

## GEMÜ B20

Manually operated ball valve

EN **Operating instructions**



further information  
webcode: GW-B20



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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.

### 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:

 <b>DANGER</b>	
	<b>Imminent danger!</b> ▶ Non-observance can cause death or severe injury
 <b>WARNING</b>	
	<b>Potentially dangerous situation!</b> ▶ Non-observance can cause death or severe injury

 <b>CAUTION</b>	
	<b>Potentially dangerous situation!</b> ▶ Non-observance can cause moderate to light injury

<b>NOTICE</b>	
	<b>Potentially dangerous situation!</b> ▶ 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:

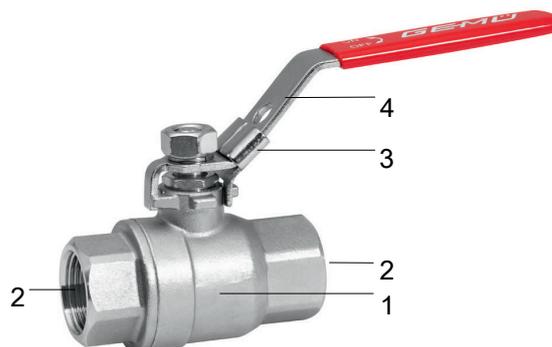
9. Keep this document available at the place of use.
10. Observe the safety information.
11. Operate the product in accordance with this document.
12. Operate the product in accordance with the specifications.
13. Maintain the product correctly.
14. Do not carry out any maintenance work and repairs not 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
1	Ball valve body	CF8M 1.4408 investment casting
2	Pipe connections	
3	Lock	201
4	Toggle	201

### 3.2 Description

The GEMÜ B20 2-piece 2/2-way metal ball valve is manually operated. It has a plastic sleeved lockable hand lever. The seat seal is made of PTFE.

### 3.3 Function

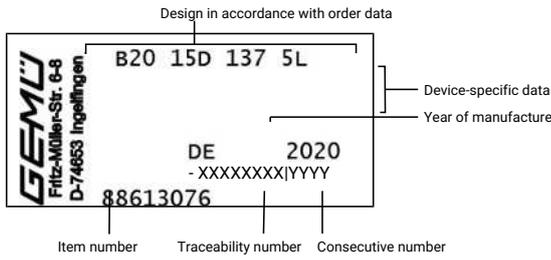
The product is a metal ball valve equipped with a plastic sleeved hand lever.

The ball valve can be continuously opened or closed.

The position of the ball valve can be secured using an appropriate lock (e.g. padlock). It is not included in the scope of delivery.

### 3.4 Product label

The product label is located on the body of the product.



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 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.

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.

## 5 Order data

The order data provide an overview of standard configurations.

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

### Order codes

1 Type	Code
Ball valve, metal, manually operated, two-piece, lockable toggle, low-maintenance spindle seal and blow-out proof shaft	B20

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

3 Body/ball configuration	Code
2/2-way body	D

4 Connection type	Code
Threaded socket DIN ISO 228	1
NPT female thread	31

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

6 Seal material	Code
PTFE FKM O-ring	5

7 Control function	Code
Manually operated, toggle, lockable	L

8 Special version	Code
Without	
Special version for oxygen Maximum temperature for medium: 100 °C, Operating pressure limited in accordance with product label data Media-wetted materials cleaned, and grease and seal tested in accordance with DIN EN 1797/ISO 21010	O
Explosion protection	X

### Order example

Ordering option	Code	Description
1 Type	B20	Ball valve, metal, manually operated, two-piece, lockable toggle, low-maintenance spindle seal and blow-out proof shaft
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 Special version		Without

## 6 Technical data

### 6.1 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.

### 6.2 Temperature

**Media temperature:** -40 – 180 °C  
 For the medium gaseous oxygen (special version code O): Media temperature max. 100 °C.

**Ambient temperature:** -40 – 60 °C

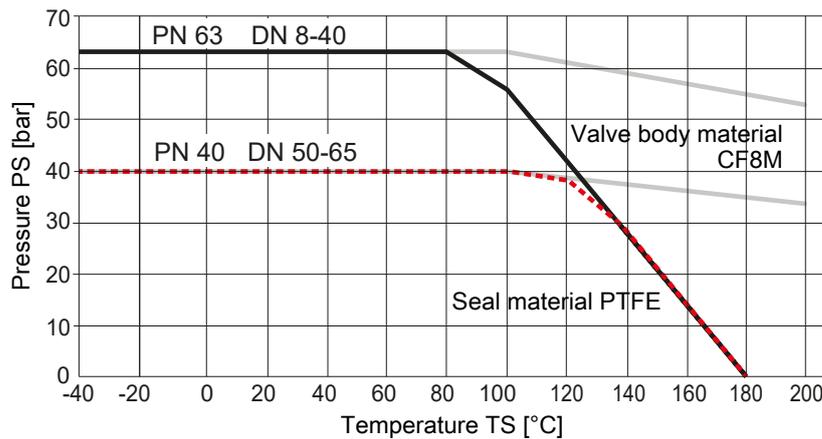
**Storage temperature:** -40 – 60 °C

### 6.3 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:**



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:**

DN	NPS	Kv values
8	1/4"	8.6
10	3/8"	21.0
15	1/2"	35.0
20	3/4"	46.0
25	1"	72.0
32	1¼"	105.0
40	1½"	170.0
50	2"	275.0
65	2½"	363.0

Kv values in m<sup>3</sup>/h

### 6.4 Product conformities

**Pressure Equipment Directive:** 2014/68/EU

**Gas:** DVGW

**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)

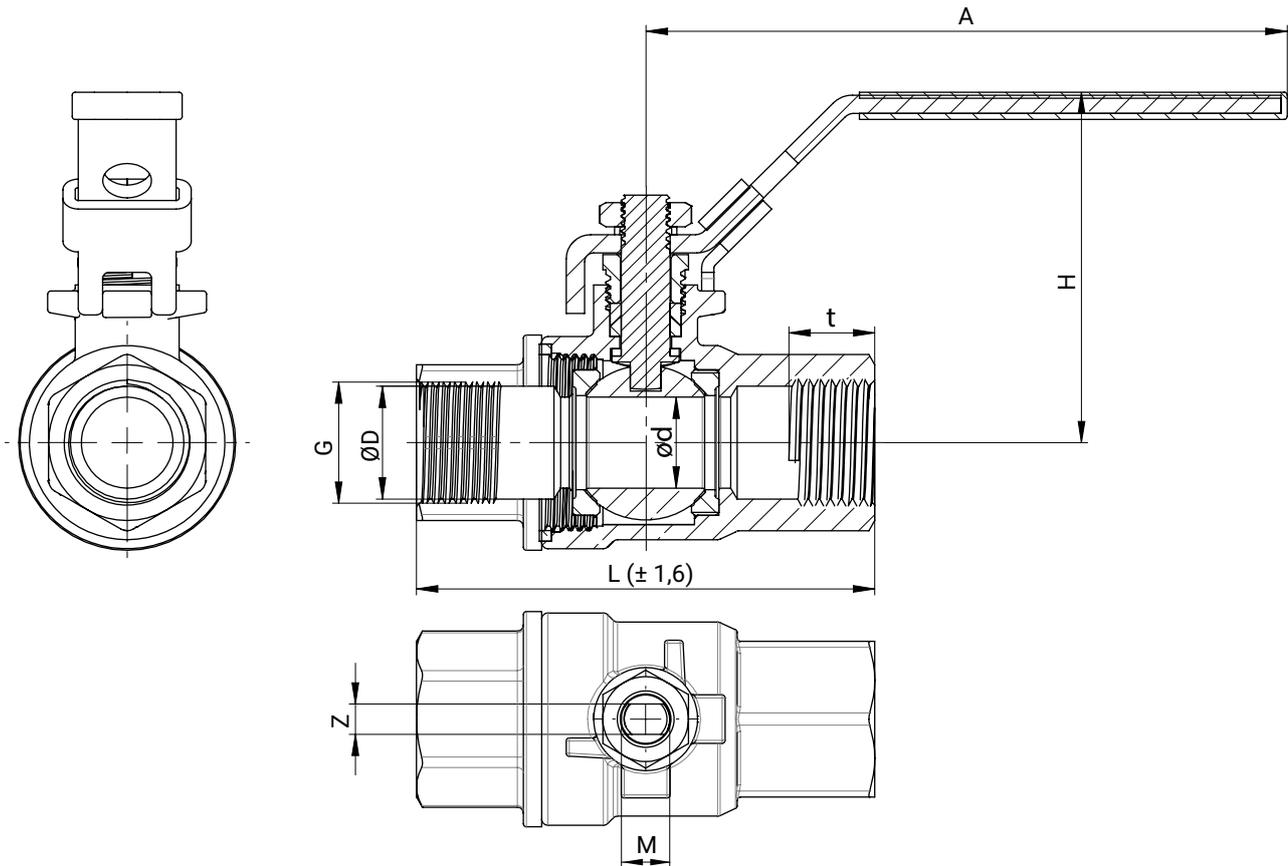
### 6.5 Mechanical data

**Weight:**

DN	NPS	Weight
8	1/4"	0.458
10	3/8"	0.458
15	1/2"	0.458
20	3/4"	0.520
25	1"	0.830
32	1¼"	1.292
40	1½"	1.915
50	2"	2.895
65	2½"	2.895

Weights in kg

## 7 Dimensions



DN	G	ød	ØD	A	L	H	t	M	Z
8	1/4"	12.0	15.0	92.0	55.0	49.0	11.0	M8	5.0
10	3/8"	12.0	15.0	92.0	60.0	49.0	11.0	M8	5.0
15	1/2"	15.0	18.6	105.0	75.0	52.0	14.0	M8	5.0
20	3/4"	20.0	24.2	124.0	80.0	63.0	14.0	M10	6.0
25	1"	25.0	30.3	130.0	90.0	67.0	16.0	M10	6.0
32	1¼"	32.0	39.0	140.0	110.0	80.0	22.0	M12	7.0
40	1½"	38.0	44.9	175.0	120.0	93.0	24.0	M14	9.0
50	2"	49.0	56.7	175.0	140.0	110.0	26.0	M14	9.0
65	2½"	64.0	72.6	220.0	185.0	117.0	31.0	M14	9.0

Dimensions in mm

## 8 Manufacturer's information

### 8.1 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.

### 8.2 Packaging

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

### 8.3 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.

### 8.4 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.

## 9 Installation in piping

### 9.1 Preparing for installation

 <b>WARNING</b>	
	<p><b>Risk of crushing due to moving parts when the valve is not installed!</b></p> <ul style="list-style-type: none"> <li>▶ Upper limbs may get into the valve body openings while working on the valve.</li> <li>● Ensure that the valve is in the respective end position.</li> <li>● Do not reach into the crushing area through the valve body openings.</li> </ul>

 <b>WARNING</b>	
	<p><b>The equipment is subject to pressure!</b></p> <ul style="list-style-type: none"> <li>▶ Risk of severe injury or death</li> <li>● Depressurize the plant or plant component.</li> <li>● Completely drain the plant or plant component.</li> </ul>

 <b>WARNING</b>	
	<p><b>Corrosive chemicals!</b></p> <ul style="list-style-type: none"> <li>▶ Risk of caustic burns</li> <li>● Wear appropriate protective gear.</li> <li>● Completely drain the plant.</li> </ul>

 <b>CAUTION</b>	
	<p><b>Falling product!</b></p> <ul style="list-style-type: none"> <li>▶ Risk of injury and damage to the product</li> <li>● Observe the weight in the technical data.</li> <li>● If necessary, use suitable lifting equipment.</li> </ul>

 <b>CAUTION</b>	
	<p><b>Hot plant components!</b></p> <ul style="list-style-type: none"> <li>▶ Burns</li> <li>● Only work on plant that has cooled down.</li> <li>● Wear protective gear.</li> </ul>

 <b>CAUTION</b>	
	<p><b>Maximum permissible pressure exceeded!</b></p> <ul style="list-style-type: none"> <li>▶ Damage to the product!</li> <li>● Provide for precautionary measures against exceeding the maximum permissible pressure that may be caused by pressure surges (water hammer).</li> </ul>

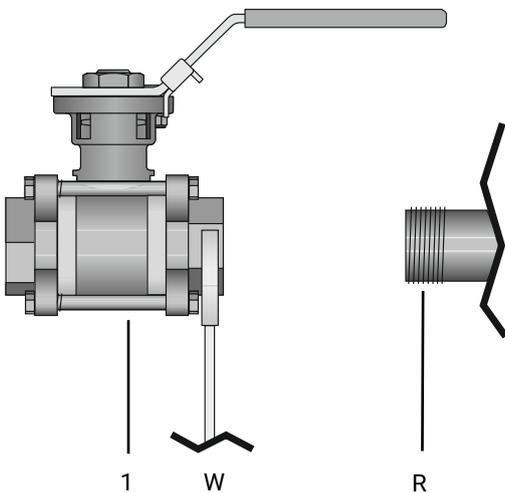
 <b>CAUTION</b>	
<p><b>Use as step!</b></p> <ul style="list-style-type: none"> <li>▶ Damage to the product</li> <li>▶ Risk of slipping-off</li> <li>● Choose the installation location so that the product cannot be used as a foothold.</li> <li>● Do not use the product as a step or a foothold.</li> </ul>	

<b>NOTICE</b>	
<p><b>Suitability of the product!</b></p> <ul style="list-style-type: none"> <li>▶ The product must be appropriate for the piping system operating conditions (medium, medium concentration, temperature and pressure) and the prevailing ambient conditions.</li> </ul>	

**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.

**9.2 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.

**9.3 After the installation**

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

**10 Commissioning****⚠ WARNING****Corrosive chemicals!**

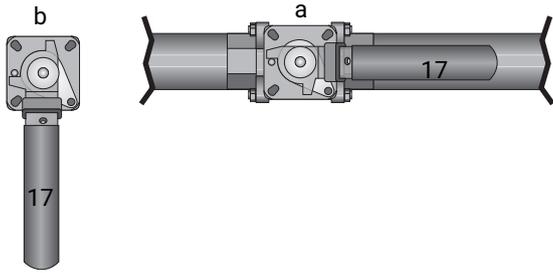
- ▶ Risk of caustic burns
- Wear appropriate protective gear.
- Completely drain the plant.

**⚠ 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).

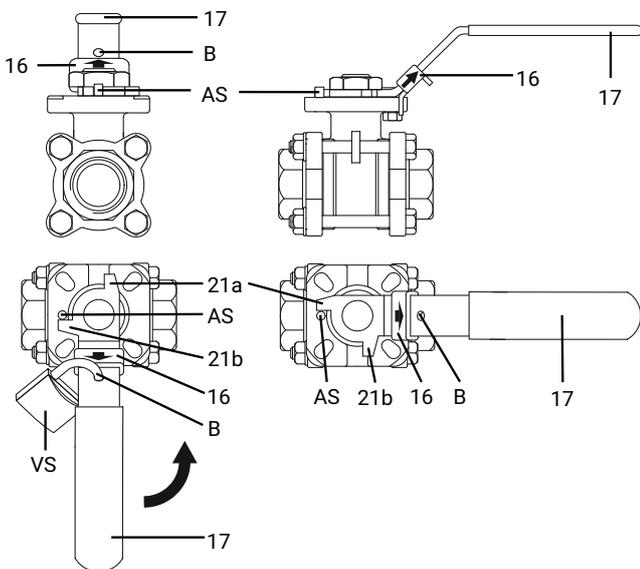
1. Check the tightness and the function of the product (close and reopen the product).
2. Flush the piping system of new plant and following repair work (the product must be fully open).
  - ⇒ Harmful foreign matter has been removed.
  - ⇒ The product is ready for use.
3. Commission the product.

**11 Operation**



17	Hand lever
a	Ball valve open
b	Ball valve closed

1. Move the hand lever 17 to the desired position.



**Fully open ball valve:**

Hand lever 17 with travel stop 21a abuts locking stop AS.

**Fully closed ball valve:**

Hand lever 17 with travel stop 21b abuts locking stop AS.

**NOTICE**

► The open position is infinitely variable but intermediate positions cannot be engaged and locked.

2. Lift the hand lever locking device 16 to enable turning the hand lever 17.
3. When the desired end position is reached push down the hand lever locking device 16 and make it engage (only possible when the ball valve is fully open or fully closed). The travel stops 21a and 21b abut the locking stop AS in each case.
4. When the ball valve is fully open or fully closed and the hand lever 17 is engaged, the position can be secured with an appropriate lock (e.g. padlock VS) in hole B in the hand lever 17 above the hand lever locking device 16.

## 12 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
	Thread leaking	Reseal thread
Valve body leaking	Valve body leaking or corroded	Check valve body for damage, replace valve body if necessary

### 13 Inspection/maintenance

 <b>WARNING</b>	
	<p><b>Risk of crushing due to moving parts when the valve is not installed!</b></p> <ul style="list-style-type: none"> <li>▶ Upper limbs may get into the valve body openings while working on the valve.</li> <li>● Ensure that the valve is in the respective end position.</li> <li>● Do not reach into the crushing area through the valve body openings.</li> </ul>

 <b>WARNING</b>	
	<p><b>The equipment is subject to pressure!</b></p> <ul style="list-style-type: none"> <li>▶ Risk of severe injury or death</li> <li>● Depressurize the plant or plant component.</li> <li>● Completely drain the plant or plant component.</li> </ul>

 <b>CAUTION</b>	
	<p><b>Hot plant components!</b></p> <ul style="list-style-type: none"> <li>▶ Burns</li> <li>● Only work on plant that has cooled down.</li> <li>● Wear protective gear.</li> </ul>

 <b>CAUTION</b>	
<ul style="list-style-type: none"> <li>● Servicing and maintenance work must only be performed by trained personnel.</li> <li>● Do not extend hand lever. GEMÜ shall assume no liability for damages caused by improper handling or third-party actions.</li> <li>● In case of doubt, contact GEMÜ prior to commissioning.</li> </ul>	

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.

### 14 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.

### 15 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.

### 16 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.

## 17 EU Declaration of Conformity



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 B20**Product:** GEMÜ B20**Produktname:** Manuell betätigter Kugelhahn**Product name:** Manually operated ball valve**Richtlinien/Verordnungen:****Directives/Regulations:**PED 2014/68/EU<sup>1)</sup>**Folgende harmonisierte Normen (oder Teile hieraus) wurden angewandt:**

EN ISO 1983:2013

**Weitere angewandte Normen:**

AD 2000

<sup>1)</sup> 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 Verfahrens- anweisungen 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.

<sup>1)</sup> 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, 14.11.2025GEMÜ Gebr. Müller Apparatebau GmbH & Co. KG  
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Subject to alteration

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