

GEMÜ B20

Manually operated ball valve



Features

- Lockable hand lever
- Length standardised to DIN 3202 M3
- High flow rate
- Low weight
- Compact design

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.

Technical specifications

- **Media temperature:** -40 to 180 °C
- **Ambient temperature:** -40 Up to 60 °C
- **Operating pressure :** 0 Up to 63 bar
- **Nominal sizes:** DN 8 to 65
- **Body configurations:** Straight through body
- **Connection types:** thread
- **Connection standards :** DIN | NPT
- **Body materials:** 1.4408, investment casting material
- **Seal materials:** PTFE
- **Conformities:** DVGW Gas | EAC | FDA | FMEDA | Functional safety | Reg. (EU) No. 10/2011 | Regulation (EC) No. 1935/2004

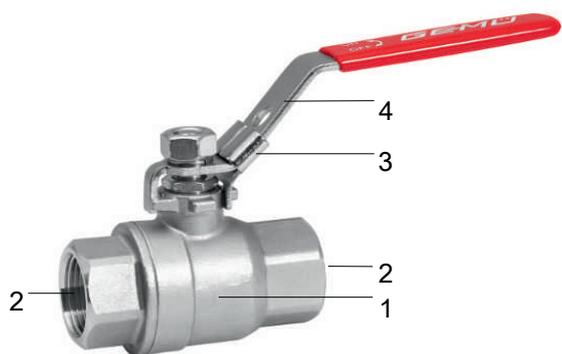
Technical data depends on the respective configuration



further information
webcode: GW-B20



Product description



Item	Name	Materials
1	Ball valve body	CF8M 1.4408 investment casting
2	Pipe connections	
3	Lock	201
4	Toggle	201

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

Technical data

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.

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

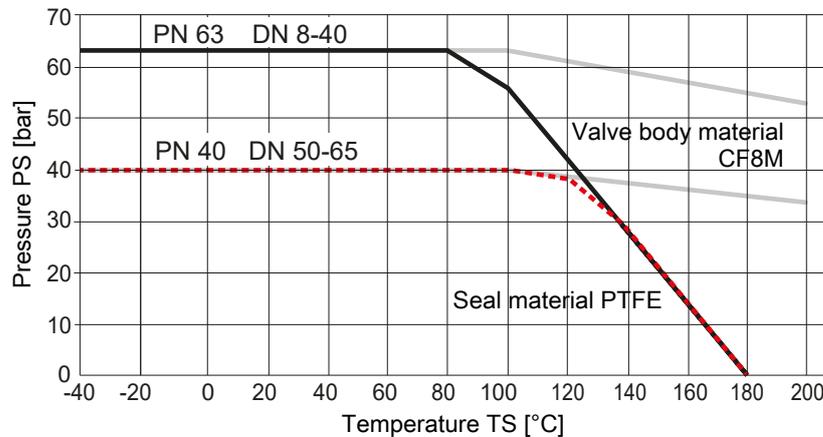
Storage temperature: -40 – 60 °C

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 m³/h

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)

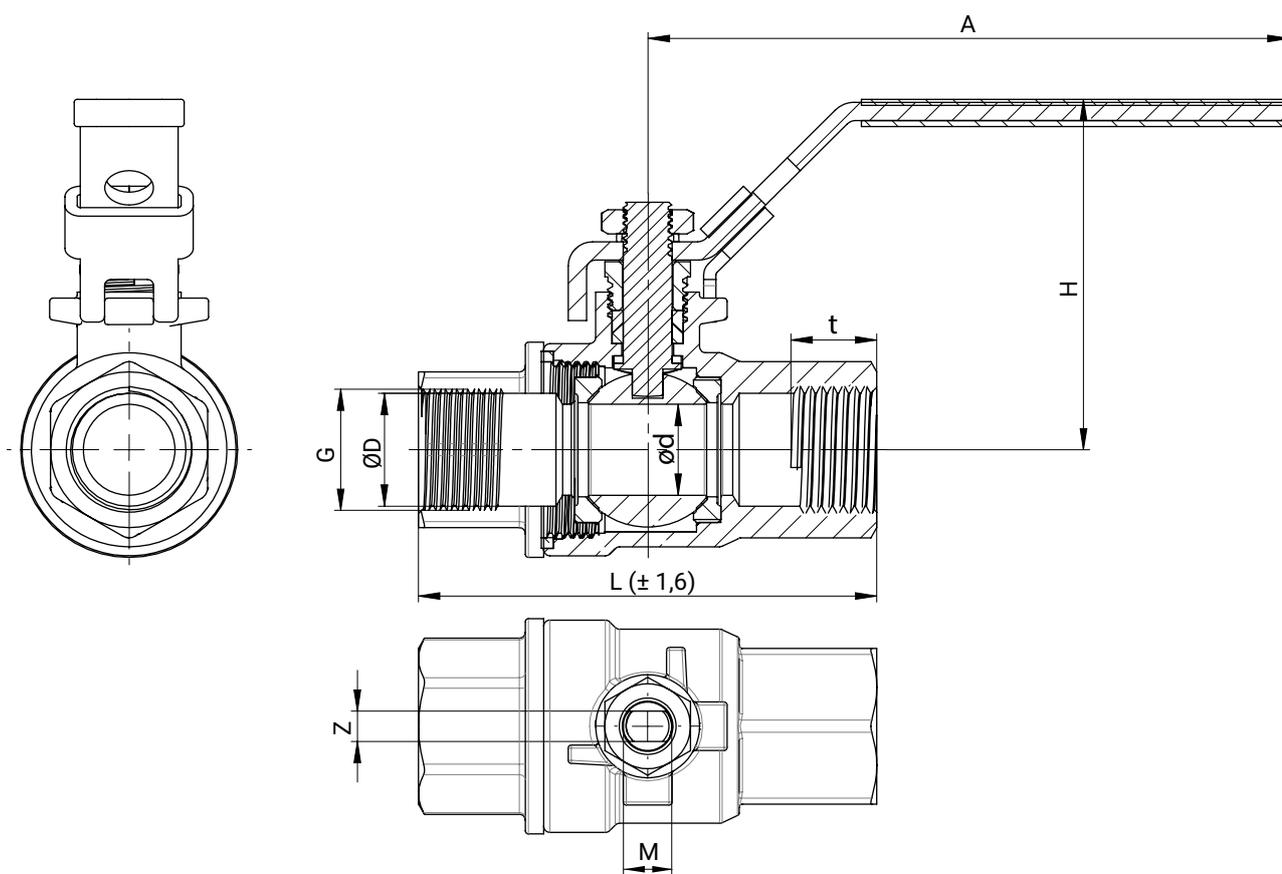
Mechanical data

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

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

Certificates

Certificate	Standard	Item number
3.1 Material	EN 10204	88333336



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