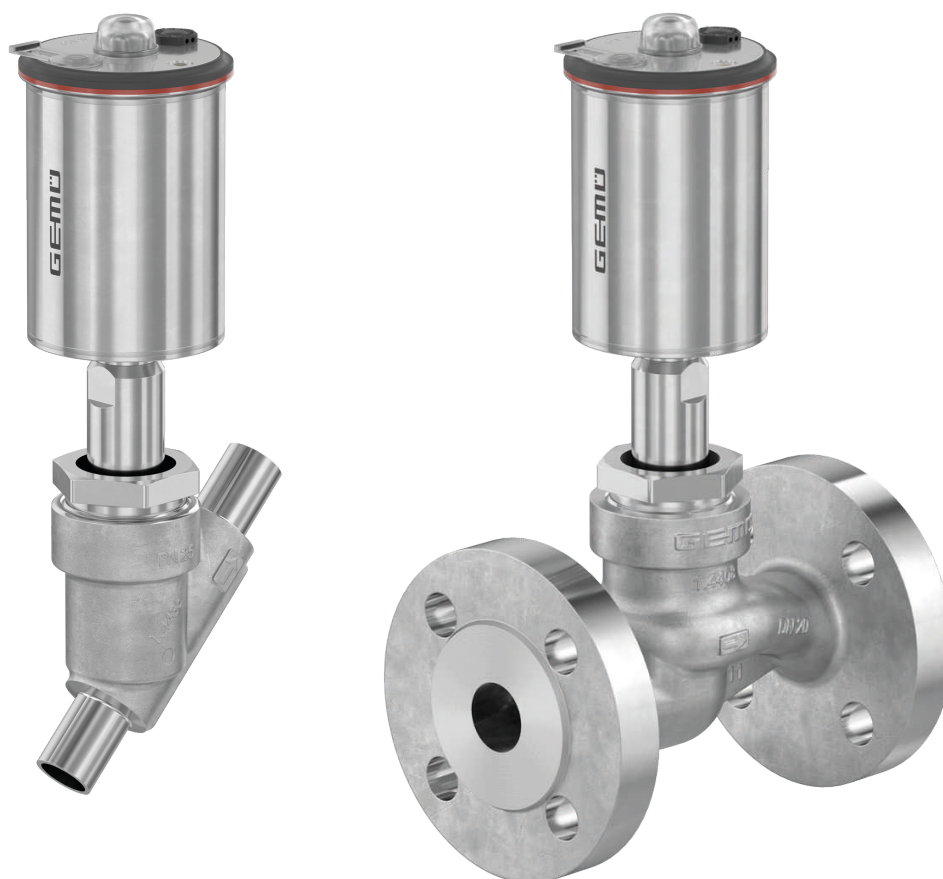


GEMÜ S40

Pneumatically operated globe valve

EN

Operating instructions



further information
webcode: GW-S40



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18.05.2026

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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.
- A supplement to Directive 2014/34/EU (ATEX Directive) is included with the product, provided that it was ordered in accordance with ATEX.

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.

Control function

The possible actuation functions of the GEMÜ product.

Control medium

The medium whose increasing or decreasing pressure causes the GEMÜ product to be actuated and operated.

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!
	Risk of crushing due to moving parts when the valve is not installed!
	The equipment is subject to pressure!
	Hot plant components!
	Risk of injury due to moving parts when the valve is not installed!
	Danger of burning from hot surfaces!
	Risk of injury due to components being flung away!
	Hazardous media may escape if the seal/gland packaging is defective!
	The ambient temperature must be complied with.

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:

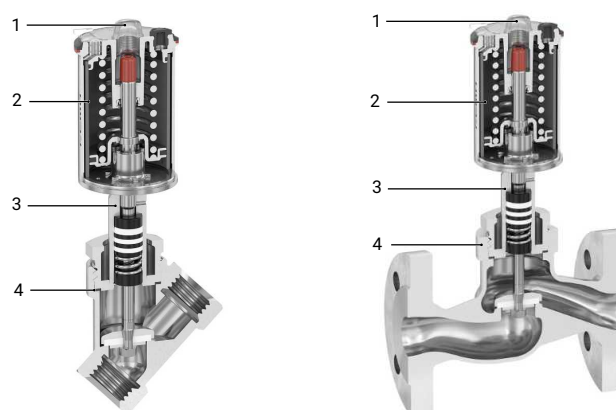
9. Keep this document available at the place of use.
10. Observe the safety information.
11. Operate the product in accordance with this document.
12. Operate the product in accordance with the specifications.
13. Maintain the product correctly.
14. Do not carry out any maintenance work and repairs not 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
1	Transparent cap	PC
2	Actuator	1.4308 / 1.4301 / PVDF / FKM
3	Distance piece with leak detection hole	1.4404 / 1.4408
4	Valve body	1.4408, investment casting 1.4435, investment casting EN-GJS-400-18-LT, SG iron 1.4435 (F316L), forged body
-	Optional accessories available: For example GEMÜ 44A0, etc.	-

3.2 Description

The pneumatically actuated GEMÜ S40 globe valve is designed for use in industrial applications and has body shapes such as angled and straight seat bodies. The valve spindle is sealed by a self-adjusting sealing element; this ensures low-maintenance and reliable sealing even after long periods of operation. Normally Closed, Normally Open and Double Acting control functions are available.

3.3 Function

The product controls a flowing working medium, since it can be closed or opened by a control medium. The optical position indicator, in turn, indicates the open or closed position of the valve.

3.4 Control function

The following control functions are available:

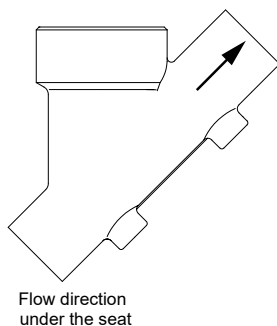
Control function 1: Normally closed (NC)

Control function 2: Normally open (NO)

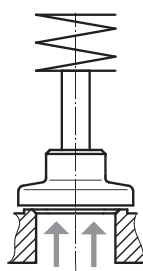
Control function 3: Double acting (DA)

3.5 Flow direction

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



Under the seat
(code G)



Under the seat (code G) is the preferred flow direction with incompressible liquid media to avoid water hammer.

3.6 Vent hole in the actuator

Normally closed (NC):

Valve resting position: Closed by spring force. Activation of the actuator (connector 1) opens the valve. When the actuator is vented, the valve is closed by spring force.

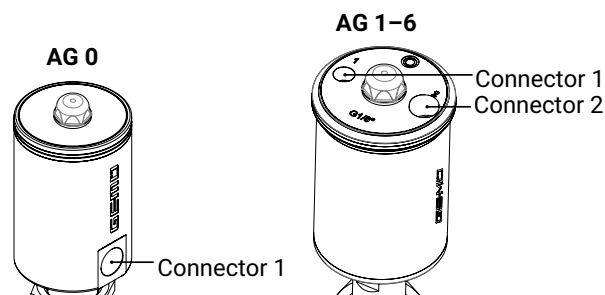
Normally open (NO):

Valve resting position: Opened by spring force. Activation of the actuator (connector 2) closes the valve. When the actuator is vented, the valve is opened by spring force.

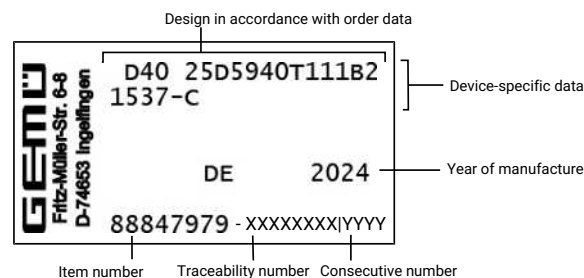
Double acting (DA):

Valve resting position: No defined normal position. The valve is opened and closed by activating the respective control medium connectors (connector 1: Open/connector 2: Close).

Control function	Connector 1	Connector 2
1 (NC)	Control medium connector	Vent hole
2 (NO)	Vent hole	Control medium connector
3 (DA)	Control medium connector	Control medium connector



3.7 Product label



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

The operating pressure stated on the product label applies to a media temperature of 20 °C. The product can be used up to the maximum stated media temperature. You can find the pressure/temperature correlation in the technical data.

4 GEMÜ Conexo

The interaction between valve components equipped with an RFID chip and the corresponding IT infrastructure actively increases process reliability.



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

You can find further information on GEMÜ CONEXO at:
www.gemu-group.com/conexo

5 Intended use

 DANGER	
	Danger of explosion! ▶ Risk of severe injury or death ● If there is no corresponding declaration of conformity, the product must not be used in potentially explosive atmospheres! ● 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.

5.1 Product with special function X

With the special version X order option, the product is intended for use in potentially explosive areas in zone 1 with gases, mists or vapours and zone 21 with combustible dusts in accordance with EU Directive 2014/34/EU (ATEX).

The product has the following explosion protection marking:

⊕ Gas: II 2 G Ex h IIC T6 ... T3 Gb X

⊕ Dust: II -/2 D Ex h -/IIIC T185 °C -/Db X

The product has been developed in compliance with the following harmonised standards:

- EN 1127-1:2019
- EN IEC 80079-36 authorization 1:2024
- EN IEC 80079-36:2016
- EN IEC 80079-37:2016

For use in potentially explosive areas, the following conditions or operation limits must be observed:

- Temperature class depending on the temperature of the conveyed medium and the clock frequency (for T6, do not clock faster than once per second).
- For liquids and gases or gas compounds (free of aerosols and particulates). If gases or gas compounds are not free of aerosols and particulates (hybrid mixtures), the operator must take special measures for compliance with explosion protection.
- For the ambient temperature range, see technical data.
- For products with a Conexo RFID chip, see the supplement "Special conditions for products with a RFID chip".

- Must be integrated into the equipotential bonding of the entire system.

5.2 Product without special function X

The product is not intended for use in potentially explosive areas.

6 Order data

The order data provide an overview of standard configurations.

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

The **actuator version** is made up of the following codes: Actuator spring set, working medium flow direction and actuator size (e.g. 1G1, 1G2, 1G3, etc.).

Order codes

1 Type	Code
Globe valve, pneumatically operated, stainless steel piston actuator	S40

2 DN, connection 1	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
Globe valve body	G
Angle seat body	S

4 Valve body connection type, connection 1	Code
Spigot	
Spigot EN 10357 series A/DIN 11866 series A	17
Spigot ASME BPE/DIN EN 10357 series C (from 2022 edition)/DIN 11866 series C	59
Spigot ISO 1127/DIN EN 10357 series C (2014 edition)/DIN 11866 series B	60
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 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

4 Valve body connection type, connection 1	Code
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
Clamp	
Clamp ASME BPE, face-to-face dimension FTF ASME BPE	80
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
Note: A surface finish from the order code table "Type of design"" must be specified for valve body material C2.	
1.4408, investment casting	37
1.4435, investment casting	C2
EN-GJS-400-18-LT (GGG 40.3), SG iron	90
1.4435 (F316L), forged body	40

6 Seat seal	Code
PTFE	5
PTFE USP Class VI	5P
1.4404	10

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

8 Actuator spring set	Code
Standard spring set	1

9 Working medium flow direction	Code
Flow under the seat	G

10 Actuator size	Code
Actuator size 0	0
Actuator size 1	1
Actuator size 2	2
Actuator size 3	3
Actuator size 4	4
Actuator size 5	5
Actuator size 6	6

11 Regulating cone	Code
Without	
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....

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

12 Type of design	Code
Ra ≤ 0.4 µm for media-wetted surfaces, in accordance with DIN 11866 HE4/ASME BPE SF5, electropolished internal/external	1959

13 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
ATEX marking	X

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

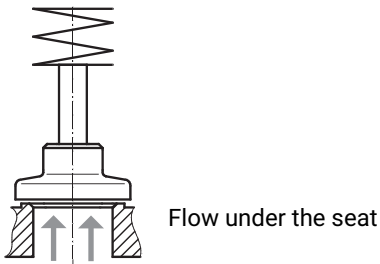
Order example

Ordering option	Code	Description
1 Type	S40	Globe valve, pneumatically operated, stainless steel piston actuator
2 DN, connection 1	25	DN 25
3 Housing configuration	S	Angle seat body
4 Valve body connection type, connection 1	17	Spigot EN 10357 series A/DIN 11866 series A
5 Valve body material	37	1.4408, investment casting
6 Seat seal	5	PTFE
7 Control function	1	Normally closed (NC)
8 Actuator spring set	1	Standard spring set
9 Working medium flow direction	G	Flow under the seat
10 Actuator size	2	Actuator size 2
11 Regulating cone		Without
12 Type of design		Standard
13 Special version		Standard
14 CONEXO		Without

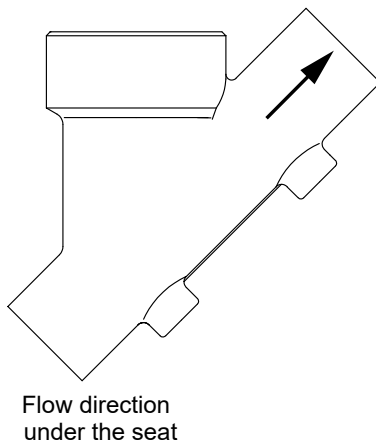
7 Technical data

7.1 General

7.1.1 Flow direction



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



7.1.2 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

7.1.3 Temperature

Media temperature:

- 10 to 185 °C only with body material ordering option (code 90)
- 40 to 185 °C only with body material ordering option (code 37)
- 10 to 185 °C only with body material ordering option (codes C2, 40)
- 10 to 60 °C only with special function ordering option (code S)

Ambient temperature:

- 20 – 80 °C
- For special function S: -10 to 60 °C

Control medium temperature: 0 – 60 °C

Storage temperature: -40 – 80 °C

7.1.4 Pressure/temperature

Pressure/temperature correlation:

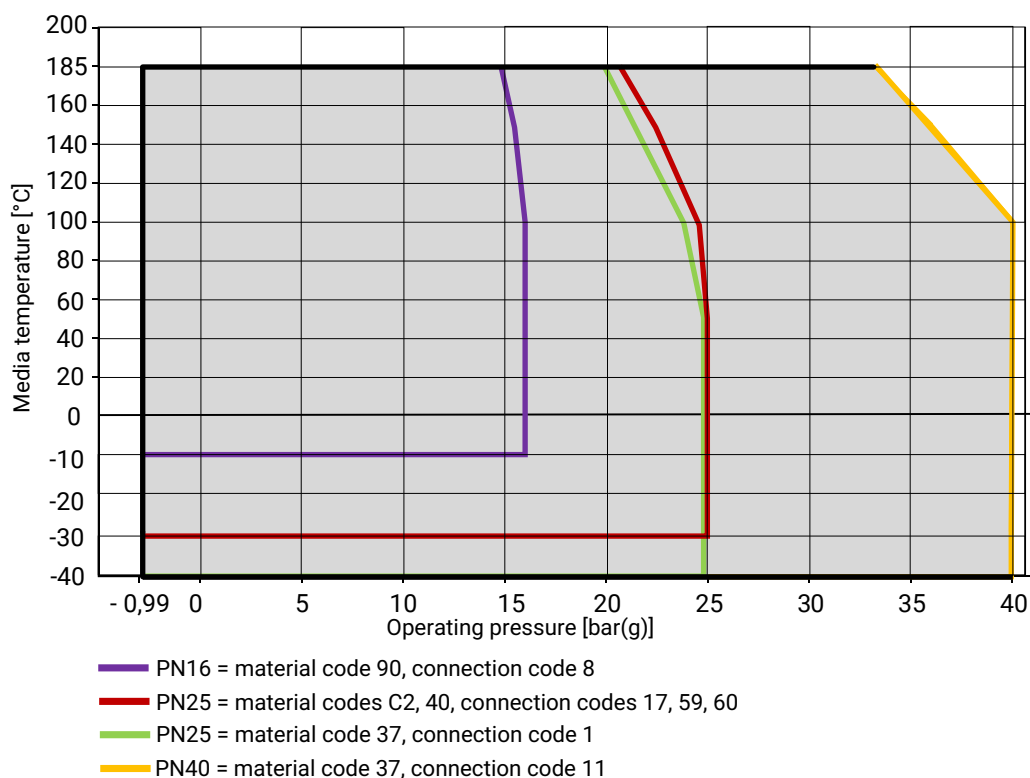
Connection type code	Material code	Permissible operating pressures in bar at temperature in °C					
		RT	100	150	200	250	300
1, 9, 17, 37, 60, 3C, 3D	37	25.0	23.8	21.4	18.9	17.5	16.1
8	37	16.0	16.0	14.5	13.4	12.7	11.8
11	37	40.0	40.0	36.3	33.7	31.8	29.7
39	37	19.0	16.0	14.8	13.6	12.0	10.2
8	90	16.0	16.0	15.5	14.7	13.9	11.2
39	90	17.0	16.0	14.8	13.9	12.1	10.2
10 (DN 15 - 50)	37	25.0	25.0	22.7	21.0	19.8	18.5
17, 59, 60	C2	25.0	21.2	19.3	17.9	16.8	15.9
9, 17, 59, 60	40	25.0	20.6	18.7	17.1	15.8	14.8
80 (DN 15-40)	C2	25.0	21.2	19.3	17.9	-	-
80 (DN 50-65)	C2	16.0	16.0	16.0	16.0	-	-

* max. temperature 140 °C

RT = room temperature

All pressures are gauge pressures.

Pressure/temperature diagram:



Pressure rating:

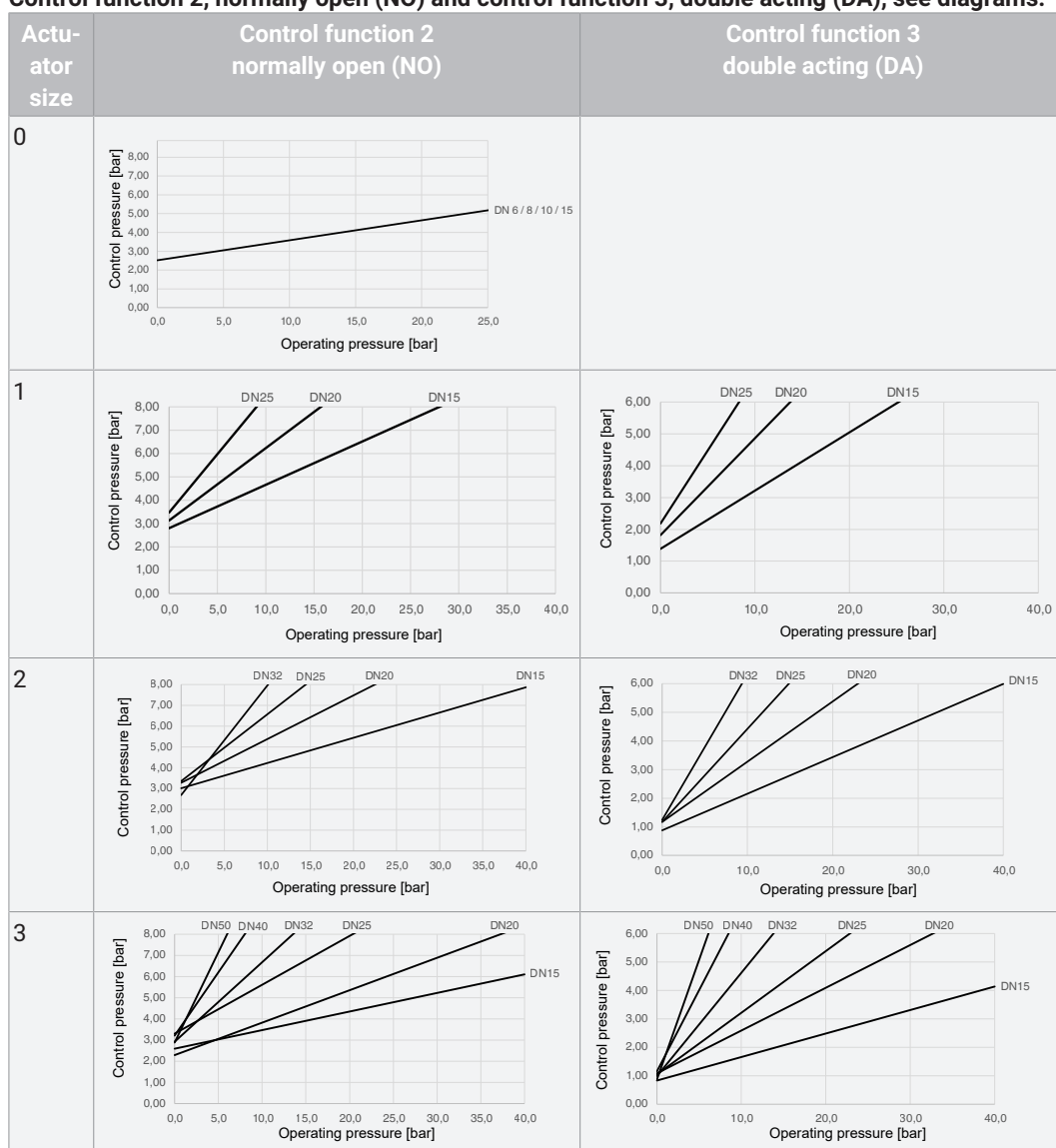
Body configuration (code)	Material (code)	Connection	Pressure rating
S	37		PN25
	C2		PN25
	C2	80	CL150
	40		PN25
G	37		PN40
	90		PN16
G	37	39	CL150
	90	39	CL150

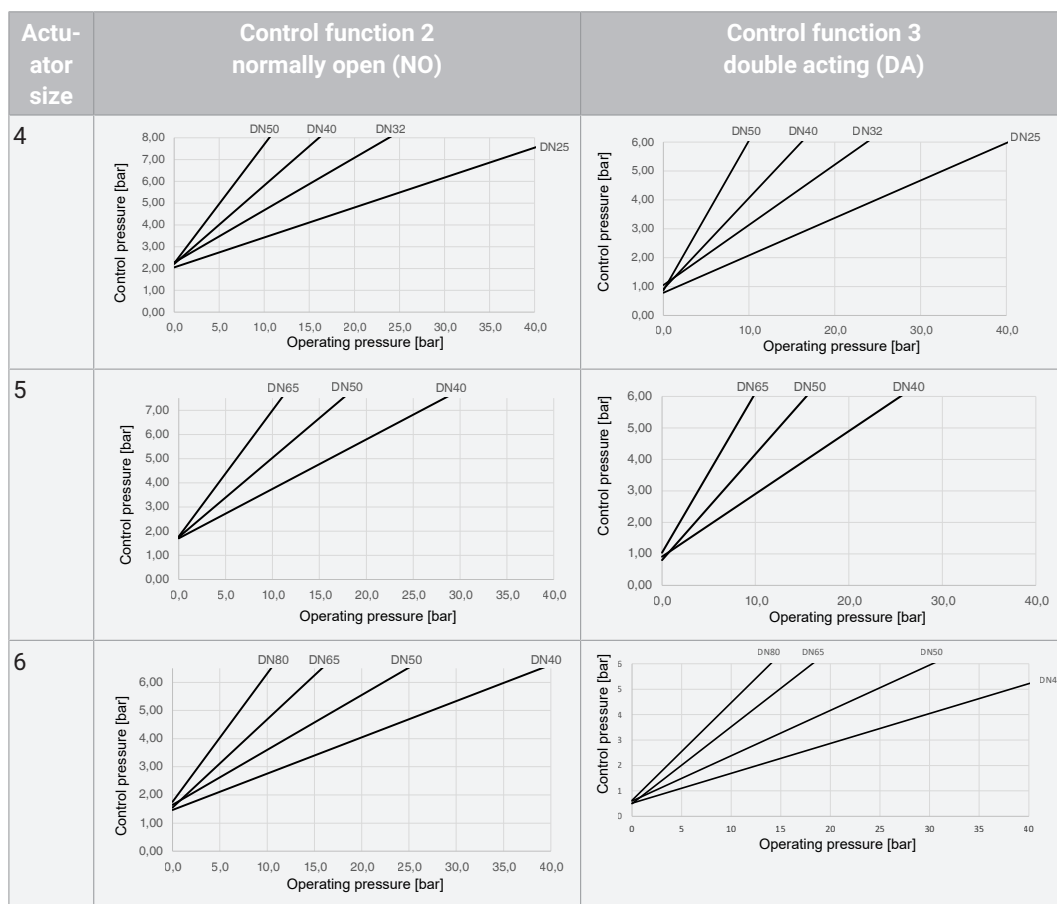
7.1.5 Control pressure**Control pressure:**

Flow direction: Under the seat

Control function 1, normally closed (NC): 4–8 bar

Control function 2, normally open (NO) and control function 3, double acting (DA), see diagrams:



Control pressure:

7.1.6 Product conformity

Food:	Only applies to material codes C2, 37, 40: Regulation (EC) No. 1935/2004 Regulation (EC) No. 10/2011 FDA	
Pressure Equipment Directive:	2014/68/EU	
Machinery Directive:	2006/42/EC	
Explosion protection:	ATEX (2014/34/EU), order code Special version X	
ATEX marking (only special function X):	⊕ Gas: II 2 G Ex h IIC T6 ... T3 Gb X	
	⊕ Dust: II -/2 D Ex h -/IIIC T185 °C -/Db X	
FMEDA:	Product description:	GEMÜ globe valve S40
	Device type:	A
	Fail safe function:	Due to the fail safe function, the straight seat or angle seat globe valve is placed in the closed position (with control function 1) or open position (with control function 2), or it seals tightly (with control function 1).
	HFT (hardware fault tolerance):	0
	MTTR (mean time to restoration):	24 hours

7.1.7 Mechanical data**Weight:****Actuator**

DN	Actuator size						
	0	1	2	3	4	5	6
6	0.35						
8	0.35	0.74	1.11	1.46	-	-	-
10	0.35	0.74	1.11	1.46	-	-	-
15	0.35	0.74	1.11	1.46	-	-	-
20		0.78	1.15	1.49	-	-	-
25		0.84	1.21	1.55	3.39	5.44	7.76
32		-	1.37	1.71	3.56	5.61	7.92
40		-	-	1.81	3.66	5.71	8.03
50		-	-	1.99	3.87	5.92	8.22
65		-	-	-	-	6.57	8.88
80		-	-	-	-	-	9.43

Weights in kg

Weight:**Angle seat body**

DN	Spigot	Threaded socket	Threaded spigot	Flange	Clamp
	Connection type code				
	17, 59, 60	1, 3C, 3D	9	8, 11	82, 86, 88
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	-	-
8	0.12	0.25	-	-	-
10	0.12	0.25	-	-	-
15	0.16	0.25	0.31	-	0.37
10	0.25	0.25	0.50	-	0.63
15	0.24	0.35	0.65	1.80	0.63
20	0.50	0.35	1.00	2.50	1.08
25	0.50	0.35	1.30	3.10	1.28
32	0.90	0.75	1.80	4.60	2.07
40	1.10	0.98	1.30	5.10	1.28
50	1.80	1.70	1.80	7.20	2.07
65	3.40	3.20	3.40	-	3.69
80	4.20	4.10	4.40	-	4.60

Weights in kg

Angle seat body, connection type 80, material C2

DN	Weight
15	0.35
20	0.30
25	0.50
32	1.00
40	1.40
50	2.40

Weights in kg

Globe valve body

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

Weights in kg

Filling volume:

Actuator size	DN	Control function	
		NC	NO
0	15	0.001	0.001
1	25	0.035	0.062
2	32	0.064	0.07
3	50	0.094	0.13
4	50	0.181	0.263
5	65	0.385	0.494
6	80	0.622	0.862

NC = Filling volume when open, NO = Filling volume when closed

The filling volume depends on the valve stroke. The values given in the table refer to the maximum value.

Filling volume in dm³

7.2 Open/Close valves

7.2.1 Operating pressure

Operating pressure of
body configuration S:

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

DN	Actuator version (code)						
	1G0	1G1	1G2	1G3	1G4	1G5	1G6
8	24.0	10.0	17.0	25.0	-	-	-
10	24.0	10.0	17.0	25.0	-	-	-
15	24.0	10.0	17.0	25.0	-	-	-
20	-	5.8	9.0	17.0	-	-	-
25	-	3.8	5.8	9.5	19.0	25.0	-
32	-	-	3.8	6.0	12.0	21.0	25.0
40	-	-	-	4.0	7.0	12.5	20.0
50	-	-	-	2.5	4.8	8.0	12.5
65	-	-	-	-	-	5.2	8.5
80	-	-	-	-	-	-	5.8

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

Also observe the pressure rating of the selected body configuration.

Control function 1 (NC) – flow direction G (under the seat) – spring set 1 (standard spring set) for
connection type 80 with material C2

DN	Actuator version (code)					
	1G1	1G2	1G3	1G4	1G5	1G6
15	10.0	17.0	19.0	-	-	-
20	10.0	17.0	19.0	-	-	-
25	5.8	9.0	17.0	-	-	-
40	-	3.8	6.0	12.0	19.0	-
50	-	-	4.0	7.0	12.5	19.0
65	-	-	2.5	4.8	8.0	12.5

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

Also observe the pressure rating of the selected body configuration.

Operating pressure of
body configuration G:

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

DN	Actuator version (code)					
	1G1	1G2	1G3	1G4	1G5	1G6
15	10.0	17.0	29.0	-	-	-
20	5.8	9.0	17.0	-	-	-
25	3.8	5.8	9.5	19.0	32.0	40.0
32	-	3.8	6.0	12.0	21.0	33.0
40	-	-	4.0	7.0	12.5	20.0
50	-	-	2.5	4.8	8.0	12.5

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

Also observe the pressure rating of the selected body configuration.

7.2.2 Kv values**Kv values for Open/Close valves:****Angle seat body (code S)**

DN	Connection type (code)	Actuator version						
		1G0	1G1	1G2	1G3	1G4	1G5	1G6
8	1	1.8	-	-	-	-	-	-
	17	1.8	-	-	-	-	-	-
	60	1.8	3.5	4.5	-	-	-	-
10	1	1.8	-	-	-	-	-	-
	17	1.8	-	-	-	-	-	-
	60	1.8	3.5	4.5	-	-	-	-
15	1	1.8	5.4	5.4	5.4	-	-	-
	17	1.8	5.5	5.5	5.5	-	-	-
	60	1.8	5.5	5.5	5.5	-	-	-
20	1	-	8.5	8.6	8.6	-	-	-
	17	-	9.6	10.2	10.2	-	-	-
	60	-	10.4	11.3	11.3	-	-	-
25	1	-	13.1	14.2	15.2	15.2	15.2	15.2
	17	-	14.5	14.6	17.9	17.9	17.9	17.9
	60	-	14.6	15.8	20.5	20.5	20.5	20.5
32	1	-	-	20.9	23.0	23.0	23.0	23.0
	17	-	-	26.2	28.5	28.5	28.5	28.5
	60	-	-	26.5	29.0	29.0	29.0	29.0
40	1	-	-	-	35.9	43.0	43.0	43.0
	17	-	-	-	36.0	41.2	41.2	41.2
	60	-	-	-	42.6	46.5	46.5	46.5
50	1	-	-	-	56.0	58.0	63.5	63.5
	17	-	-	-	52.0	58.0	63.5	63.5
	60	-	-	-	53.2	61.0	66.0	66.0
65	1	-	-	-	-	-	105.0	105.0
	17	-	-	-	-	-	100.0	100.0
	60	-	-	-	-	-	95.0	95.0
80	1	-	-	-	-	-	-	148.0
	17	-	-	-	-	-	-	90.0
	60	-	-	-	-	-	-	88.0

Angle seat body (code S) for connection type code 80, material code C2

DN	Connection type (code)	Actuator version					
		1G1	1G2	1G3	1G4	1G5	1G6
15	80	2.1	2.1	2.1	-	-	-
20		4.4	4.4	4.4	-	-	-
25		9.3	9.7	9.7	-	-	-
40		-	20.0	23.0	23.0	23.0	-
50		-	-	35.0	39.5	44.0	37.0
65		-	-	34.5	41.0	48.0	48.0

Kv values for Open/Close valves:**Straight seat body (code G)**

DN	Connection type (code)	Actuator version					
		1G1	1G2	1G3	1G4	1G5	1G6
15	8, 11, 39, 48	4.6	4.6	4.6	-	-	-
20	8, 11, 39, 48	8.0	8.0	8.0	-	-	-
25	8, 11, 39, 48	13.0	13.0	13.0	13.0	13.0	13.0
32	8, 11, 39, 48	-	22.0	22.0	22.0	22.0	22.0
40	8, 11, 39, 48	-	35.0	35.0	35.0	35.0	35.0
50	8, 11, 39, 48	-	50.0	50.0	50.0	50.0	50.0

Kv values in m³/h

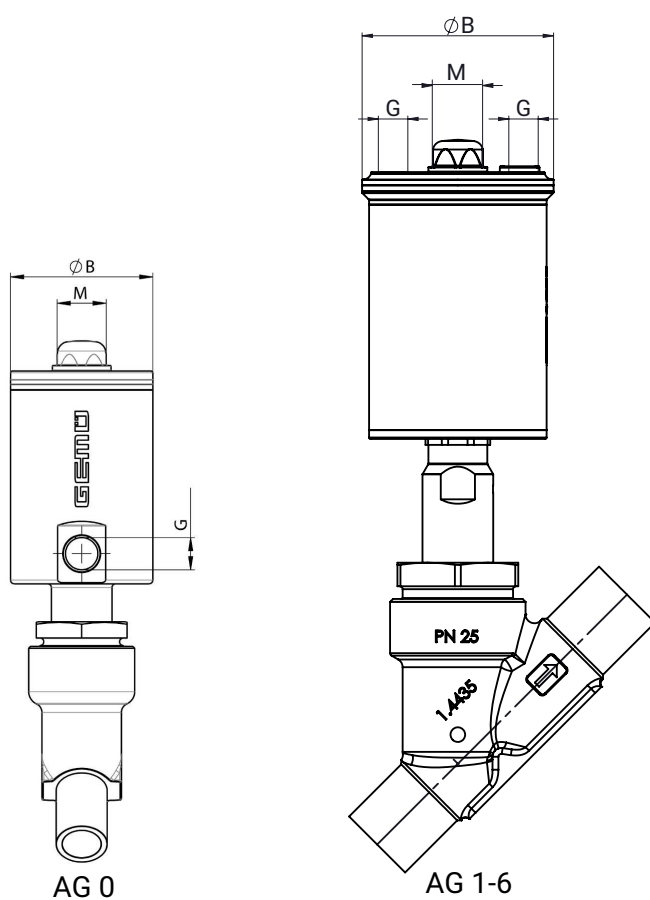
Kv values determined in accordance with DIN EN 60534. The Kv value specifications refer to control function 1 (NC). For angle seat body (code S) body material 37, for straight seat body (code G) body material 37 and 90. Kv values for other product configurations (e.g. other connection types or body materials) may differ.

7.2.3 Leakage rate**Leakage rate:****Open/Close valve**

Leakage rate A to P11/P12 EN 12266-1

8 Dimensions

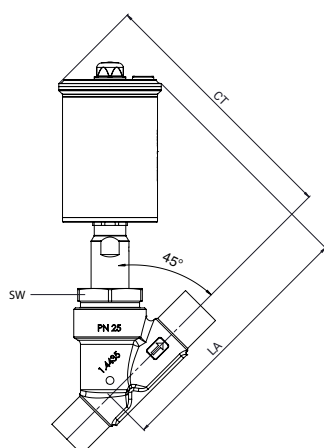
8.1 Actuator dimensions



Actuator size	$\varnothing B$	M	G
0	36.7 mm	M 12 x 1	G 1/8
1	50.8 mm	M 12 x 1	G 1/8
2	65 mm	M 16 x 1	G 1/8
3	70 mm	M 16 x 1	G 1/8
4	90.0 mm	M 26 x 1.5	G 1/4
5	115.0 mm	M 26 x 1.5	G 1/4
6	140.0 mm	M 26 x 1.5	G 1/4

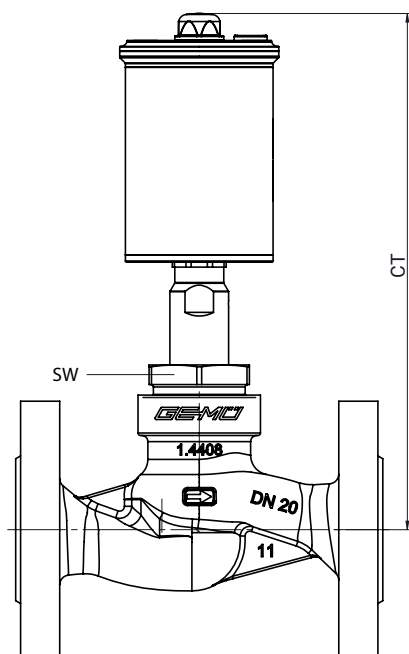
8.2 Installation dimensions

8.2.1 Valve with angle seat body



DN	WAF	Actuator size 0	Actuator size 1	Actuator size 2	Actuator size 3	Actuator size 4	Actuator size 5	Actuator size 6
		CT/LA	CT/LA	CT/LA	CT/LA	CT/LA	CT/LA	CT/LA
6	24	88.9	-	-	-	-	-	-
8	24	88.9	-	-	-	-	-	-
10	24	88.9	-	-	-	-	-	-
15	24	88.9	-	-	-	-	-	-
8	36	-	-	-	-	-	-	-
10	36	-	138.0	155.0	160.5	-	-	-
15	36	-	142.0	158.5	163.6	-	-	-
20	41	-	146.5	164.0	196.5	-	-	-
25	46	-	151.3	168.2	173.3	221.1	243.3	-
32	55	-	-	175.7	180.7	228.5	250.7	264.8
40	60	-	-	-	186.4	234.2	256.4	270.5
50	55	-	-	-	194.7	241.8	264.0	278.0
65	75	-	-	-	-	-	278.8	292.9
80	75	-	-	-	-	-	-	307.7

Dimensions in mm

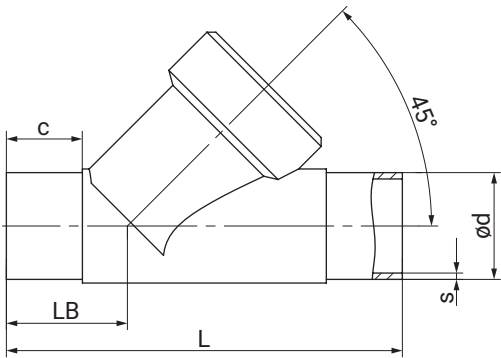
8.2.2 Valve with straight seat body

DN	WAF	Actuator size 1	Actuator size 2	Actuator size 3	Actuator size 4	Actuator size 5	Actuator size 6
		CT/LA	CT/LA	CT/LA	CT/LA	CT/LA	CT/LA
15	36	178.5	197.8	203.3			
20	41	185.9	205.0	210.6			
25	46	196.5	215.6	221.0	285.3	304.3	311.8
32	55	-	220.0	225.6	289.8	308.8	316.3
40	60	-	-	237.1	301.3	320.3	327.8
50	55	-	-	245.1	328.0	328.0	335.5

Dimensions in mm

8.3 Body dimensions

8.3.1 Spigot DIN/EN/ISO/ASME (code 17, 59, 60), actuator size 0



Connection type spigot DIN/EN/ISO/ASME (codes 17, 59, 60), forged material (code 40) ¹⁾

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

Dimensions in mm

1) **Valve body material**

Code 40: 1.4435 (F316L), forged body

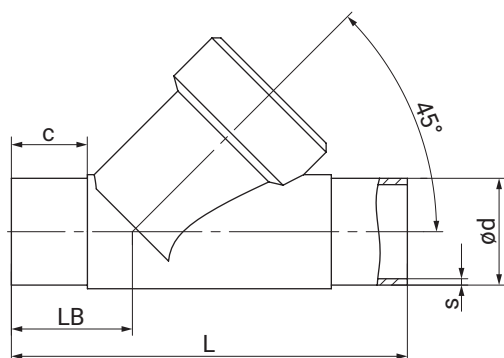
2) **Connection type**

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

8.3.2 Spigot EN/ISO/ANSI/ASME/SMS (code 17, 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"	18.0	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)¹⁾, investment casting material (code 37)²⁾

Connection type Spigot ASME/ANSI (code 37, 59) , investment casting material (code 37)									
DN	NPS	c (min)		dia. d		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

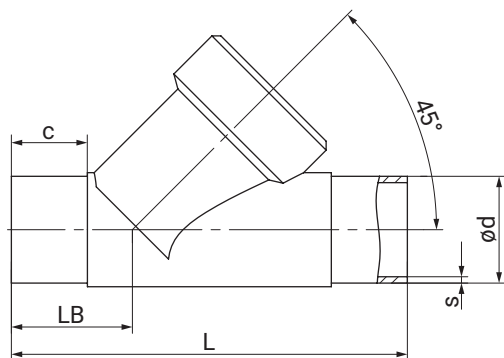
Code 59: Spigot ASME BPE/DIN EN 10357 series C (from 2022 issue)/DIN 11866 series C

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

8.3.3 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)			dia. d			L	LB	s		
		Connection type								Connection type		
		17	59	60	17	59	60			17	59	60
8	1/4"	-	-	20	-	-	13.5	80.0	35.5	-	-	1.6
10	3/8"	20	-	20	13.0	-	17.2	100.0	35.5	1.5	-	1.6
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
65	2½"	52.5	58	52.5	70.0	63.50	76.1	290.0	96.0	2.0	1.65	2.0
80	3"	50.2	58	46.82	85.0	76.20	88.9	310.0	95.0	2.0	1.65	2.3

Dimensions in mm

1) Connection type

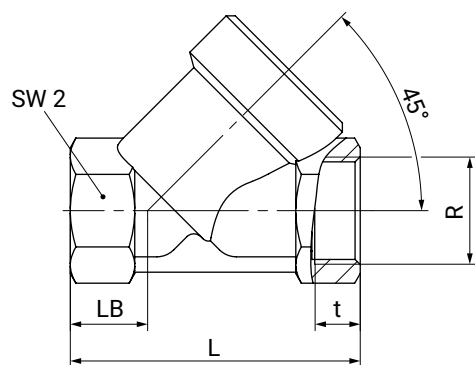
Code 17: Spigot EN 10357 series A/DIN 11866 series A, formerly DIN 11850 series 2

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

8.3.4 Threaded socket DIN/NPT body configuration D (code 1, 3C, 3D) actuator size 0**Connection type threaded socket DIN/NPT (code 1, 3C, 3D)¹⁾, investment casting material (code 37)²⁾**

Connection type threaded socket BDN/NPT (code 1, 3C, 3D) ; investment casting material (code 37)												
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

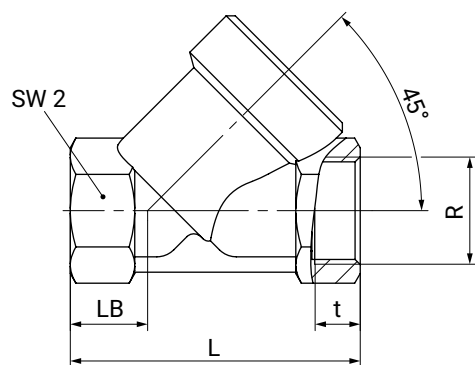
Code 3C: Threaded socket Rc ISO 7-1, EN 10226-2, JIS B 0203, BS 21, end-to-end dimension ETE DIN 3202-4 series M8

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

8.3.5 Threaded socket DIN/Rc/NPT body configuration S (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
10	3/8"	65.0	16.5	G 3/8	27	11.4
15	1/2"	65.0	16.5	G 1/2	27	15.0
20	3/4"	75.0	17.5	G 3/4	32	16.3
25	1"	90.0	24.0	G 1	41	19.1
32	1 1/4"	110.0	33.0	G 1 1/4	50	21.4
40	1 1/2"	120.0	30.0	G 1 1/2	55	21.4
50	2"	150.0	40.0	G 2	70	25.7
65	2 1/2"	190.0	46.0	G 2 1/2	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

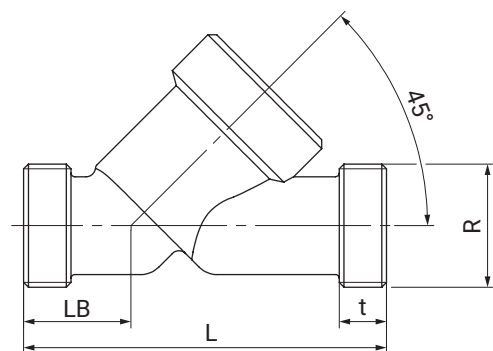
Code 1: Threaded socket DIN ISO 228

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

8.3.6 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

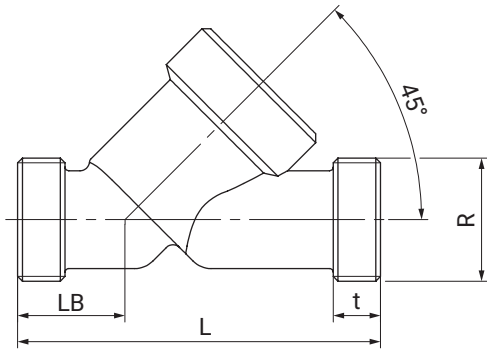
Code 9: Threaded spigot DIN ISO 228

2) Valve body material

Code 37: 1.4408, investment casting

Code 40: 1.4435 (F316L), forged body

8.3.7 Threaded spigot DIN (code 9)

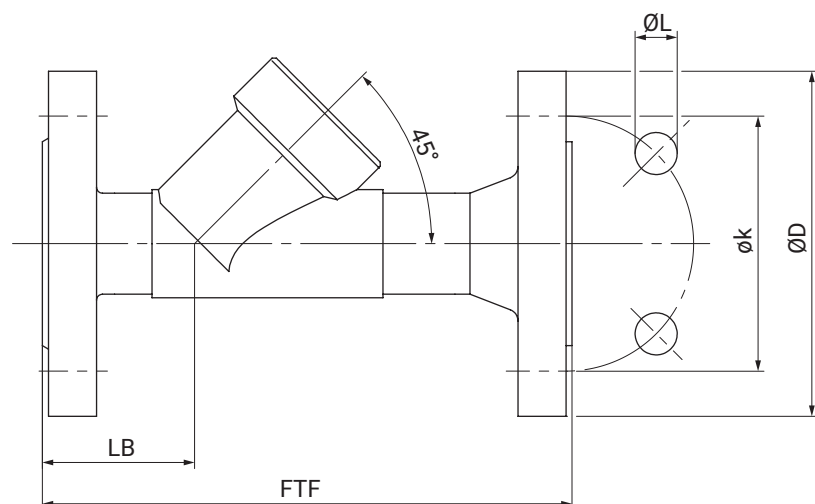


Connection type threaded spigot DIN (code 9)¹⁾, investment casting material (code 37)²⁾

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

Dimensions in mm

- 1) **Connection type**
Code 9: Threaded spigot DIN ISO 228
- 2) **Valve body material**
Code 37: 1.4408, investment casting

8.3.8 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

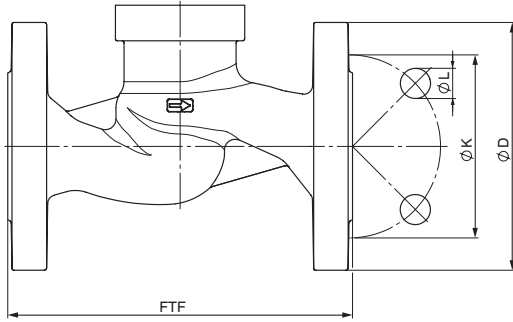
n = number of bolts

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

8.3.9 Flange EN (code 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

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

Dimensions in mm

n = number of bolts

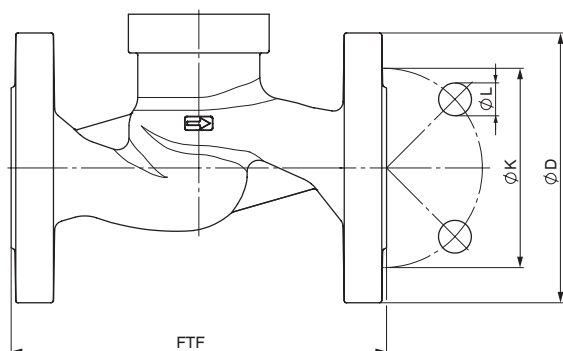
1) Connection type

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)

8.3.10 Flange EN (code 11, 48)

DN 15–50 (code 48)

DN 40, 50 (code 11)

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

Connection type flange, length EN 558 (code 48) ¹⁾, 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

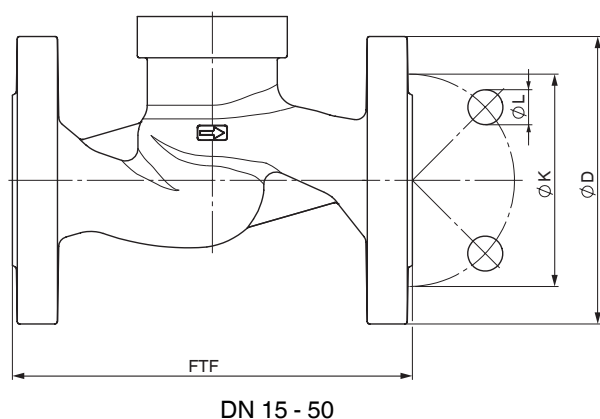
Code 11: Flange EN 1092, PN 40, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752, basic series 1

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

8.3.11 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

Dimensions in mm

n = number of bolts

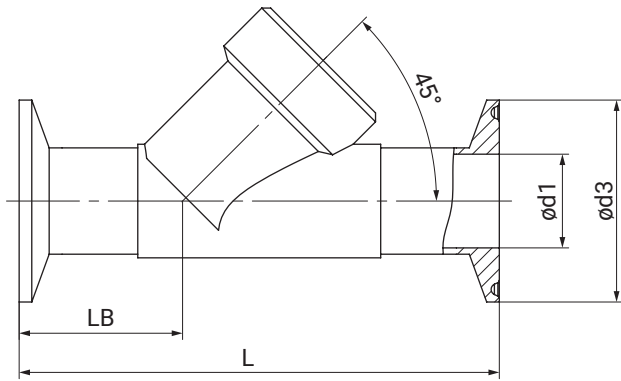
1) Connection type

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)

8.3.12 Clamp DIN/ASME (code 82, 86, 88), actuator size 1, 2, 3, 4, 5, 6**Connection type clamp DIN/ASME (code 82, 86, 88)¹⁾, investment casting material (code C2)²⁾**

DN	NPS	ød1			ød3			L	LB
		Connection type			Connection type				
		82	86	88	82	86	88		
8	1/4"	10.3	-	-	25.0	-	-	130.0	47.5
10	3/8"	14.0	10.0	-	25.0	34.0	-	130.0	47.5
15	1/2"	18.1	16.0	9.40	50.5	34.0	25.0	130.0	47.5
20	3/4"	23.7	20.0	15.75	50.5	34.0	25.0	150.0	54.0
25	1"	29.7	26.0	22.10	50.5	50.5	50.5	160.0	56.0
32	1¼"	38.4	32.0	-	64.0	50.5	-	180.0	62.0
40	1½"	44.3	38.0	34.80	64.0	50.5	50.5	200.0	67.0
50	2"	56.3	50.0	47.50	77.5	64.0	64.0	230.0	73.0
65	2½"	72.1	66.0	60.20	91.0	91.0	77.5	290.0	120.0
80	3"	84.3	81.0	72.90	106.0	106.0	91.0	310.0	119.0

Dimensions in mm

1) Connection type

Code 82: Clamp DIN 32676 series B, face-to-face dimension FTF EN 558 series 1

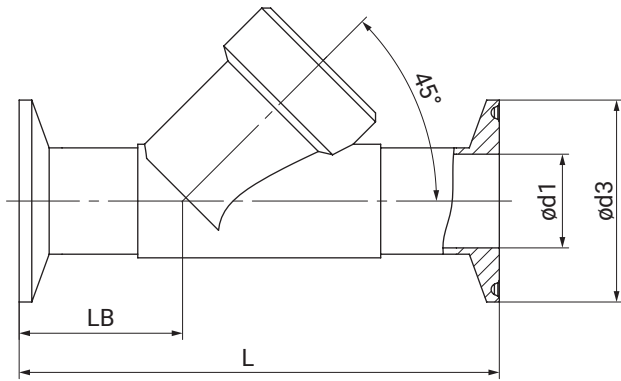
Code 86: Clamp DIN 32676 series A, face-to-face dimension FTF EN 558 series 1

Code 88: Clamp ASME BPE, for pipe ASME BPE, face-to-face dimension FTF EN 558 series 1

2) Valve body material

Code C2: 1.4435, investment casting

8.3.13 Clamp ASME (code 80)



Connection type clamp ASME (code 80)¹⁾, investment casting material (code C2)²⁾

DN	NPS	LB	L	ø d1	ø d3
15	1/2"	28.5	88.9	9.4	25.0
20	3/4"	35.0	101.6	15.75	25.0
25	1"	33.0	114.3	22.10	50.5
40	1 1/2"	40.0	139.7	34.80	50.5
50	2"	44.0	158.8	47.50	64.0
65	2 1/2"	54.3	193.8	60.20	77.5

Dimensions in mm

1) **Connection type**

Code 80: Clamp ASME BPE, face-to-face dimension FTF ASME BPE

2) **Valve body material**

Code C2: 1.4435, investment casting

9 Manufacturer's information

9.1 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.

9.2 Packaging

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

9.3 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.

9.4 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.

10 Installation in piping

10.1 Preparing for installation

WARNING



Risk of crushing due to moving parts when the valve is not installed!

- Upper limbs may get into the valve body openings or between the actuator and valve plug while working on the valve.
- Ensure that the valve is in the respective end position (closed for NC or open for NO).
- Do not reach into the crushing area through the valve body openings.
- When removed, do not reach between the actuator and valve plug when the valve is moving.

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.

WARNING



Risk of injury due to moving parts when the valve is not installed!

- The valve spindle and valve plug are moving parts that are moved with high force. This may lead to injuries when working on the valve.
- Watch out for moving parts when operating the actuator.
- Do not reach between the valve plug, valve spindle and modified plant components.
- Have servicing and maintenance work carried out by trained personnel only.

NOTICE

Use as a step!

- Damage to the product.
- 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 that the product is suitable for the respective application.
 2. Check the technical data of the product and the materials.
 3. Keep appropriate tools ready.
 4. Wear appropriate protective gear in accordance with 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 the plant or plant component against recommissioning.
 9. Depressurize the plant or plant component.
 10. Completely drain the plant or plant component and allow it to 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 mount the product between matching aligned pipes (see following chapters).
 14. Please note the flow direction (see chapter "Flow direction").

10.2 Installation position

The installation position of the product is optional.

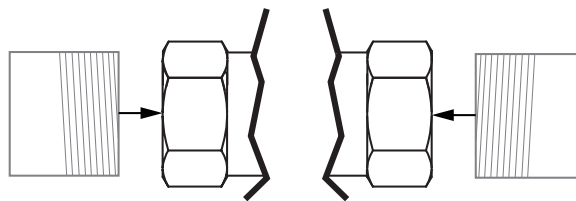
10.3 Installation with threaded sockets

Fig. 1: Threaded socket

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 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.

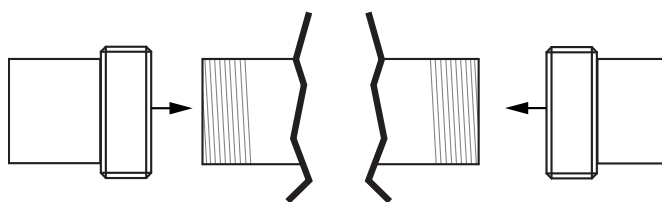
10.4 Installation with threaded spigots

Fig. 2: 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.

10.5 Installation with butt weld spigots

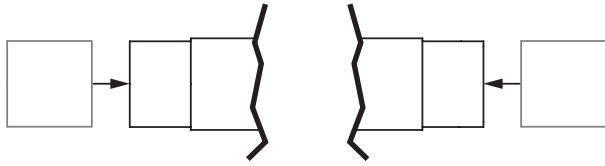


Fig. 3: Butt weld spigots

1. Carry out preparations for installation (see chapter "Preparing for installation").
2. Adhere to good welding practices!
3. Disassemble the actuator with the diaphragm before welding in the valve body (see "Removing the actuator" chapter).
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 with diaphragm (see "Mounting the actuator" chapter).
7. Re-attach or reactivate all safety and protective devices.
8. Flush the system.

10.6 Installation with flanged connection

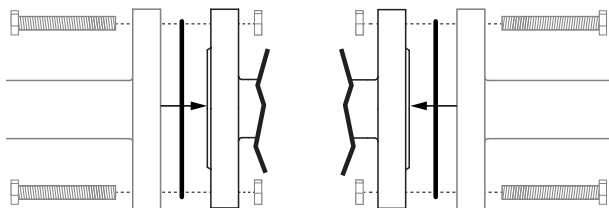


Fig. 4: Flanged connection

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

10.7 Installation with clamp connections

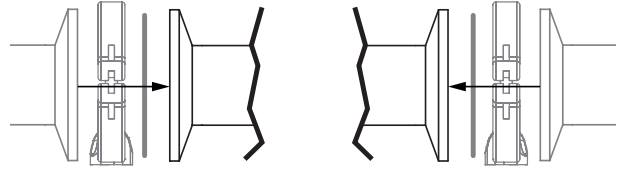


Fig. 5: Clamp connection

NOTICE

Gasket and clamp!

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

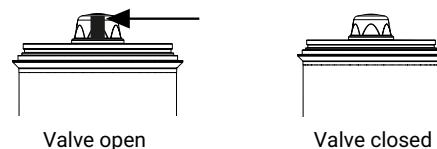
1. Keep ready gasket and clamp.
2. Carry out preparation for installation (see chapter "Preparing for installation").
3. Insert the corresponding gasket between the body of the product and the pipe connection.
4. Connect the gasket between the body of the product and the pipe connection using clamps.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

10.8 After the installation

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

10.9 Operation

Optical position indicator



Valve open

Valve closed

11 Pneumatic connections

11.1 Control function

The following control functions are available:

Control function 1

Normally closed (NC):

Valve resting position: Closed by spring force. Activation of the actuator (connector 1) opens the valve. When the actuator is vented, the valve is closed by spring force.

Control function 2

Normally open (NO):

Valve resting position: Opened by spring force. Activation of the actuator (connector 2) closes the valve. When the actuator is vented, the valve is opened by spring force.

Control function 3

Double acting (DA):

Valve resting position: No defined normal position. The valve is opened and closed by activating the respective control medium connectors (connector 1: Open/connector 2: Close).

Control function	Connections	
	1	2
1 (NC)	+	-
2 (NO)	-	+
3 (DA)	+	+

+ = available / - = not available
(see figure for connectors 1/2)

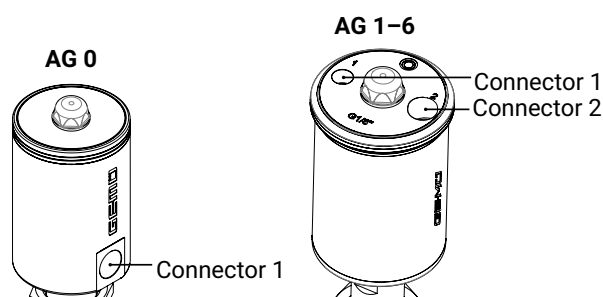


Fig. 6: GEMÜ S40

11.2 Connecting the control medium

Control medium connectors

Actuator size	Connection
0-3	G 1/8
4-6	G 1/4

1. Use suitable connectors.
2. Connect the control medium lines with the connecting element, ensuring it is tension-free and without any bends or knots.

12 Commissioning

1. Check the tightness and the function of the product (close and reopen the product).
2. Flush the piping system of new plant and after repair work (the product must be fully open).
 - ⇒ Harmful foreign matter has been removed.
 - ⇒ The product is ready for use.
3. Commission the product.

13 Operation

⚠ WARNING



Danger of burning from hot surfaces!

- The valve housing and valve body can become hot during operation and cause burns.
- Allow the valve housing and valve body to cool down before working on the valve.
- Wear appropriate protective gloves.

⚠ CAUTION



Risk of injury due to components being flung away!

- In the event of excessive control pressure, components of the actuator may be flung away and cause injuries.
- Only actuate the valve with the maximum control pressures stated in the operating instructions.

NOTICE

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).

Operate the product according to the control function (see also chapter "Pneumatic connections").

13.1 Control function 1

In its resting position, the product is closed by spring force.

1. Activate the actuator via control medium connector 1.
 - ⇒ The product opens.
2. Vent the actuator via control medium connector 1.
 - ⇒ The product closes.

13.2 Control function 2

In its resting position, the product is opened by spring force.

1. Activate the actuator via control medium connector 2.
 - ⇒ The product closes.
2. Vent the actuator via control medium connector 2.
 - ⇒ The product opens.

13.3 Control function 3

In the resting position, the product has no defined normal position.

1. Activate the actuator via control medium connector 1.
 - ⇒ The product opens.
2. Activate the actuator via control medium connector 2.
 - ⇒ The product closes.

14 Troubleshooting

WARNING



Hazardous media may escape if the seal/gland packaging is defective!

- ▶ Risk of injury from contact with media that are harmful to health!
- Replace the seal/gland packing once they have reached their service life limits.
- Depending on the working medium used, wear suitable protective gear while working on the product.

WARNING



The ambient temperature must be complied with.

- ▶ Risk of damage and functional impairment of the product.
 - The product must only be used in environments in which the specified ambient temperatures are complied with.
 - Check the technical condition and function of the valve prior to commissioning and during the entire term of use. Carry out checks regularly and determine the check intervals in accordance with the conditions of use and/or the regulatory codes and provisions applicable for this application.
- ⇒ The gland packing is a wearing part. Fit the gland packing suitable for the product (suitable for medium, medium concentration, temperature and pressure).

Error	Error cause	Troubleshooting
Control medium escaping from connector 2* for control function NC (see chapter "Control functions")	Piston seal leaking	Replace the actuator and distance piece and check control medium for impurities.
Control medium escaping from leak detection hole	Spindle seal leaking	Replace the actuator and distance piece and check control medium for impurities.
Working medium escaping from leak detection hole	Gland packing faulty	Replace distance piece
The product does not open or does not open fully	Control pressure too low (for control function NC)	Operate the product with the control pressure specified in the datasheet
	Pilot valve faulty	Check and replace pilot valve
	Control medium not connected	Connect control medium
	Spindle seal or piston seal leaking	Replace the actuator and check control medium for impurities
	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

Error	Error cause	Troubleshooting
	Foreign matter between seat seal and valve body	Remove the actuator, remove foreign matter, check seat seal and valve body for potential damage, replace the actuator if necessary
	Seat seal faulty	Check seat seal for damage and replace seat seal if necessary
	Actuator spring faulty (for control function NC)	Replace actuator
	Valve body leaking or damaged	Check valve body for damage, replace valve if necessary
The product is leaking between the distance piece and valve body	Union nut loose	Retighten union nut
	Sealing washer faulty	Check sealing washer and associated sealing surfaces for potential damage and replace parts if necessary
Connection between valve body and piping leaking	Incorrect installation	Check installation of valve body in piping
Valve body leaking	Valve body damaged or corroded	Check valve body for potential damage, replace valve body if necessary

15 Inspection and maintenance

WARNING



Risk of crushing due to moving parts when the valve is not installed!

- ▶ Upper limbs may get into the valve body openings or between the actuator and valve plug while working on the valve.
- Ensure that the valve is in the respective end position (closed for NC or open for NO).
- Do not reach into the crushing area through the valve body openings.
- When removed, do not reach between the actuator and valve plug when the valve is moving.

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



Risk of injury due to moving parts when the valve is not installed!

- ▶ The valve spindle and valve plug are moving parts that are moved with high force. This may lead to injuries when working on the valve.
- Watch out for moving parts when operating the actuator.
- Do not reach between the valve plug, valve spindle and modified plant components.
- Have servicing and maintenance work carried out by trained personnel only.

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.

1. Wear appropriate protective gear as specified in the plant operator's guidelines.
2. Shut off plant or plant component.
3. Secure against recommissioning.
4. Depressurize the plant or plant component.

The operator must carry out regular visual examination of the valves dependent on the operating conditions and the potential danger in order to prevent leakage and damage. The valve also must be disassembled and checked for wear in corresponding intervals.

15.1 Components

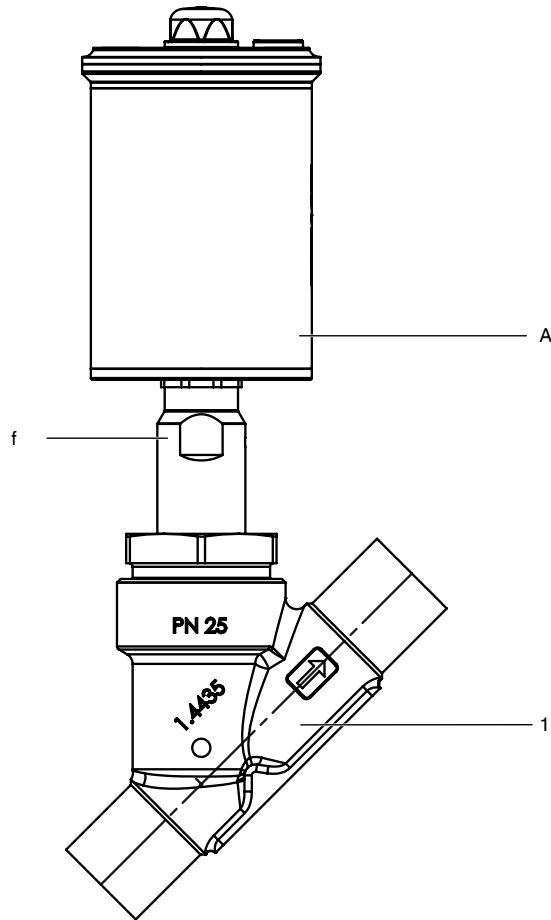


Fig. 7: GEMÜ S40 components, valve assembly

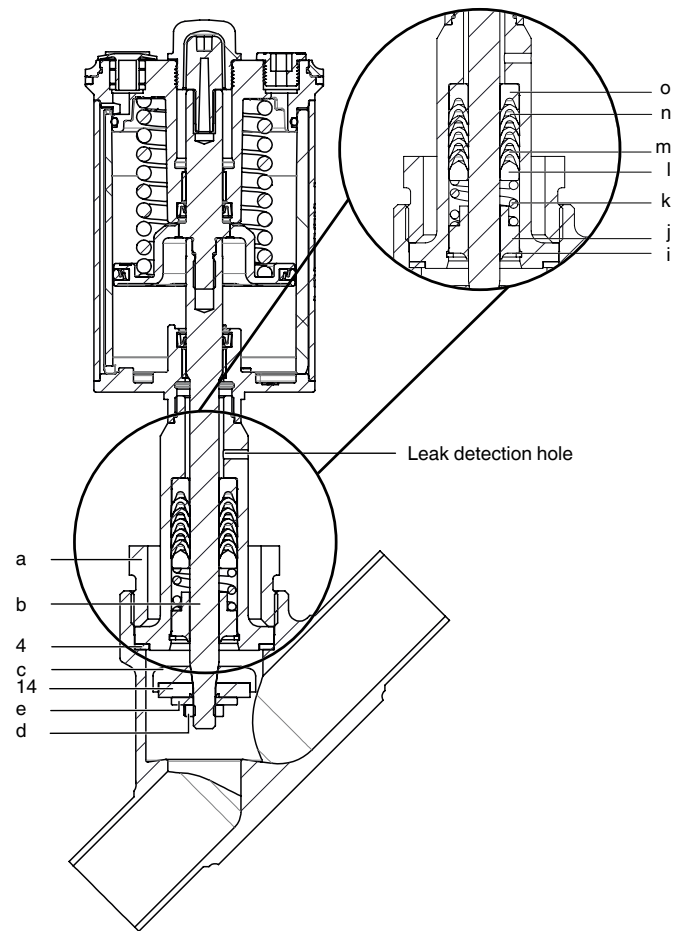


Fig. 8: GEMÜ S40 components, spare parts

Item	Name	Quantity	Spare parts kits*
1	Valve body	1	K5xx
4	Sealing washer	1	SVS; KIF; AS40
14	Seat seal	1	SVS; KIF; AS40
A	Actuator	1	AS40
a	Union nut	1	AS40
b	Valve spindle	1	KIF; AS40
c	Valve plug	1	KIF; AS40
d	Hexagon nut	1	KIF; AS40
e	Retaining washer	1	KIF; AS40
f	Distance piece	1	KIF; AS40
i	Circlip	1	SPK; KIF; AS40
j	Guide bush	1	SPK; KIF; AS40
k	Compression spring	1	SPK; KIF; AS40
l	Support ring	1	SPK; KIF; AS40
m	Chevron packing, black	2	SPK; KIF; AS40
n	Chevron packing, white	3	SPK; KIF; AS40
o	Pressure ring	1	SPK; KIF; AS40

* KIF kit and SPK kit can only be replaced for actuator sizes 1–6

15.2 Removing the distance piece

WARNING



Risk of crushing due to moving parts when the valve is not installed!

- ▶ Upper limbs may get into the valve body openings or between the actuator and valve plug while working on the valve.
- Ensure that the valve is in the respective end position (closed for NC or open for NO).
- Do not reach into the crushing area through the valve body openings.
- When removed, do not reach between the actuator and valve plug when the valve is moving.

1. Move the actuator **A** to the open position.
2. Undo union nut **a**.
3. Remove the distance piece **f** from the valve body **1**.
4. Disconnect actuator **A** from the control medium lines.
5. Clean all parts of contamination (do not damage parts during cleaning).

15.3 Replacing the SVS spare parts kits

1. Remove (see "Removing the distance piece", page 45) the distance piece **f**.
2. Remove the sealing washer **4** from the valve body **1**.
3. Loosen the hexagon nut **d** on the valve spindle **b**. Secure the valve spindle **b** on the double flat present; do not damage or rotate the spindle surface.
4. Remove the retaining washer **e**, seat seal **14** and valve plug **c**.
5. Remove the seat seal **14** from the valve plug **c** using an appropriate tool.
6. Clean all parts of contamination (do not damage parts during cleaning).
7. Place a new seat seal **14** in valve plug **c**.
8. Place the valve plug **c** together with the seat seal **14** on the valve spindle **b**. Then apply the retaining washer **e** onto the thread of the valve spindle **b**.
9. Apply appropriate thread locking compound on the thread of valve spindle **b**.
10. Secure the valve spindle **b** with a hexagon nut **d**; secure the valve spindle **b** on the double flat present; do not damage or rotate the spindle surface.
Torques: M6 = 6 Nm / M8 = 8 Nm
11. Insert new sealing washer **4** in valve body **1**.
12. Install (see "Fitting the distance piece", page 46) the distance piece **f**.

15.4 Replacing the KIF spare parts kits

1. Remove (see "Removing the distance piece", page 45) the distance piece **f**.
2. Remove the sealing washer **4** from the valve body **1**.
3. Remove the actuator **A** from the distance piece **f** by counterholding the spindle surfaces.
4. Remove the valve spindle **b** using the spindle surface.
5. Remove the union nut **a** and check it for damage.
6. Install the new KIF kit with union nut **a** in the actuator **A**. First secure the valve spindle **b**, and then the distance piece **f** to the threads provided.
Torques for bolting the distance piece **f** and actuator **A**:
M16x1 = 38 Nm / M26x1.5 = 80 Nm
Torques for bolting valve spindle **b** and hexagon nut **d**: M6 = 6 Nm / M8 = 8 Nm
7. Insert a new sealing washer **4** in valve body **1**. Check the sealing points for damage and contaminants.
8. Fit (see "Fitting the distance piece", page 46) the actuator **A**.

15.5 Replacing the SPK spare parts kits

1. Remove (see "Removing the distance piece", page 45) the distance piece **f**.
2. Remove the sealing washer **4** from the valve body **1**.
3. Remove the actuator **A** from the distance piece **f** by counterholding the spindle surfaces.
4. Remove the valve spindle **b** using the spindle surface.
5. Remove the union nut **a** and check it for damage.
6. Loosen the hexagon nut **d** on the valve spindle **b**. Secure the valve spindle **b** on the double flat present; do not damage or rotate the spindle surface.
7. Remove the retaining washer **e**, seat seal **14** and valve plug **c**.
8. Remove the seat seal **14** from the valve plug **c** using an appropriate tool.
9. Clean all parts of contamination (do not damage the parts during cleaning).
10. Remove the circlip **i**.
11. Push the valve spindle **b** including all seals from below and out of the distance piece **f**.
12. Remove seals from the valve spindle **b**.
13. Apply the valve spindle **b** with the SPK kit onto the valve spindle **b** in the order listed below. Lubricate new chevron packings using appropriate lubricant prior to installation (GEMÜ recommends Tunap TUNGREASE ST/3).
 1. Pressure ring **o**
 2. Chevron packing, white **n**
 3. Chevron packing, black **m**
 4. Chevron packing, white **n**
 5. Chevron packing, black **m**
 6. Chevron packing, white **n**

7. Support ring **l**
8. Compression ring **k**
9. Guide bush **j**
14. Push the valve spindle **b** including seals from below into the distance piece **f**.
15. Lock seals in place with a circlip **i**.
16. Place a new seat seal **14** in valve plug **c**.
17. Place the valve plug **c** together with the seat seal **14** on the valve spindle **b**. Then apply the retaining washer **e** onto the thread of the valve spindle **b**.
18. Apply appropriate thread locking compound on the thread of valve spindle **b**.
19. Secure the valve spindle **b** with a hexagon nut **d**. Secure the valve spindle **b** on the double flat present; do not damage or rotate the spindle surface.
Torques: M6 = 6 Nm / M8 = 8 Nm
20. Insert new sealing washer **4** in valve body **1**.
21. Fit (see "Fitting the distance piece", page 46) the actuator **A**.

15.6 Fitting the distance piece

 **WARNING**



Risk of crushing due to moving parts when the valve is not installed!

- ▶ Upper limbs may get into the valve body openings or between the actuator and valve plug while working on the valve.
- Ensure that the valve is in the respective end position (closed for NC or open for NO).
- Do not reach into the crushing area through the valve body openings.
- When removed, do not reach between the actuator and valve plug when the valve is moving.

1. Move the actuator **A** to the open position.
2. Lubricate the thread of union nut **a** using a suitable lubricant.
3. Tighten the union nut **a** with an open-end wrench (for torques, see table).
4. Move the actuator **A** to the closed position.
5. With the valve fully assembled, check the function and tightness.

Nominal size [DN]	Actuator size	Torque [Nm]
DN 6	0	35
DN 8	0	35
DN 10	0	35
DN 15	0	35
DN 8	1, 2, 3	90
DN 10	1, 2, 3	90
DN 15	1, 2, 3	90

Nominal size [DN]	Actuator size	Torque [Nm]
DN 20	1, 2, 3	100
DN 25	1, 2, 3, 4, 5	120
DN 32	2, 3, 4, 5, 6	120
DN 40	3, 4, 5, 6	150
DN 50	3, 4, 5, 6	200
DN 65	5, 6	260
DN 80	6	280

16 Removal from piping

1. Remove in reverse order to installation.
2. Deactivate the control medium.
3. Disconnect the control medium line(s).
4. Disassemble the product. Observe warning notes and safety information.

17 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.

18 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.

19 EU Declaration of Incorporation

Version 1.0

GEMÜ

Original EU-Einbauerklärung

EU Declaration of Incorporation

Wir, die Firma

We, the company

GEMÜ Gebr. Müller Apparatebau GmbH & Co. KG
Fritz-Müller-Straße 6-8
74653 Ingelfingen
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 S40**Product:** GEMÜ S40**Produktname:** Pneumatisch betätigtes Sitzventil**Product name:** Pneumatically operated globe valve

Die unvollständige Maschine darf erst dann in Betrieb genommen werden, wenn gegebenenfalls festgestellt wurde, dass die Maschine, in die die unvollständige Maschine eingebaut werden soll, den Bestimmungen der Maschinenrichtlinie 2006/42/EG entspricht.

The partly completed machinery may be commissioned only if it has been determined, if necessary, that the machinery into which the partly completed machinery is to be installed meets the provisions of the Machinery Directive 2006/42/EC.

Richtlinien:**Richtlinien:**MD 2006/42/EG¹⁾

Folgende harmonisierte Normen (oder Teile hieraus) wurden angewandt:

The following harmonized standards (or parts thereof) have been applied:

EN ISO 12100:2010

Folgende grundlegenden Sicherheits- und Gesundheitsschutzanforderungen der EG-Maschinenrichtlinie 2006/42/EG, Anhang I wurden angewandt und eingehalten:

The following essential health and safety requirements of the EC Machinery Directive 2006/42/EC, Annex I have been applied or adhered to:

1.1.2.; 1.1.3.; 1.1.5.; 1.3.2.; 1.3.3.; 1.3.4.; 1.3.7.; 1.5.13.; 1.5.2.; 1.5.3.; 1.5.4.; 1.5.5.; 1.5.8.; 1.5.9.; 1.6.1.; 1.6.3.; 1.6.4.; 1.6.5.; 1.7.1.; 1.7.1.1.; 1.7.2.; 1.7.3.; 1.7.4.; 1.7.4.1.; 1.7.4.2.; 1.7.4.3.

¹⁾ MD 2006/42/EG**Bemerkungen:**

Ferner wird erklärt, dass die speziellen technischen Unterlagen gemäß Anhang VII Teil B erstellt wurden. Der Hersteller verpflichtet sich, einzelstaatlichen Stellen auf begründetes Verlangen die speziellen technischen Unterlagen zu der unvollständigen Maschine zu übermitteln. Diese Übermittlung erfolgt elektronisch. Die gewerblichen Schutzrechte bleiben hiervon unberührt!

¹⁾ MD 2006/42/EG**Remarks:**

We also declare that the specific technical documents have been created in accordance with part B of Annex VII. The manufacturer undertakes to transmit relevant technical documents on the partly completed machinery to the national authorities in response to a reasoned request. This communication takes place electronically. This does not affect the industrial property rights.



i.V. M. Barghoorn
Leiter Globale Technik
Ingelfingen, 13.09.2024

GEMÜ Gebr. Müller Apparatebau GmbH & Co. KG
Fritz-Müller-Straße 6-8, 74653 Ingelfingen, Deutschland

www.gemu-group.com
info@gemu.de

20 EU Declaration of Conformity



Version 2



EU-Konformitätserklärung EU Declaration of Conformity

Wir, die Firma

We, the company

GEMÜ Gebr. Müller Apparatebau GmbH & Co. KG
Fritz-Müller-Straße 6-8
74653 Ingelfingen
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 S40

Product: GEMÜ S40

Produktname: Pneumatisch betätigtes Sitzventil

Product name: Pneumatically operated globe valve

Richtlinien/Verordnungen:

Directives/Regulations:

PED 2014/68/EU¹⁾

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.

Benannte Stelle:
TÜV Rheinland Industrie Service GmbH
Am Grauen Stein 1
51105 Köln

Kennnummer der benannten Stelle: 0035

Nr. des QS-Zertifikats: 01 202 926/Q-02 0036

Angewandte(s) Konformitätsbewertungsverfahren: Modul H

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 Druckgeräte-richtlinie 2014/68/EU keine CE-Kennzeichnung tragen.

¹⁾ PED 2014/68/EU

Classification acc. Pressure Equipment Directive 2014/68/EU, Article 4 and Annex II:
Class 1 fluid (gaseous or liquid)
Chart 6, Category I
Unstable gases are excluded.

Notified body:
TÜV Rheinland Industrie Service GmbH
Am Grauen Stein 1
51105 Cologne, Germany

ID number of the notified body: 0035

No. of the QA certificate: 01 202 926/Q-02 0036

Conformity assessment procedure(s) applied: Module H

Information for products with a nominal size ≤ DN 25:

The products are developed and produced according to GEMÜ's in-house process instructions and standards of quality which comply with the requirements of ISO 9001 and ISO 14001. According to Article 4, Paragraph 3 of the Pressure Equipment Directive 2014/68/EU, these products must not be identified by a CE-marking.

i.V. M. Barghoorn
Leiter Globale Technik
Ingelfingen, 28.07.2025

GEMÜ Gebr. Müller Apparatebau GmbH & Co. KG
Fritz-Müller-Straße 6-8, 74653 Ingelfingen, Deutschland

www.gemu-group.com
info@gemu.de

21 EU Declaration of Conformity

Version 1



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 S40 Sonderausführung Code X

Product: GEMÜ S40 special version Code X

Produktname: Pneumatisch betätigtes Sitzventil

Product name: Pneumatically operated globe valve

Richtlinien/Verordnungen:

Directives/Regulations:

ATEX 2014/34/EU¹⁾

Folgende harmonisierte Normen (oder Teile hieraus) wurden angewandt:

The following harmonized standards (or parts thereof) have been applied:

EN IEC 80079-36 Berichtigung 1:2024; EN IEC 80079-36:2016; EN IEC 80079-37:2016

¹⁾ ATEX 2014/34/EU

Dokumente hinterlegt bei:

IBExU Institut für Sicherheitstechnik GmbH

Dokumente hinterlegt unter: 211/06_E1 bzw. IB2066180

Explosionsschutzkennung: Gas:  II 2 G Ex h IIC T6 ... T3 Gb X

Explosionsschutzkennung: Staub:  II -/2 D Ex h -/IIIC T185 °C -/Db X

¹⁾ ATEX 2014/34/EU

Documents filed with:

IBExU Institut für Sicherheitstechnik GmbH

Documents filed under: 211/06_E1 bzw. IB2066180

Explosion protection designation: Gas:  II 2 G Ex h IIC T6 ... T3 Gb X

Explosion protection designation: Dust:  II -/2 D Ex h -/IIIC T185 °C -/Db X

i.V. M. Barghoorn
Leiter Globale Technik
Ingelfingen, 27.11.2025

GEMÜ Gebr. Müller Apparatebau GmbH & Co. KG
Fritz-Müller-Straße 6-8, 74653 Ingelfingen, Deutschland

www.gemu-group.com
info@gemue.de



GEMÜ Gebr. Müller Apparatebau GmbH & Co. KG
Gert-Müller-Platz 1, 74635 Kupferzell, Germany
Phone +49 (0) 7940 1230 · info@gemue.de
www.gemu-group.com

Subject to alteration

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