

Ball Valve

BMB

Type Series Booklet



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Type Series Booklet BMB

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Ball Valves

Two-piece Ball Valves

BMB



Main applications

- General industry
- Chemical industry
- Cooling circuits
- Air-conditioning systems
- Gas applications
- Food industry / beverage industry

Fluids handled

- Cooling water
- Oil
- Gas

Operating data

Table 1: Operating properties

Characteristic	Value
Nominal pressure	Class 800
Nominal pressure	PN 63
Nominal size [inch]	NPS 1/4 - 2
Max. permissible temperature [°C]	≤ +200

Valve body materials

Table 2: Overview of available materials

Material	Temperature limit
BMB	
ASTM A350 LF2	+200 °C
BMB INOX	
ASTM A 182 F316	+200 °C

Design details

Design

- BMB made of carbon steel
- BMB INOX made of stainless steel
- Tested to EN 12266-1
- Pipe thread to ANSI/ASME 1.20.1 (NPT)
- Pipe thread to ISO 7/1Rp (gas)
- Socket weld ends to ASME B16.11
- Butt weld ends to ASME B36.10 Schedule 80
- Two-piece ball valve
- PTFE gasket

Variants

- Larger nominal sizes

Product benefits

- Shaft in anti-blow out design
- Anti-static device

Product information

Product information as per Regulation No. 1907/2006 (REACH)

For information as per European chemicals regulation (EC) No. 1907/2006 (REACH) see <https://www.ksb.com/en-global/company/corporate-responsibility/reach>.

Related documents

Table 3: Information/documents

Document	Reference number
Operating manual	0670.83

Purchase order specifications

Please specify the following information in all enquiries or purchase orders:

1. Type
2. Nominal pressure
3. Nominal size
4. Variants
5. Number of type series booklet

Pressure/temperature ratings

Table 4: Permissible operating pressures in bar at temperatures in °C

Nominal pressure	Nominal size	Permissible operating pressures ¹⁾
PN	NPS	Up to +200 °C
	[inch]	
63	¼ - 2	63

Materials

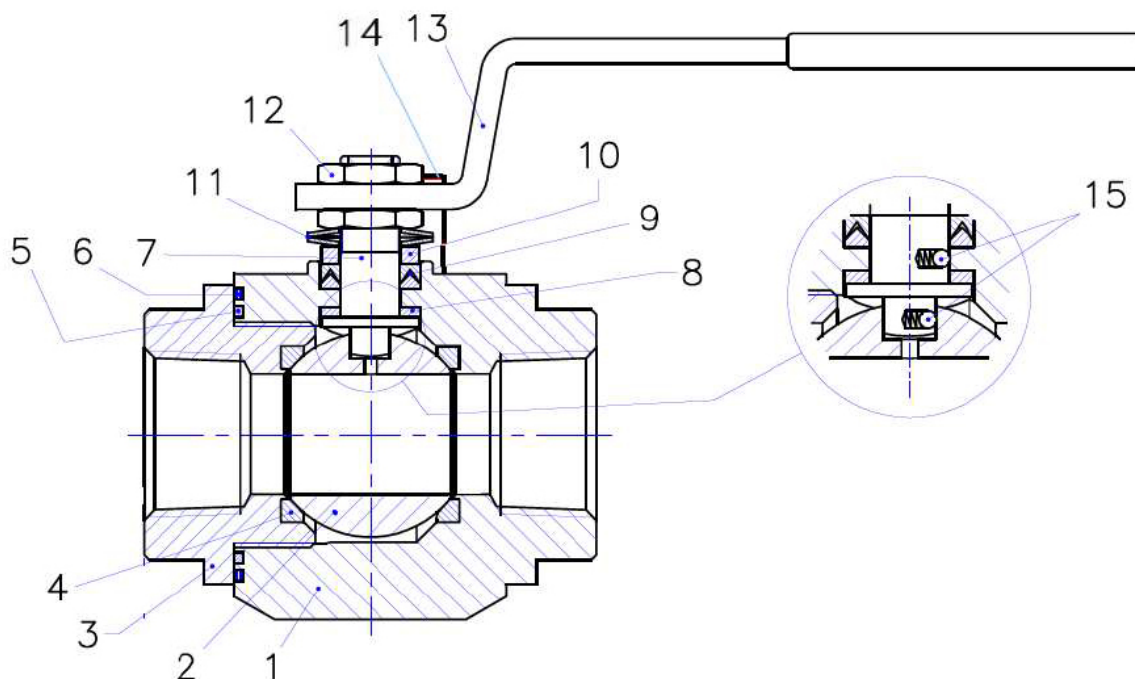


Fig. 1: Sectional drawing

Table 5: Parts list

Part No.	Description	Material	Note
1	Body	ASTM A 350 LF2	BMB
		ASTM A 182 F316	BMB INOX
2	Ball	AISI 304	BMB
		AISI 316	BMB INOX
3	End cap	ASTM A 350 LF2	BMB
		ASTM A 182 F316	BMB INOX
4	Gasket	Glass fibre reinforced PTFE	-
5	Gasket	Glass fibre reinforced PTFE	-
6	O-ring	VITON	-
7	Shaft	ASTM A 182 F304	BMB
		ASTM A 182 F316	BMB INOX
8	Seat ring	PTFE + graphite	-
9	Shaft packing	PTFE + graphite	-
10	Packing ring	Nickel-plated carbon steel	-
11	Spring washer	Nickel-plated carbon steel	-
12	Nut and locknut	Nickel-plated carbon steel	BMB
		Stainless steel A2	BMB INOX

¹ Static load

Part No.	Description	Material	Note
13	Lever	Nickel-plated carbon steel	-
14	Stop	AISI 304	-
15	Anti-static device	Stainless steel	-

Dimensions and weights

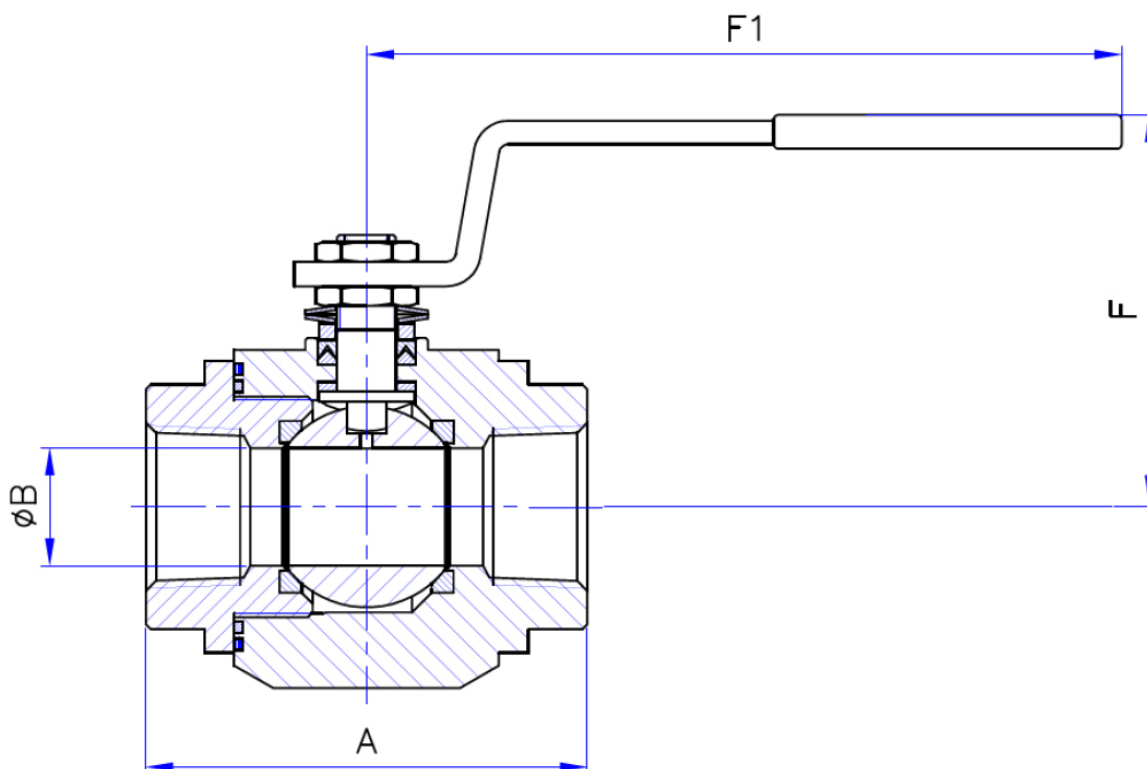


Fig. 2: Sectional drawing

Table 6: Dimensions and weights

Class	NPS [inch]	ØB [mm]	F [mm]	A [mm]	F1 [mm]	[kg]
800	1/4	10	60	65	130	0,6
	3/8	10	60	65	130	0,6
	1/2	14	60	73	130	0,8
	3/4	19	70	90	130	1,5
	1	24	80	98	160	2
	1 1/4	30	85	104	160	3
	1 1/2	38	100	125	240	4
	2	49	106	154	240	7

Mating dimensions as per standard

Face-to-face lengths: Manufacturer's standard
 Pipe threads: ANSI/ASME 1.20.1 (NPT)
 ISO 7/1Rp (gas)
 Socket weld ends: ASME B16.11
 Butt weld ends: ASME B36.10 Schedule 80



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