GEMÜ B22

Manually operated 2/2-way ball valve

EN **Operating instructions**



further information
webcode: GW-B22

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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.

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
	Risk of crushing due to moving parts when the valve is not installed!
	The equipment is subject to pressure!
	Corrosive chemicals!
	Falling product!
	Hot plant components!
	Maximum permissible pressure exceeded!
	Leakage!

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:

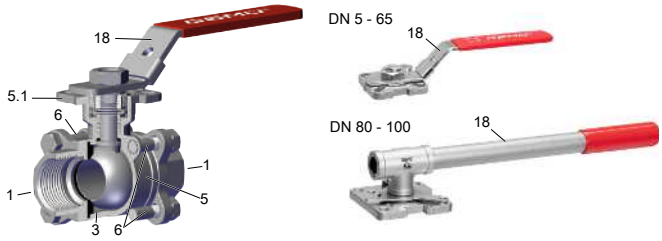
9. Keep this document available at the place of use.
10. Observe the safety information.
11. Operate the product in accordance with this document.
12. Operate the product in accordance with the specifications.
13. Maintain the product correctly.
14. Do not carry out any maintenance work and repairs not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

In cases of uncertainty:

15. Consult the nearest GEMÜ sales office.

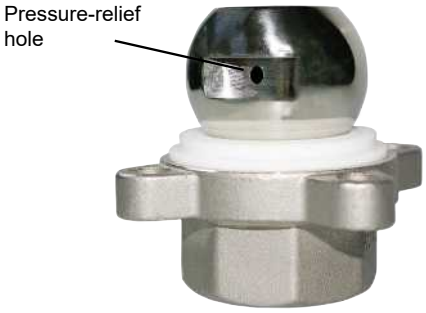
3 Product description

3.1 Construction

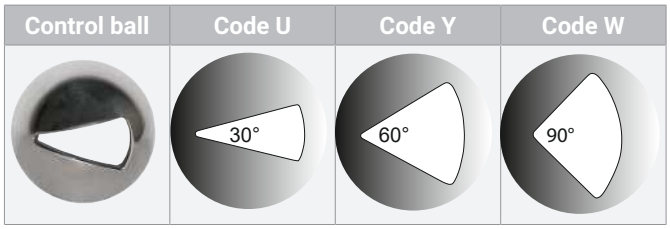


Item	Name	Materials
5	Ball valve body	1.4408 / CF8M
1	Pipe connections	1.4408 / CF8M, 1.4409 / CF3M butt weld connections
5.1	Mounting flange ISO 5211	1.4408 / CF8M
18	Hand lever	304
6	Bolts	A2 70
3	Seal	PTFE

3.2 Pressure-relief hole



3.3 Control ball



Note: The control ball cannot be retrofitted to standard 2/2-way bodies at a later date.

3.4 Description

The GEMÜ B22 3-piece 2/2-way metal ball valve is manually operated. It has a plastic sleeved hand lever with a locking device. The seat seal is made of PTFE.

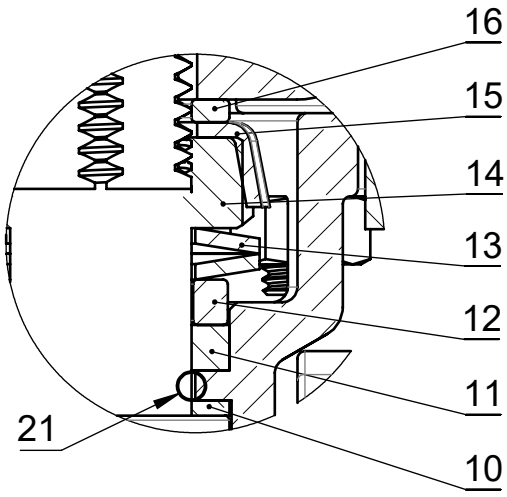
3.5 Function

The GEMÜ B22 2/2-way ball valve is made of metal and is equipped with a plastic sleeved hand lever and a stainless steel top flange.

The ball valve can be continuously open or closed.

The position of the ball valve can be secured using a suitable lock (e.g. padlock). This lock is not included in the scope of delivery.

4 The spindle seal system



Item	Name	Material
10	Seal	PTFE
11	V-ring	PTFE
12	Stainless steel sleeve	SS304–1.4301
13	Spring washer	SS304–1.4301
14	Spindle nut	A2 70
15	Cap	SS304–1.4301
16	Washer	SS304–1.4301
21	O-ring (spindle seal)	FKM

Long service life due to triple spindle seal

- Conical spindle seal:
The seal **10** arranged at an angle of 45° effectively prevents the leakage of media when operating the spindle
- O-ring:
Stabilising spindle seal **21** with low wear and long service life
- Pretensioned self-adjusting spindle seal:
The spindle packing consists of several V-rings **11**, a spring washer **13** and a stainless steel sleeve **12**. The spring washer **13** is pretensioned via the spindle nut **14**. The pretension force is distributed to the V-rings **11** via the stainless steel sleeve **12**, thereby preventing the leakage of media. The pre-tension provides low maintenance and reliable spindle sealing even after a long service life.

5 GEMÜ CONEXO

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

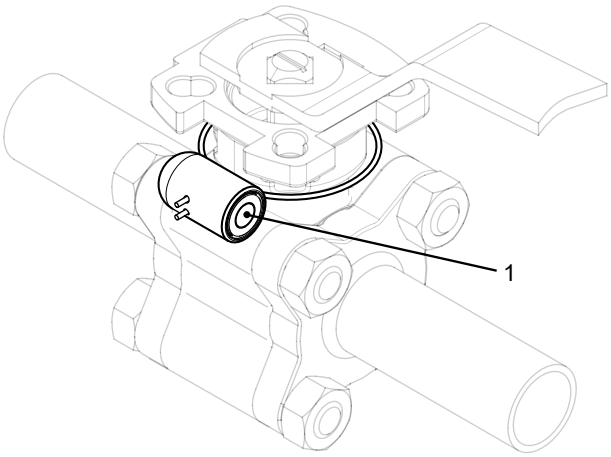


Thanks to serialization, every valve and every relevant valve component such as the body, actuator or diaphragm, and even automation components, can be clearly traced and read using the CONEXO pen RFID reader. The CONEXO app, which can be installed on mobile devices, not only facilitates and improves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

Installing the RFID chip

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.



6 Correct use

Ball valves are used to isolate media flows.

Only clean, liquid or gaseous media must be used, and the body and seal materials used must be resistant to and suitable for this. Contaminated media and / or applications outside of the pressure and temperature data may lead to damage to the body and, in particular, to the seals on the ball valve.

The "Technical data" chapter describes the permissible pressure / temperature range for these ball valves.

⚠ 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.

NOTICE

Explosion protection (ATEX)

- ► The product is free from potential ignition sources and does not fall under the ATEX Directive 2024/34/EU. It is suitable for use in potentially explosive areas. See the manufacturer's declaration.

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

- ● Use the product in accordance with the technical data.

The product must not be exposed to pressure fluctuations. If the product is to be used with pressure fluctuations, please contact GEMÜ.

Due to the design, in the open and closed position, a low volume of medium may be trapped within the ball or between the ball and the body.

Expansion of the medium due to temperature differences, change in state or a chemical response may lead to a high pressure build-up. In order to prevent unacceptable pressure increases, a special version with pressure-relief hole in the ball is available on request for this case.

NOTICE

Build-up of lint!

- ► For soft-seated ball valves, due to the relative rotations of the stainless steel ball to the seat seal, slight wear of the PTFE seals must always be anticipated. Despite this, the safety of the ball valve is not affected by any potential build-up of lint and the seal materials are compliant in accordance with FDA directives.

7 Order data

The order data provide an overview of standard configurations.

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

Products ordered with **bold marked ordering options** are so-called preferred series. Depending on the nominal size, these are available more quickly.

Order codes

1 Type	Code
Ball valve, metal, manually operated, three-piece body, ISO 5211, top flange, lockable hand lever, low-maintenance spindle seal and blow-out proof shaft, with antistatic unit	B22

2 DN	Code
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
DN 100	100

3 Body/ball configuration	Code
2/2-way body	**D**
2/2-way body, V-ball, 30° (Kv value, see datasheet)	U
2/2-way body, V-ball, 90° (Kv value, see datasheet)	W
2/2-way body, V-ball, 60° (Kv value, see datasheet)	Y

4 Connection type	Code
Spigot	
Spigot EN 10357 series A/DIN 11866 series A, formerly DIN 11850 series 2	17
Spigot DIN EN 12627	**19**
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**
Welded socket	
Socket weld ANSI B 16.11	70
Threaded socket	
Threaded socket DIN ISO 228	**1**
NPT female thread	31
Flange	
Flange EN 1092, PN 16, form B, face-to-face dimension FTF EN 558 series 1, ISO 5752 basic series 1	8

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

5 Ball valve material	Code
1.4408/CF8M (body, connection), 1.4401/SS316 (ball, shaft)	**37**
1.4408/CF8M (body), 1.4409/CF3M (connection), 1.4401/SS316 (ball, shaft)	C7

6 Seal material	Code
PTFE FKM O-ring	**5**

7 Control function	Code
Manually operated, toggle, lockable	L

8 Type of design	Code
Standard	
Media-wetted area cleaned to ensure suitability for paint applications, parts sealed in plastic bag	0101
Valve free of oil and grease, media-wetted area cleaned and packaged in PE bag	0107
Thermal separation between actuator and valve body by mounting kit, mounting kit and mounting parts in stainless steel	5227
K-no. 5227, K-no. 7056, 5227 – thermal separation by mounting kit, 7056 – drilled shaft, shortened toggle	5237
K-no. 0101, K-no. 5227, 0101 – media-wetted area cleaned to ensure suitability for paint applications, 5227 – thermal separation by mounting kit	5238
K-no. 0107, K-no. 5227, 0107 – valve free of oil and grease, media-wetted area cleaned 5227 – thermal separation by mounting kit	5239
K-no. 0101, K-no. 5227, K-no. 7056, 0101 – media-wetted area cleaned to ensure suitability for paint applications, 5227 – thermal separation by mounting kit, 7056 – drilled shaft, shortened toggle	5240
K-no. 0107, K-no. 5227, K-no. 7056, 0107 – valve free of oil and grease, media-wetted area cleaned 5227 – thermal separation by mounting kit, 7056 – drilled shaft, shortened toggle	5241

8 Type of design	Code
Shortened toggle for construction of feedback units. Shaft face drilled for mounting kit: DN8-DN20 M5 x 12.5/depth of thread 9.0 mm, DN25-DN100 M6 x 15/depth of thread 10.0 mm	7056
K-no. 0101, K-no. 7056, 0101 – media-wetted area cleaned to ensure suitability for paint applications, 7056 – drilled shaft, shortened toggle	7097

9 Special version	Code
Without	
Special version for oxygen Maximum temperature for medium: 100 °C, Operating pressure limited in accordance with product	O

9 Special version	Code
label data Media-wetted materials cleaned, and grease and seal tested in accordance with DIN EN 1797/ISO 21010	
ASME B31.3	P
Explosion protection	X

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

Order example

Ordering option	Code	Description
1 Type	B22	Ball valve, metal, manually operated, three-piece body, ISO 5211, top flange, lockable hand lever, low-maintenance spindle seal and blow-out proof shaft, with antistatic unit
2 DN	15	DN 15
3 Body/ball configuration	D	2/2-way body
4 Connection type	1	Threaded socket DIN ISO 228
5 Ball valve material	37	1.4408/CF8M (body, connection), 1.4401/SS316 (ball, shaft)
6 Seal material	5	PTFE FKM O-ring
7 Control function	L	Manually operated, toggle, lockable
8 Type of design		Standard
9 Special version		Without
10 CONEXO	C	Integrated RFID chip for electronic identification and traceability

8 Technical data

8.1 Medium

Working medium:

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

For special version for oxygen (code O): Only gaseous oxygen.

8.2 Temperature

Media temperature:

-40 — 180 °C

For media temperatures > 100 °C , we recommend using a mounting kit with adapter between the ball valve and the actuator.

For the medium gaseous oxygen (special version code O): Media temperature max. 100 °C.

Ambient temperature:

-40 — 60 °C

Storage temperature:

-40 — 60 °C

8.3 Pressure

Operating pressure:

0 — 63 bar

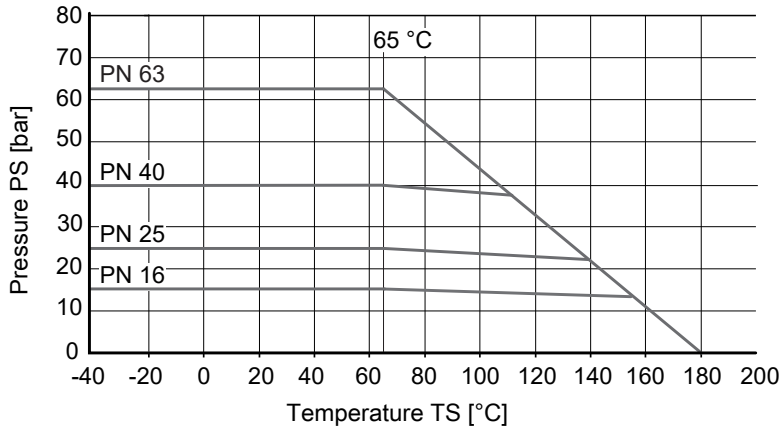
For the medium gaseous oxygen (special version code O): Operating pressure limited in accordance with product label data.

Vacuum:

Can be used up to a vacuum of 50 mbar (absolute)

These values apply to room temperature and air. The values may deviate for other media and other temperatures.

Pressure/temperature diagram:



Observe the media temperature

Pressure/temperature data in accordance with diagram refers to static operating conditions. Strongly fluctuating or fast-changing parameters can lead to a reduction of the service life. Special applications must be talked through with your technical contact person in advance.

Leakage rate:

Leakage rate according to ANSI FCI70 – B16.104

Leakage rate according to EN12266, 6 bar air, leakage rate A

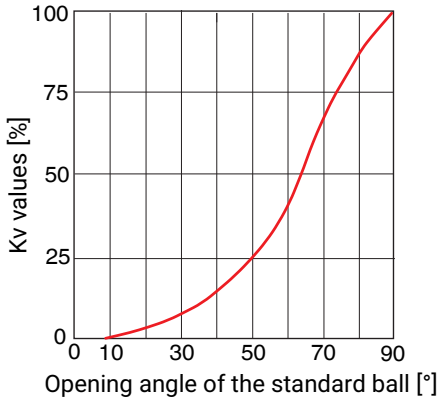
Kv values:

Standard ball (code D)

DN	NPS	Kv value
8	**1/4"**	8.0
10	**3/8"**	8.0
15	**1/2"**	17.0
20	**3/4"**	34.0
25	**1"**	60.0
32	**1¼"**	94.0
40	**1½"**	213.0
50	**2"**	366.0
65	**2½"**	595.0
80	**3"**	935.0
100	**4"**	1700.0

Kv values in m³/h

Diagrammatic view



V-ball 30° (code U)

DN	NPS	Opening angle										
		0	15%	20%	30%	40%	50%	60%	70%	80%	90%	100%
15	**1/2"**	0	0.085	0.085	0.170	0.255	0.425	0.680	0.935	1.360	1.870	2.210
20	**3/4"**	0	0.085	0.170	0.425	0.595	0.935	1.530	2.040	2.805	3.825	4.590
25	**1"**	0	0.085	0.255	0.680	1.105	1.955	2.975	4.335	5.961	8.128	8.500
32	**1¼"**	0	0.170	0.340	0.935	1.700	3.145	4.675	6.800	8.500	11.050	12.750
40	**1½"**	0	0.255	0.510	1.360	2.550	4.250	6.375	9.350	11.900	14.450	17.000
50	**2"**	0	0.340	1.020	3.230	5.100	8.500	12.750	19.550	26.350	36.550	51.000
65	**2½"**	0	0.340	0.850	3.400	6.800	10.200	15.300	23.800	31.450	52.700	63.750
80	**3"**	0	0.425	1.020	3.400	6.800	11.900	19.550	28.050	39.100	55.250	69.700
100	**4"**	0	0.510	1.700	5.100	12.750	24.650	40.800	60.350	85.000	110.50	135.20

Kv values in m³/h

Kv values:

V-ball 60° (code Y)

DN	NPS	Opening angle										
		0	15%	20%	30%	40%	50%	60%	70%	80%	90%	100%
15	**1/2"**	0	0.085	0.085	0.255	0.425	0.765	1.190	1.700	2.805	3.740	5.100
20	**3/4"**	0	0.085	0.170	0.595	0.850	1.445	2.380	3.400	5.525	7.650	10.200
25	**1"**	0	0.170	0.340	0.935	1.530	2.890	4.505	6.715	10.460	13.010	17.850
32	**1¼"**	0	0.170	0.510	1.530	2.550	4.675	8.075	10.880	16.150	22.100	33.150
40	**1½"**	0	0.340	0.680	2.125	3.400	6.800	11.050	16.150	22.950	34.000	44.200
50	**2"**	0	0.340	1.275	3.910	7.650	14.030	22.950	33.150	46.750	70.550	93.500
65	**2½"**	0	0.340	1.275	4.250	8.500	17.850	28.900	45.050	63.750	87.550	127.50
80	**3"**	0	0.425	2.125	5.100	11.900	21.250	34.000	55.250	77.350	108.800	140.30
100	**4"**	0	0.595	2.550	9.350	21.250	34.000	50.150	76.500	119.900	180.200	302.60

Kv values in m³/h

V-ball 90° (code W)

DN	NPS	Opening angle										
		0	15%	20%	30%	40%	50%	60%	70%	80%	90%	100%
15	**1/2"**	0	0.085	0.170	0.340	0.510	0.765	1.275	1.870	3.230	4.590	5.865
20	**3/4"**	0	0.170	0.340	0.680	1.020	1.700	2.635	3.910	6.800	9.605	11.900
25	**1"**	0	0.170	0.510	1.530	2.890	4.335	6.885	9.690	13.600	17.850	24.650
32	**1¼"**	0	0.255	0.680	1.700	4.250	6.800	11.900	16.150	23.800	33.150	46.750
40	**1½"**	0	0.425	0.765	2.975	5.950	11.050	17.000	26.350	35.700	53.550	66.300
50	**2"**	0	0.595	1.700	5.100	10.200	18.700	29.750	38.250	59.500	89.250	114.800
65	**2½"**	0	0.425	1.445	5.950	11.900	23.800	40.800	59.500	90.100	136.000	185.300
80	**3"**	0	0.595	2.975	6.800	15.300	29.750	51.000	76.500	114.800	174.300	263.500
100	**4"**	0	0.850	2.975	13.600	34.000	63.750	106.300	161.50	250.800	375.700	569.500

Kv values in m³/h

Pressure rating:

DN	Butt weld spigot/welded socket					Threaded socket		Flange	
	Connection type code [1]								
	17	19	59	60	70	1	31	8	11
8	-	PN63	-	PN63	PN63	PN63	PN63	-	-
10	PN63	PN63	-	PN63	PN63	PN63	PN63	-	-
15	PN63	PN63	PN63	PN63	PN63	PN63	PN63	-	PN40
20	PN63	PN63	PN63	PN63	PN63	PN63	PN63	-	PN40
25	PN63	PN63	PN63	PN63	PN63	PN63	PN63	-	PN40
32	PN63	PN63	-	PN63	PN63	PN63	PN63	-	PN40
40	PN63	PN63	PN63	PN63	PN63	PN63	PN63	-	PN40
50	PN63	PN63	PN63	PN63	PN63	PN63	PN63	-	PN40
65	PN40	PN40	PN40	PN40	PN40	PN40	PN40	PN16	PN40*
80	PN40	PN40	PN40	PN40	PN40	PN40	PN40	PN16	-
100	PN25	PN25	PN25	PN25	PN25	PN25	PN25	PN16	-

* on request

1) **Connection type**
Code 1: Threaded socket DIN ISO 228
Code 31: NPT female thread
Code 8: Flange EN 1092, PN 16, 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 17: Spigot EN 10357 series A/DIN 11866 series A, formerly DIN 11850 series 2
Code 19: Spigot DIN EN 12627
Code 59: Spigot ASME BPE/DIN EN 10357 series C (from 2022 edition)/DIN 11866 series C
Code 60: Spigot ISO 1127/DIN EN 10357 series C (2014 edition)/DIN 11866 series B
Code 70: Socket weld ANSI B 16.11

8.4 Product conformities

Pressure equipment standards:
ASME GEMÜ B31.3 (DN 15 – 100)
2014/68/EU

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

Oxygen:
Testing of the seal material based on DIN EN 1797 and ISO 21010:2017 (special version code O)

8.5 Mechanical data

Torques:

DN	NPS	Breakaway torque
8	**1/4"**	6.0
10	**3/8"**	6.0
15	**1/2"**	6.0
20	**3/4"**	10.0
25	**1"**	11.0
32	**1¼"**	17.0
40	**1½"**	28.0
50	**2"**	53.0
65	**2½"**	76.0
80	**3"**	89.0
100	**4"**	138.0

Torques in Nm
A safety factor of 1.2 is included
With dry, non-lubricating media the breakaway torque may be increased.
Valid for clean, non-particulate and oil-free media (water, alcohol, etc.), gas or saturated steam (clean and wet).
PTFE seal.

Weight:

Ball valve

DN	NPS	Threaded connection, spigot	Flange
8	**1/4"**	0.55	1.15
10	**3/8"**	0.55	1.15
15	**1/2"**	0.6	1.35
20	**3/4"**	0.7	1.45
25	**1"**	0.8	1.8
32	**1¼"**	1.2	2.4
40	**1½"**	2.3	3.5
50	**2"**	3.5	4.9
65	**2½"**	6.9	9.3
80	**3"**	11.7	14.7
100	**4"**	19.3	22.3

Weights in kg

Weight:

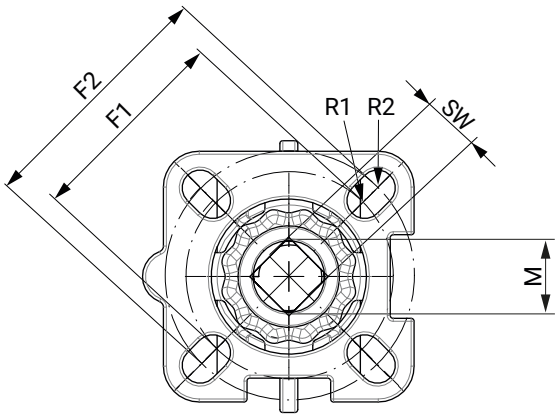
Hand lever

DN	Weight
DN 8 - 20	0.122
DN 25 - 32	0.165
DN 40 - 50	0.398
DN 65	0.78
DN 80 - 100	0.78

Weights in kg

9 Dimensions

9.1 Actuator flange

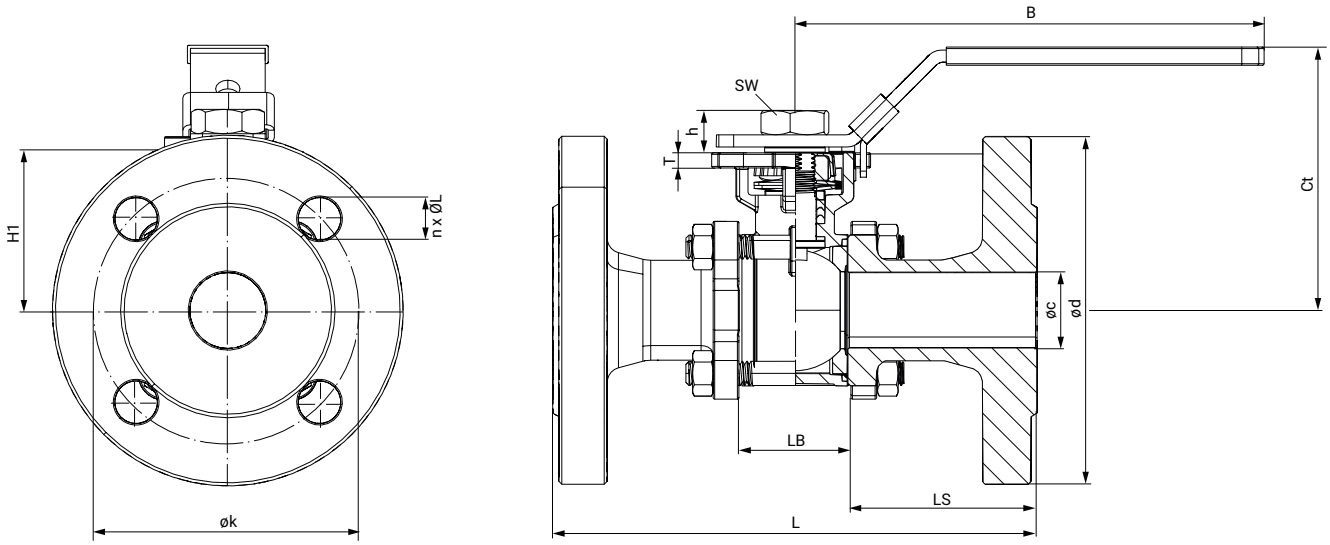


DN	G	F1	ISO 5211	R1	F2	ISO 5211	R2	SW	M
8	**1/4“**	36.0	F03	3.0	42.0	F04	3.0	9.0	M12
10	**3/8“**	36.0	F03	3.0	42.0	F04	3.0	9.0	M12
15	**1/2“**	36.0	F03	3.0	42.0	F04	3.0	9.0	M12
20	**3/4“**	36.0	F03	3.0	42.0	F04	3.0	9.0	M12
25	**1“**	42.0	F04	3.0	50.0	F05	3.5	11.0	M14
32	**1¼“**	42.0	F04	3.0	50.0	F05	3.5	11.0	M14
40	**1½“**	50.0	F05	3.5	70.0	F07	4.5	14.0	M18
50	**2“**	50.0	F05	3.5	70.0	F07	4.5	14.0	M18
65	**2½“**	50.0	F05	3.5	70.0	F07	4.5	14.0	M18
80	**3“**	70.0	F07	5.0	102.0	F10	6.0	17.0	M22
100	**4“**	70.0	F07	5.0	102.0	F10	6.0	17.0	M22

Dimensions in mm

9.2 Ball valve

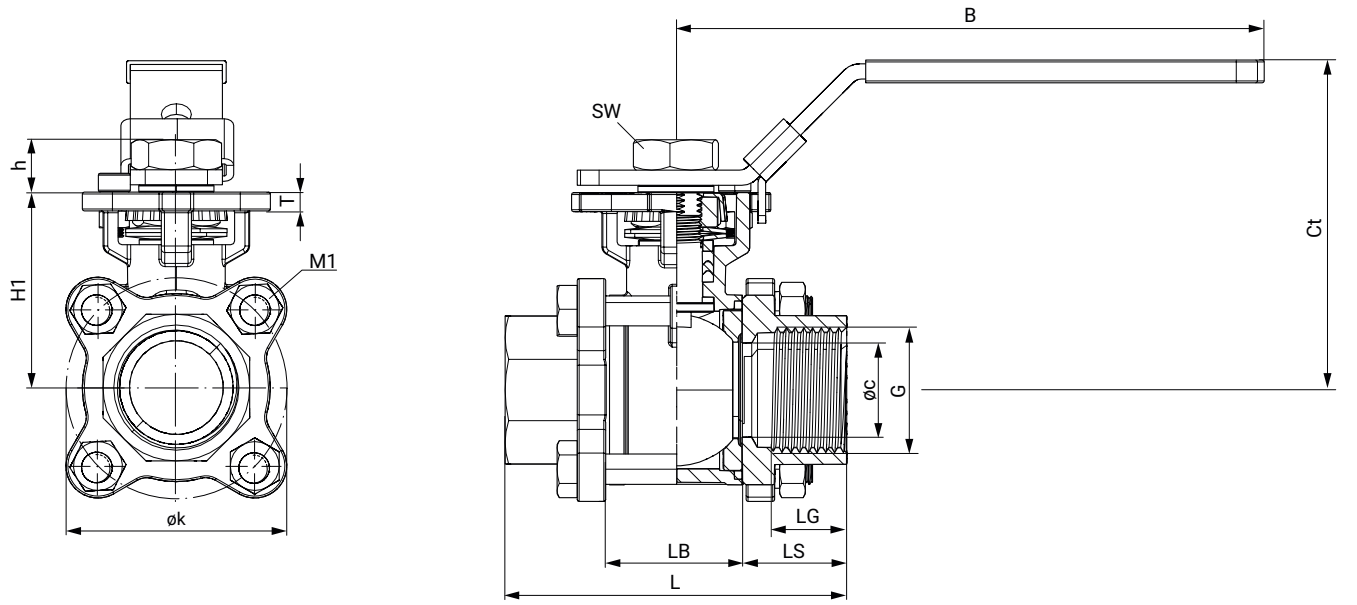
9.2.1 Flange (connection code 8, 11)



DN	Connection code	øc	ød	h	øk	n x ØL	B	Ct	H1	L	LB	LS	SW	T
15	**11**	15.0	95.0	9.0	65.0	4 x 14.0	71.4	72.0	40.5	130.0	24.0	53.0	18.0	5.5
20	**11**	20.0	105.0	10.5	75.0	4 x 14.0	77.0	77.0	45.0	150.0	29.0	60.5	18.0	5.5
25	**11**	25.0	115.0	12.5	85.0	4 x 14.0	87.0	87.0	52.0	160.0	35.0	62.5	18.0	5.0
32	**11**	32.0	140.0	12.5	100.0	4 x 18.0	91.3	92.0	57.0	180.0	44.0	68.0	21.0	6.5
40	**11**	38.0	150.0	16.0	110.0	4 x 18.0	103.0	103.0	69.0	200.0	53.0	73.5	21.0	7.5
50	**11**	49.0	165.0	16.0	125.0	4 x 18.0	110.0	111.0	77.0	230.0	65.0	82.5	27.0	8.5
65	**11**	65.0	185.0	15.0	145.0	8 x 18.0	124.0	124.0	90.0	290.0	81.0	104.5	27.0	8.5
65	**8**					4 x 18.0								
80	**8**	76.0	200.0	18.0	160.0	8 x 18.0	160.0	161.0	108.0	310.0	96.0	107.0	-	10.0
100	**8**	100.0	220.0	18.0	180.0	8 x 18.0	175.0	177.0	123.0	350.0	124.0	113.0	-	10.0

Dimensions in mm
n = number of bolts

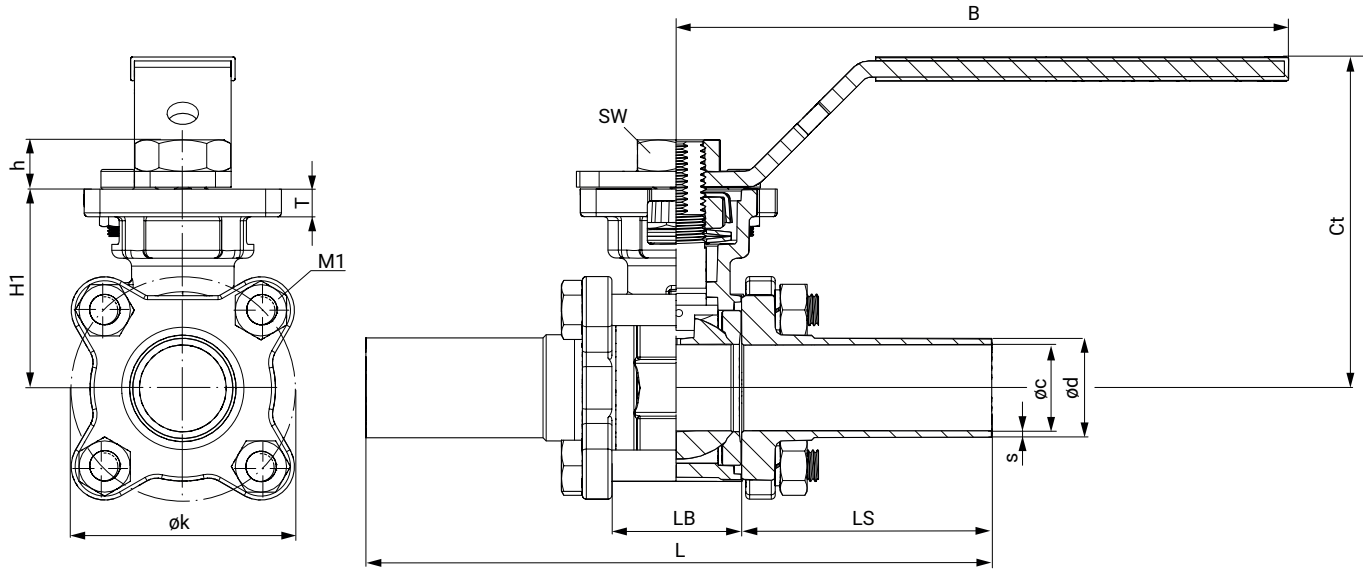
9.2.2 Threaded socket (connection code 1, 31)



DN	G	øc	h	øk	B	Ct	H1	L	LB	LG	LS	M1	SW [mm]	T
8	**1/4“**	10.0	9.0	46.0	110.0	72.0	40.5	55.0	24.0	12.0	15.5	M8	18.0	12.0
10	**3/8“**	12.0	9.0	46.0	110.0	72.0	40.5	60.0	24.0	12.0	18.0	M8	18.0	14.0
15	**1/2“**	15.0	9.0	46.0	126.0	72.0	40.5	75.0	24.0	16.0	25.5	M8	18.0	16.0
20	**3/4“**	20.0	10.5	51.0	126.0	77.0	45.0	80.0	29.0	16.0	25.5	M8	18.0	16.0
25	**1“**	25.0	12.5	61.0	155.0	87.0	52.0	90.0	35.0	17.0	27.5	M8	21.0	17.0
32	**1¼“**	32.0	12.5	73.0	155.0	92.0	57.0	110.0	44.0	20.0	33.0	M10	21.0	20.0
40	**1½“**	38.0	16.0	83.0	192.0	103.0	69.0	120.0	53.0	22.0	33.5	M10	27.0	22.0
50	**2“**	49.0	16.0	101.0	192.0	111.0	77.0	140.0	65.0	24.0	37.5	M12	27.0	24.0
65	**2½“**	64.0	15.0	130.0	235.0	124.0	90.0	185.0	81.0	28.0	52.0	M12	27.0	28.0
80	**3“**	76.0	18.0	155.0	320.0	161.0	108.0	205.0	96.0	32.0	54.5	M14	-	32.0
100	**4“**	100.0	18.0	187.0	320.0	177.0	123.0	240.0	124.0	40.0	58.0	M14	-	40.0

Dimensions in mm

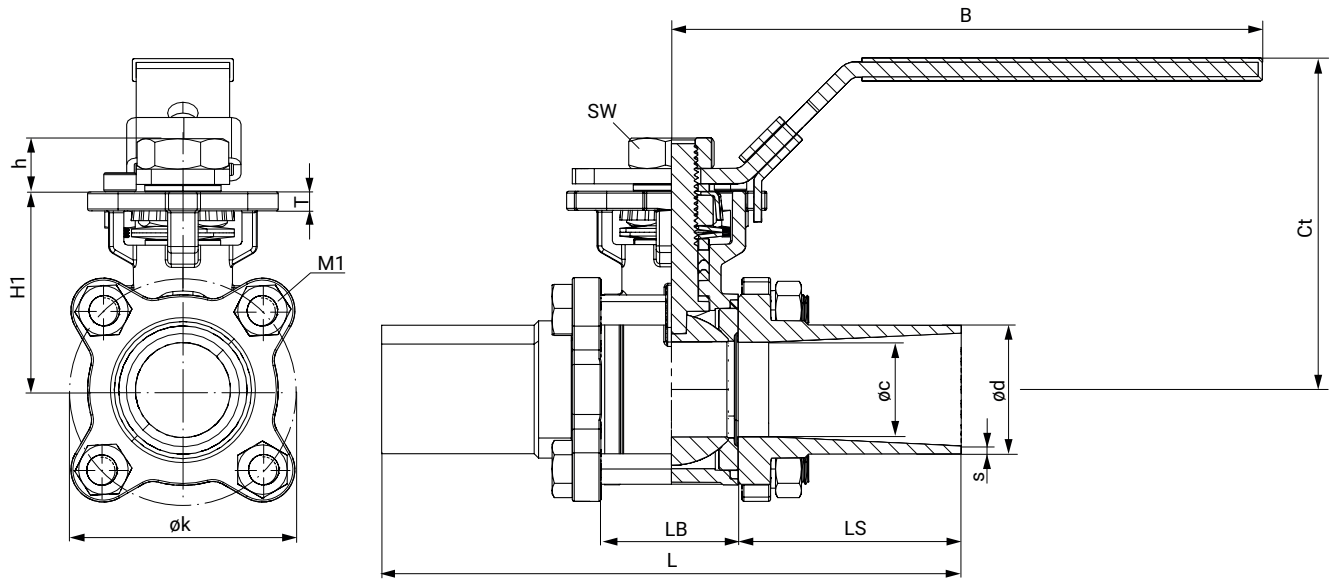
9.2.3 Spigot ASME (connection code 59)



DN	øc	ød	h	øk	s	B	Ct	H1	L	LB	LS	M1	SW	T
15	9.4	12.7	8.5	46.0	1.65	125.0	71.0	40.5	140.0	25.0	57.5	M8	18.0	5.0
20	15.7	19.0	10.5	47.0	1.65	125.0	74.0	43.5	146.0	28.0	59.0	M8	18.0	5.0
25	22.1	25.4	12.0	56.0	1.65	155.0	84.0	50.5	159.0	32.0	63.5	M8	21.0	7.0
40	34.8	38.1	14.5	79.0	1.65	190.0	101.5	67.5	191.0	48.0	71.5	M10	27.0	8.0
50	47.5	50.8	14.5	98.5	1.65	190.0	110.0	75.5	216.0	62.0	77.0	M12	27.0	8.0
65	60.2	63.5	14.5	126.0	1.65	190.0	122.5	88.0	248.0	80.0	84.0	M12	27.0	8.0
80	72.9	76.2	17.5	146.0	1.65	177.0	158.5	105.0	267.0	90.0	88.5	M14	-	10.0
100	97.4	101.6	17.5	180.0	2.15	177.0	186.0	120.0	318.0	118.0	100.0	M14	-	10.0

Dimensions in mm

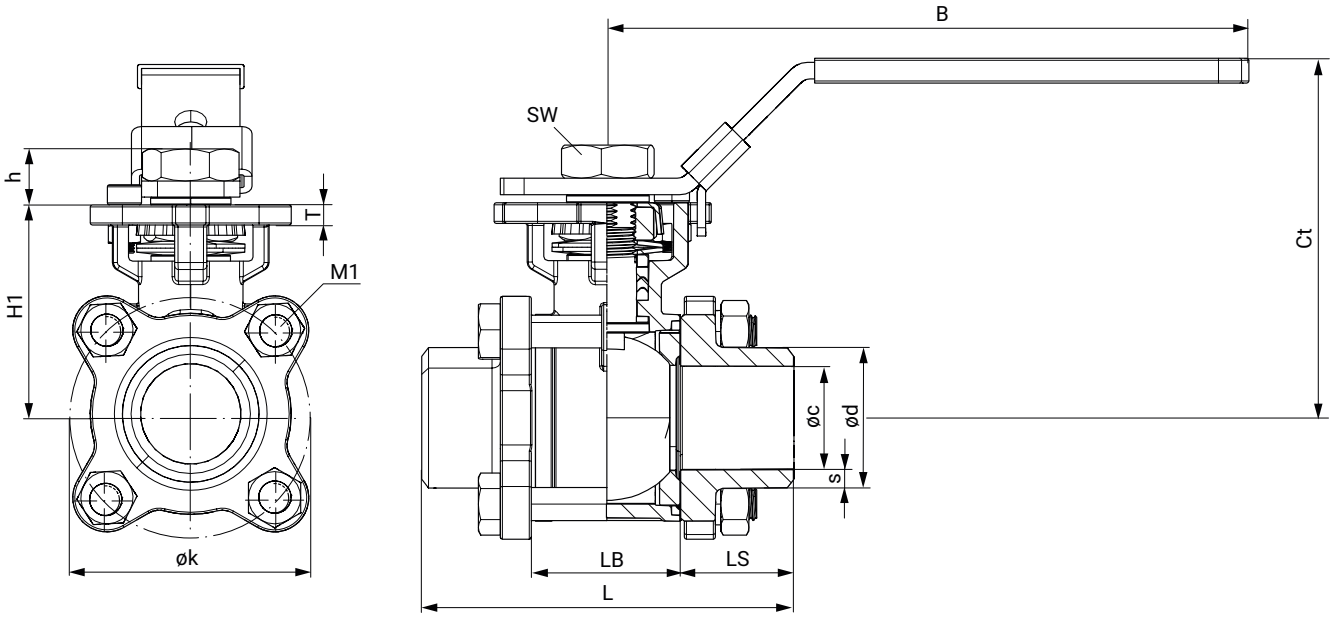
9.2.4 Spigot EN 10357 series A (connection code 17)



DN	øc	ød	h	øk	s	B	Ct	L	LB	LS	H1	M1	SW	T
10	10.0	13.0	9.0	46.0	1.5	125.0	72.0	120.0	24.0	48.0	40.5	M8	18.0	5.5
15	15.0	19.0	9.0	46.0	1.5	125.0	72.0	140.2	24.0	58.0	40.5	M8	18.0	5.5
20	20.0	23.0	10.5	51.0	1.5	125.0	77.0	140.0	29.0	55.5	45.0	M8	18.0	5.5
25	25.0	29.0	12.5	61.0	1.5	155.0	87.0	152.2	35.0	58.5	52.0	M8	21.0	5.0
32	32.0	35.0	12.5	73.0	1.5	155.0	92.0	165.1	44.0	60.5	57.0	M10	21.0	6.5
40	38.0	41.0	16.0	83.0	1.5	192.0	103.0	190.4	53.0	68.5	69.0	M10	27.0	7.5
50	50.0	53.0	16.0	101.0	1.5	192.0	111.0	203.0	65.0	69.0	77.0	M12	27.0	8.5
65	65.0	70.0	15.0	130.0	2.0	221.0	124.0	254.0	81.0	86.5	90.0	M12	27.0	8.5
80	80.0	85.0	18.0	155.0	2.0	277.0	161.0	280.2	96.0	92.0	108.0	M14	-	10.0
100	100.0	104.0	18.0	187.0	2.0	277.0	177.0	317.0	124.0	96.5	123.0	M14	-	10.0

Dimensions in mm

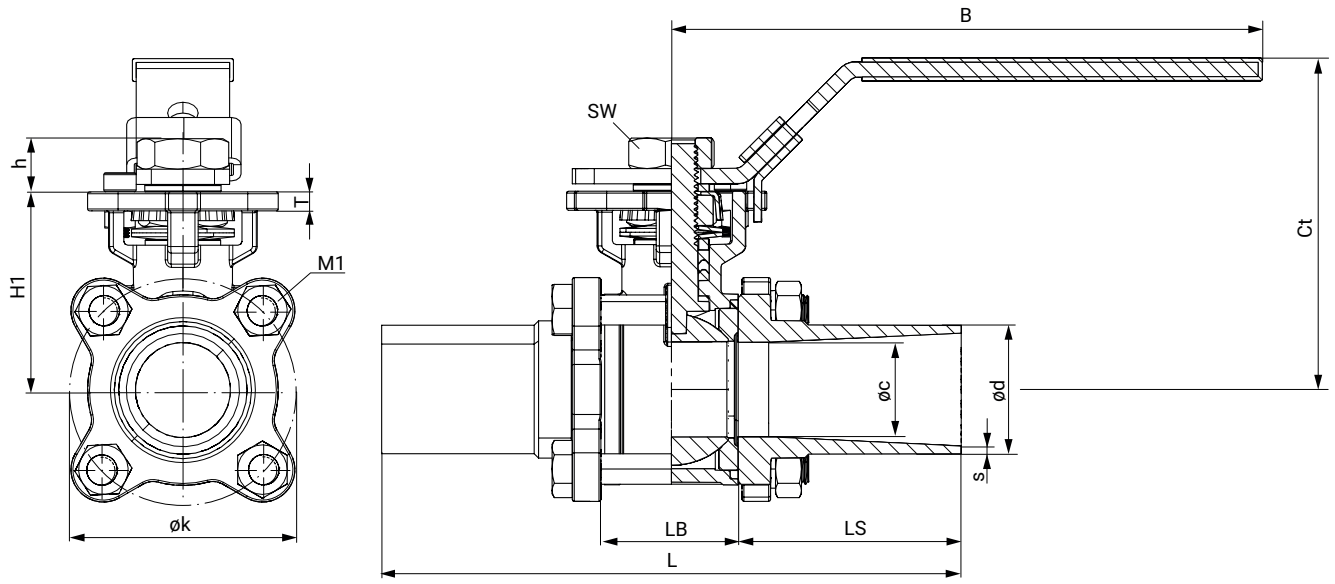
9.2.5 Spigot DIN EN 12627 (connection code 19)



DN	øc	ød	h	øk	s	B	Ct	H1	L	LB	LS	M1	SW	T
8	11.6	16.2	9.0	46.0	2.30	125.0	72.0	40.5	60.0	24.0	18.0	M8	18.0	5.5
10	12.7	17.5	9.0	46.0	2.40	125.0	72.0	40.5	60.0	24.0	18.0	M8	18.0	5.5
15	15.0	21.7	9.0	46.0	3.35	125.0	72.0	40.5	75.0	24.0	25.5	M8	18.0	5.5
20	20.0	27.2	10.5	51.0	3.60	125.0	77.0	45.0	80.0	29.0	25.5	M8	18.0	5.5
25	25.0	34.0	12.5	61.0	4.50	155.0	87.0	52.0	90.0	35.0	27.5	M8	21.0	5.0
32	32.0	42.7	12.5	73.0	5.35	155.0	92.0	57.0	110.0	44.0	33.0	M10	21.0	6.5
40	38.0	48.6	16.0	83.0	5.30	192.0	103.0	69.0	120.0	53.0	33.5	M10	27.0	7.5
50	50.0	60.5	16.0	101.0	5.25	192.0	111.0	77.0	140.0	65.0	37.5	M12	27.0	8.5
65	63.0	76.3	15.0	130.0	6.65	221.0	124.0	90.0	185.3	81.0	52.2	M12	27.0	8.5
80	76.0	89.0	18.0	155.0	6.50	277.0	161.0	108.0	205.0	96.0	54.5	M14	-	10.0
100	100.0	116.0	18.0	187.0	8.00	277.0	177.0	123.0	240.0	124.0	58.0	M14	-	10.0

Dimensions in mm

9.2.6 Spigot ISO (connection code 60)



DN	øc	ød	h	øk	s	B	Ct	H1	L	LB	LS	M1	SW	T
8	10.3	13.5	9.0	46.0	1.6	125.0	72.0	40.5	120.0	24.0	48.0	M8	18.0	5.5
10	12.0	17.2	9.0	46.0	1.6	125.0	72.0	40.5	120.0	24.0	48.0	M8	18.0	5.5
15	15.0	21.3	9.0	46.0	1.6	125.0	72.0	40.5	140.2	24.0	58.0	M8	18.0	5.5
20	20.0	26.9	10.5	51.0	1.6	125.0	87.0	45.0	140.0	29.0	55.5	M8	18.0	5.5
25	25.0	33.7	12.5	59.0	2.0	155.0	87.0	52.0	152.2	35.0	58.5	M8	21.0	5.0
32	32.0	42.4	12.5	73.0	2.0	155.0	92.0	57.0	165.1	44.0	60.5	M10	21.0	6.5
40	38.0	48.3	16.0	83.0	2.0	192.0	103.0	69.0	190.4	53.0	68.5	M10	27.0	7.5
50	49.0	60.3	16.0	103.0	2.0	192.0	111.0	77.0	203.0	65.0	69.0	M12	27.0	8.5
65	64.0	76.1	15.0	130.0	2.0	221.0	124.0	90.0	254.0	81.0	86.5	M12	27.0	8.5
80	76.0	88.9	18.0	155.0	2.3	277.0	161.0	108.0	280.2	96.0	92.0	M14	-	10.0
100	100.0	114.3	18.0	187.0	2.3	277.0	177.0	123.0	317.0	124.0	96.5	M14	-	10.0

Dimensions in mm

10 Manufacturer's information

10.1 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.

10.2 Packaging

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

10.3 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.

10.4 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.
6. Store the ball valves in the "open" position.

11 Installation in piping

11.1 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 while working on the valve.
- Ensure that the valve is in the respective end position.
- Do not reach into the crushing area through the valve body openings.

⚠ WARNING



The equipment is subject to pressure!

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

⚠ WARNING



Corrosive chemicals!

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

⚠ CAUTION



Falling product!

- ► Risk of injury and damage to the product
- Observe the weight in the technical data.
- If necessary, use suitable lifting equipment.

⚠ CAUTION



Hot plant components!

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

⚠ CAUTION



Maximum permissible pressure exceeded!

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

⚠ CAUTION

Use as step!

- ► Damage to the product
- ► Risk of slipping-off
- Choose the installation location so that the product cannot be used as a foothold.
- Do not use the product as a step or a foothold.

NOTICE

Suitability of the product!

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

NOTICE

Tools!

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

● Use appropriate, functional and safe tools.

1. Ensure the product is suitable for the relevant application.
2. Check the technical data of the product and the materials.
3. Keep appropriate tools ready.
4. Wear appropriate protective gear, as specified in the plant operator's guidelines.
5. Observe appropriate regulations for connections.
6. Have installation work carried out by trained personnel.
7. Shut off plant or plant component.
8. Secure plant or plant component against recommissioning.
9. Depressurize the plant or plant component.
10. Completely drain the plant (or plant component) and let it cool down until the temperature is below the media vaporization temperature and cannot cause scalding.
11. Decontaminate, rinse and ventilate the plant or plant component properly.
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. Flow direction and installation position are optional.

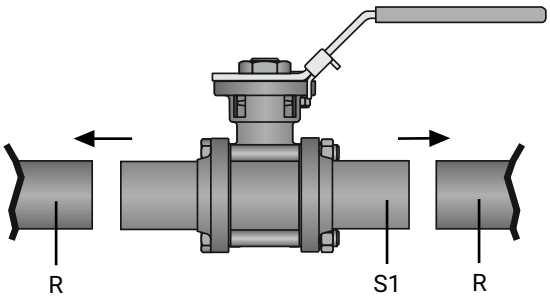
11.2 Installation with butt weld spigots

NOTICE

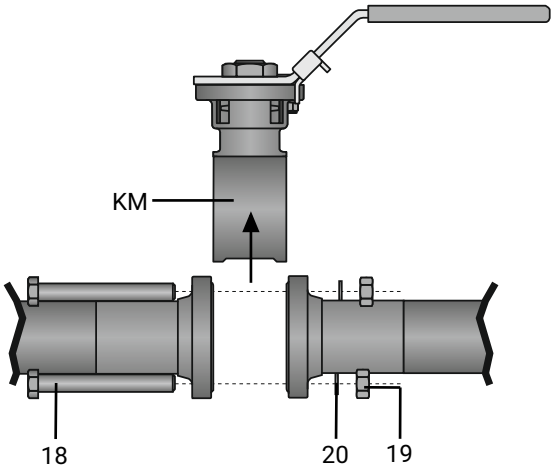
► Adhere to good welding practices!

1. **Installation variant:**
   Undo one bolt, remove the other bolts and swivel the centre section aside instead of removing it.

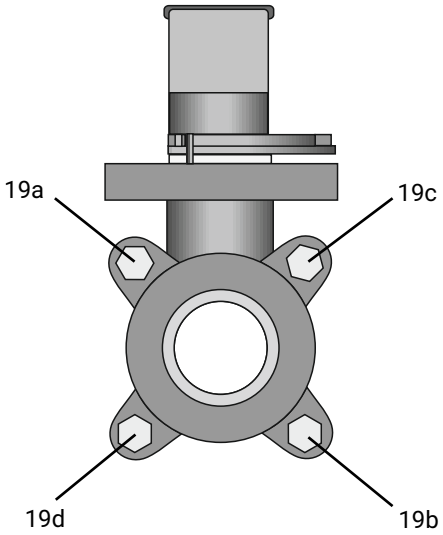




2. Centre and fix butt weld spigots **S1** right and left on piping **R**.



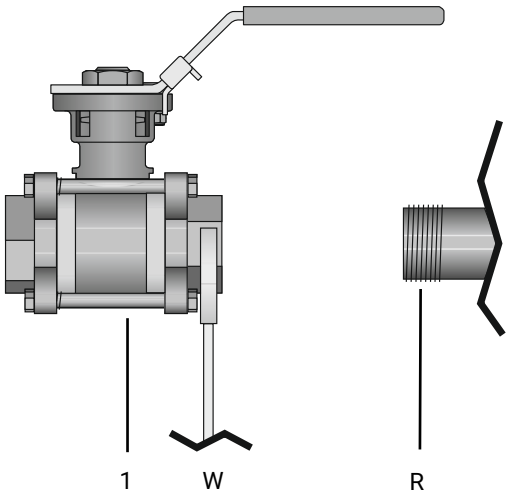
3. Fully unscrew the nuts **19**.
4. Remove the washers **20**.
5. Pull out the bolts **18**.
6. Remove the centre section **KM**.
7. Weld butt weld spigots **S1** right and left to the piping **R**.
8. Allow the butt weld spigots to cool down.
9. Reassemble the ball valve.



10. Tighten nuts **19a - 19d** diagonally, holding them with a wrench.

Nominal size	Torque [Nm]	
	Bolt	Spindle nut
DN8	6–8	18–22
DN10	6–8	18–22
DN15	6–8	18–22
DN20	6–8	25–35
DN25	6–8	25–35
DN32	13–18	25–35
DN40	13–18	45–60
DN50	13–18	45–60
DN65	25–36	45–60
DN80	43–62	70–100
DN100	43–62	70–100

11.3 Installation with threaded connections

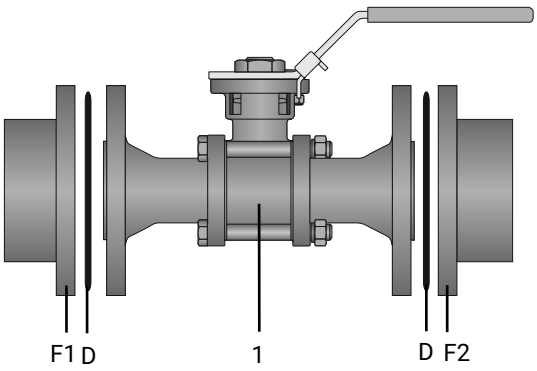


1. Screw ball valve body **1** onto piping **R** using an appropriate thread sealant. The thread sealant is not included in the scope of delivery.
2. Hold in place with open-end wrench **W**.
3. Connect the ball valve body **1** to piping on the other side in a like manner.

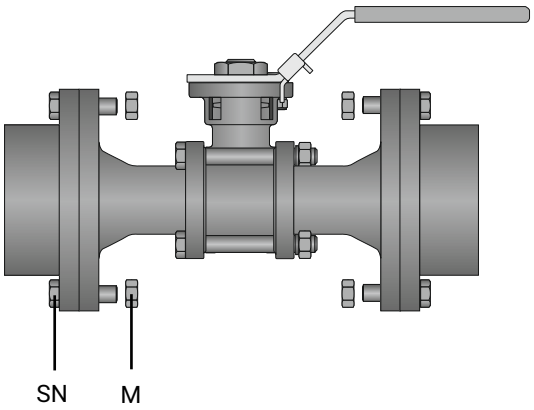
11.4 Installation with flanged connections

NOTICE

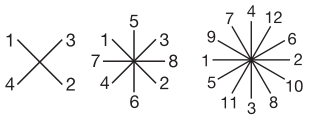
► Observe valid standards for mounting flanges!



1. Ensure sealing surfaces on the mating flanges are clean and undamaged.
2. Only use connector elements made of approved materials!
3. Install the ball valve in the state it is delivered.
4. Carefully align the ball valve body 1 centrally between the pipes with flanges (**F1** and **F2**).
5. Centre the seals **D** accurately. Seals are not included in the scope of delivery.
6. Connect the ball valve flange and the piping flange using appropriate sealing material and matching bolting. Sealing material and bolts are not included in the scope of delivery.



7. Insert bolts **SN** in all holes in the flange.
8. Slightly tighten the bolts **SN** and nuts **M** diagonally.



9. Check the alignment of the piping.
10. Tighten nuts **M** diagonally.

Comply with appropriate regulations for the connections!

11.5 After the installation

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

12 Commissioning

⚠ WARNING



Corrosive chemicals!

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

⚠ CAUTION

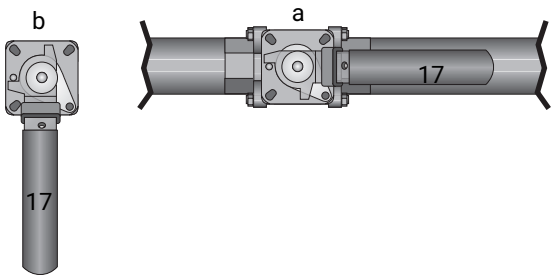


Leakage!

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

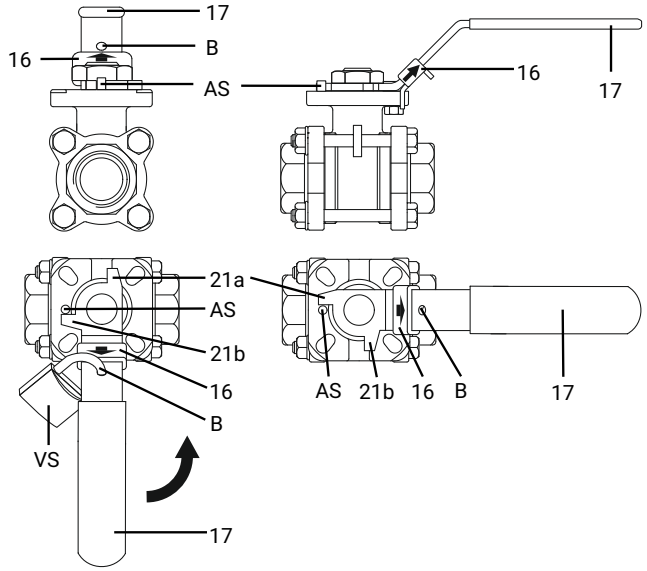
1. Check the tightness and the function of the product (close and reopen the product).
2. Flush the piping system of new plant and following repair work (the product must be fully open).
   ⇨ Harmful foreign matter has been removed.
   ⇨ The product is ready for use.
3. Commission the product.

13 Operation



17	Hand lever
a	Ball valve open
b	Ball valve closed

1. Move hand lever 17 to the desired position.



Ball valve fully open:
The hand lever **17** is located at the travel stop **21a** on the locking stop **AS**.

Ball valve fully closed:
The hand lever **17** is located at the travel stop **21b** on the locking stop **AS**.

NOTICE

► While the valve opening is continuously selectable, these intermediate positions are not lockable.

2. Pull up hand lever locking device **16** such that hand lever **17** can be turned.
3. When the desired end position is reached, push the hand lever locking device **16** downwards and let it engage (only possible if the ball valve is fully open or fully closed). Travel stops **21a** and **21b** are both located at locking stop **AS**.
4. If the ball valve is fully open or fully closed with the hand lever locked in place **17**, the position can be secured on the hand lever **17** using an appropriate lock (e.g. padlock VS) in the bolt hole **B** above the hand lever locking device **16**.

14 Troubleshooting

Error	Possible cause	Troubleshooting
The product does not open or does not open fully	Hand lever locking device engaged	Disengage hand lever locking device
	Foreign matter in the product	Remove and clean the product
The product does not close or does not close fully	Hand lever locking device engaged	Disengage hand lever locking device
	Foreign matter in the product	Remove and clean the product
The product is leaking between hand lever and valve body	Faulty product	Check the product for potential damage, replace the product if necessary
	Seals faulty	Replace seals
Connection between valve body and piping leaking	Incorrect installation	Check installation of valve body in piping
	Flange bolting loose/thread leaking	Retighten flange bolting / reseal threads
	Flange seals faulty	Replace flange seals
Valve body leaking	Valve body leaking or corroded	Check valve body for damage, replace valve body if necessary

15 Inspection/maintenance

⚠ WARNING



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

► Upper limbs may get into the valve body openings while working on the valve.
- Ensure that the valve is in the respective end position.
- Do not reach into the crushing area through the valve body openings.

⚠ 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.

⚠ CAUTION

- Servicing and maintenance work must only be performed by trained personnel.
- Do not extend hand lever. GEMÜ shall assume no liability for damages caused by improper handling or third-party actions.
- In case of doubt, contact GEMÜ prior to commissioning.

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

Ball valves are maintenance-free. No lubrication or routine maintenance of the ball valve shaft is required. The shaft is guided through a PTFE gland packing in the ball valve body. The shaft seal is pretensioned and self-adjusting. However, the operator must carry out regular visual examinations of the ball valves, dependent on the operating conditions and the potential danger in order to prevent leakage and damage.

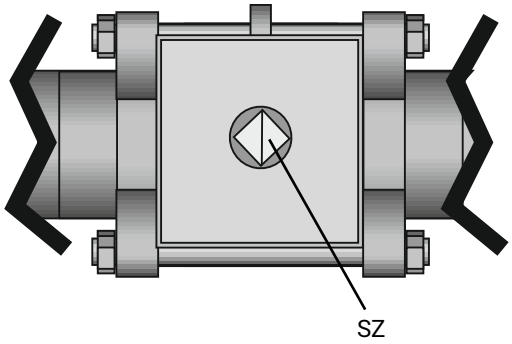
If there is a leakage at the spindle nut, this can generally be rectified by retightening the spindle nut. However, overtightening the spindle nut must be avoided.

Usually, retightening by between 30° and 60° will be sufficient to rectify the leakage.

15.1 General information regarding hand lever replacement

NOTICE

The following is required for hand lever replacement:
- Allen key



1. Check the position of the ball indicated by the groove **SZ** and compare with position indicator, rotate ball valve to correct position if necessary.

⇨ Groove transverse to piping direction:
Ball valve closed.

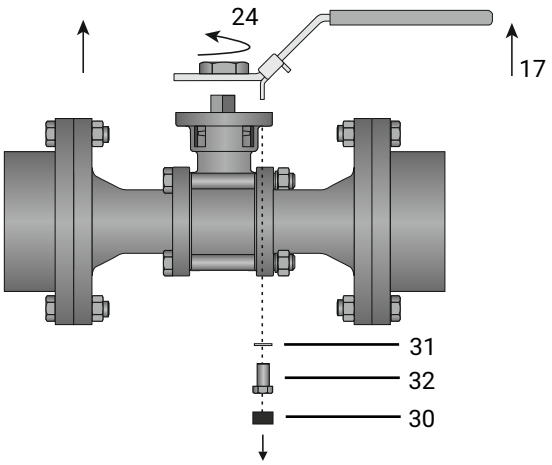
⇨ Groove in piping direction:
Ball valve open.

NOTICE

► For flanged bodies, the hand lever is fitted offset by 90°.

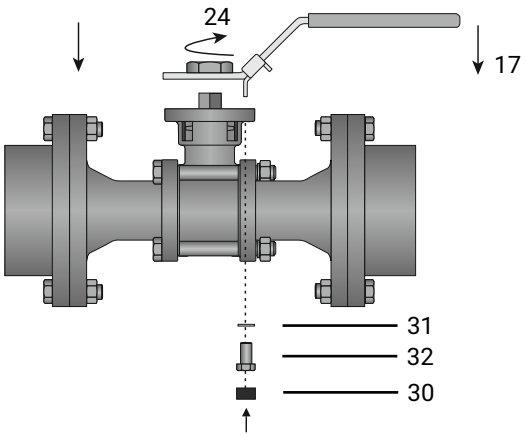
15.1.1 Replacing the hand lever

15.1.1.1 Removing the hand lever



1. Remove the protective caps **30**.
2. Unscrew the hexagon screws **32**.
3. Do not lose the washers **31**.
4. Unscrew the nut **24**.
5. The hand lever **17** can be removed from the ball valve body.

15.1.1.2 Assembling the hand lever



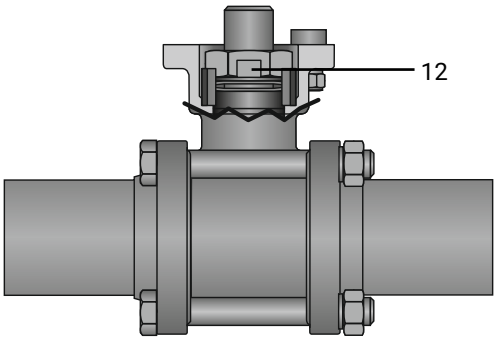
1. Push the new hand lever **17** onto the ball valve body.
2. Turn the hand lever until the screws **32** and nuts **24** can be inserted.
3. Tighten the hand lever with the nut **24**.
4. Tighten the hexagon screws **32** with their washers **31** until hand tight.
5. Diagonally tighten the hexagon screws **32** evenly until they are hand tight.
6. Put the protective caps **30** back on.

15.1.2 Replacing the seals

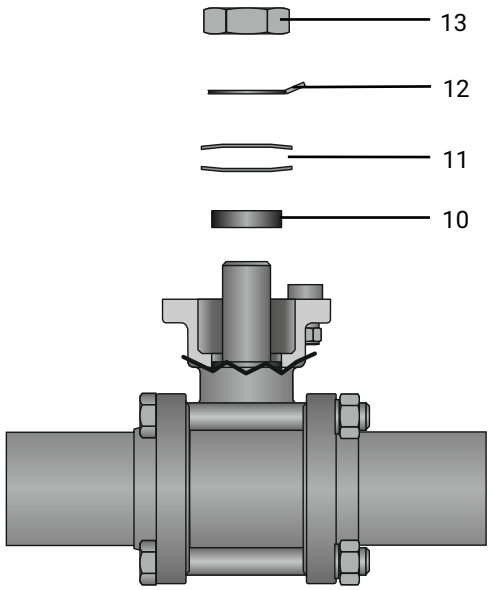
NOTICE

- Only use genuine GEMÜ spare parts.
- When ordering spare parts, specify the complete order number of the ball valve.

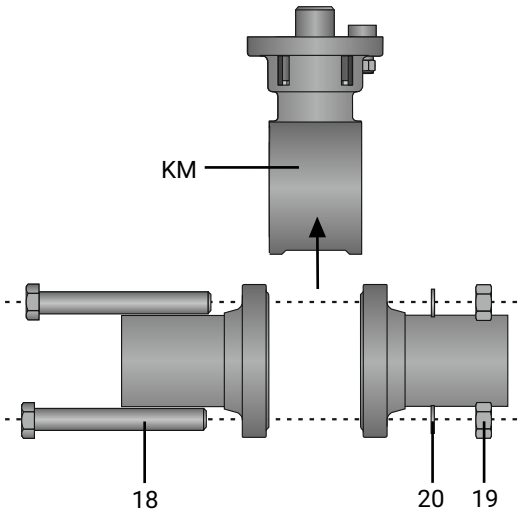
1. Remove the hand lever (see chapter "Removing the hand lever").



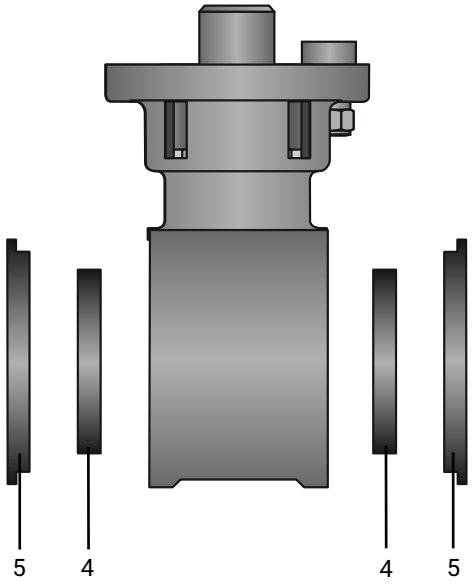
2. Bend the tab **12** of the screw locking device downwards.



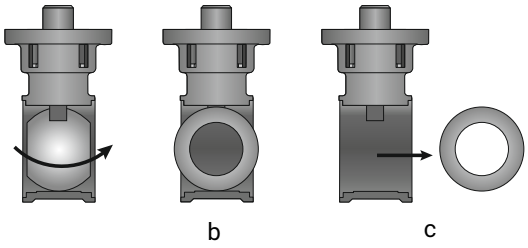
3. Loosen the spindle nut **13** and remove.
4. Remove the screw locking device **12**.
5. Remove the spring washers **11**.
6. Remove the stainless steel sleeve **10**.



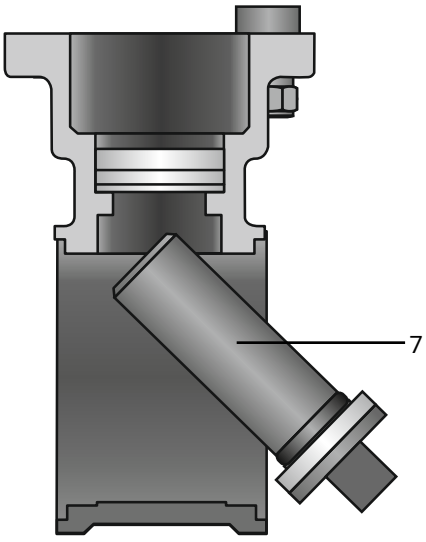
7. Loosen the nuts **19** of the flange bolts **18** of the ball valve and remove with washers **20**.
8. Remove the flange bolts **18**.
9. Remove the centre section **KM**.



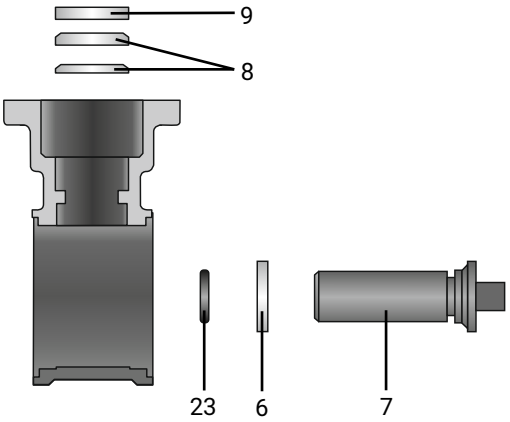
10. Remove the sealing washers **5** and seat seal **4** on both sides of the ball valve.



11. Move the ball to the closed position **b**.
12. Remove the ball **c**.



13. Carefully press the spindle **7** into the body and remove.



14. Remove the seals **9** and **8** upwards from the ball valve.

NOTICE

► Seal 8:
DN 8–50: 2 pieces
DN 65–100: 3 pieces

15. Remove the O-ring **23** from the spindle **7**.

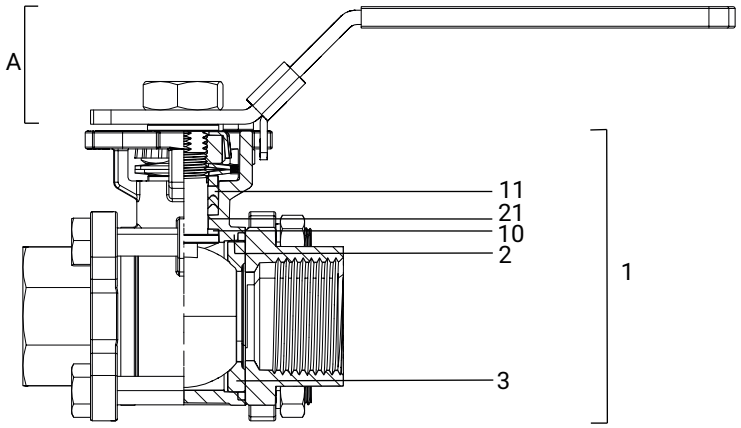
NOTICE

► O-ring **23** is not available for connection type spigots ASME BPE code 59.

16. Remove the seal **6** from the spindle **7**.
17. Mount the seals and the ball valve in reverse order.

15.2 Spare parts

15.2.1 Spare parts for connection types 1, 8, 11, 17, 19, 31, 60



Item	Name	Order description
1	Ball valve body assembly complete	BB02
2	Body seal	BB02 DN...SDS D60 5
3	Seat and flange seal	
10	Conical spindle seal	
11	V-ring spindle packing	
21	O-ring	
A	Hand lever complete	AB22 DN...

15.2.2 Spare parts for connection type 59

Item	Name	Order description
1	Ball valve body assembly complete	BB02
2	Body seal	BB02 DN...SDS D59 5
3	Seat and flange seal	
10	Conical spindle seal	
11	V-ring spindle packing	
21	O-ring	
A	Hand lever complete	AB22 DN...

16 Removal from piping

1. Remove the clamp or screw connections in reverse order to installation.
2. Remove welded or solvent cemented connections using a suitable cutting tool.
3. Observe the safety information and accident prevention regulations.

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 Conformity

CE Version 1

GEMÜ

EU-Konformitätserklärung

EU Declaration of Conformity

Wir, die Firma / We, the company

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

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

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

Produkt: GEMÜ B22

Produktname: Manuell betätigter 2/2-Wege-Kugelhahn

Product: GEMÜ B22

Product name: Manually operated 2/2-way ball valve

Richtlinien/Verordnungen:

Directives/Regulations:

PED 2014/68/EU[1)]

Folgende harmonisierte Normen (oder Teile hieraus) wurden angewandt:

EN ISO 1983:2013

Weitere angewandte Normen:

DIN EN ISO 5211; DIN EN 558; 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 II
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 Druckgeräterichtlinie 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 II
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, 17.11.2025

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Subject to alteration

12.2025 | 88711575