



PROFACTOR®
DER DEUTSCHE QUALITÄTSSTANDARD

EN

TECHNICAL DATA SHEET AND USER MANUAL



PRODUCT CODE

PF BMV 351
PF BMV 352
PF BMV 352.10
PF BMV 353
PF BMV 353.10

**BALL VALVE "MINI" FOR
HOUSEHOLD APPLIANCES**

1. PURPOSE AND SCOPE

The ball valve "MINI" for household appliances is used as shut-off equipment on pipelines for drinking water, domestic, and industrial applications, hot water supply, heating, compressed air, liquid hydrocarbons, as well as on process pipelines conveying liquid media that are non-corrosive to the product materials: water, glycol-based solutions. Maximum glycol content up to 50%.

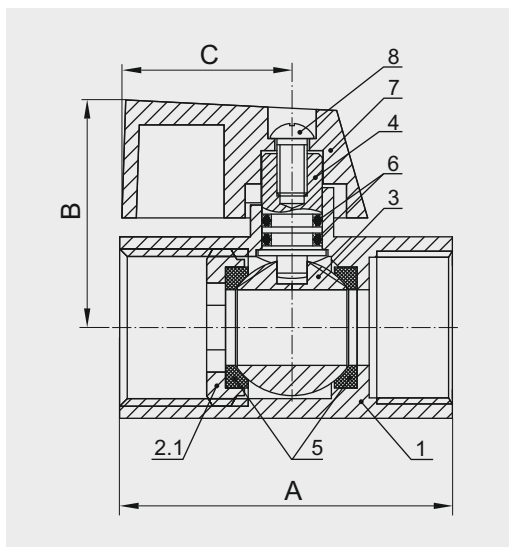
The reduced-port ball valve "MINI" can be installed in locations where a standard ball valve cannot be fitted (e.g., when connecting household appliances, in manifold systems within manifold cabinets), thanks to its compact size.

2. TECHNICAL SPECIFICATIONS

Product Code	PF BMV	351	352	353	352.10	353.10
Connection Thread Type	—	M/M	M/F	F/F	M/F	F/F
Nominal Size	DN	15			10	
	G	1/2"			3/8"	
Maximum Working Pressure	bar	10				
Operating Temperature	°C	−10°C to +100°C				
Maximum Ambient Temperature	°C	50°C				
Seat Tightness Class	—	“A”				
A	mm	46	44	47	41	44
B	mm	30			27	
C	mm	23				
Weight	g	121	107	110	85	100
Average Service Life	years	20				

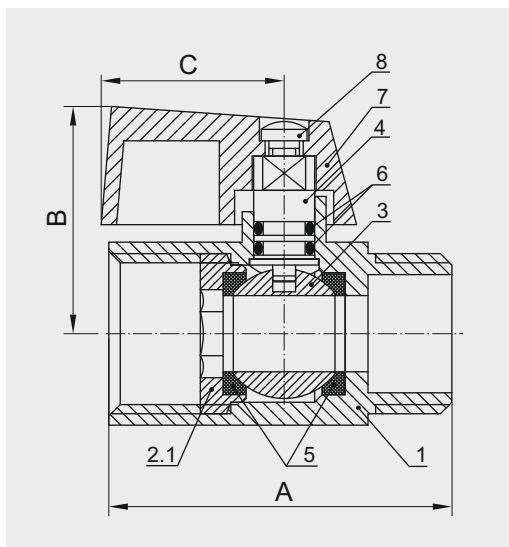
3. DESIGN

Ball Valve "MINI", F/F



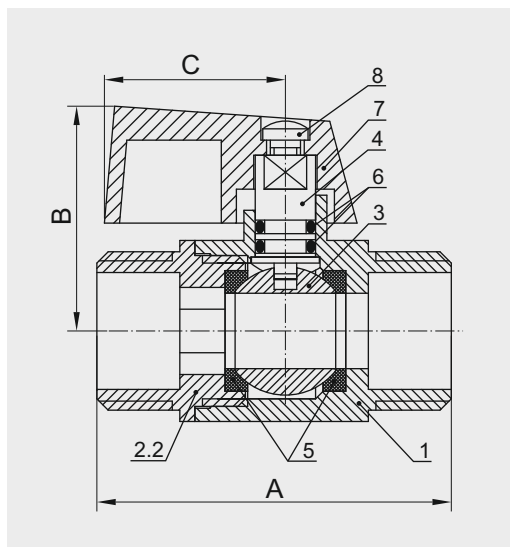
- 1 – Body
- 2.1 – Threaded Bushing
- 3 – Ball
- 4 – Stem
- 5 – Ball Seat Rings
- 6 – Stem Seal Rings (O-rings)
- 7 – Handle
- 8 – Stopscrew

Ball Valve "MINI", F/M



- 1 – Body
- 2.1 – Threaded Bushing
- 3 – Ball
- 4 – Stem
- 5 – Ball Seat Rings
- 6 – Stem Seal Rings (O-rings)
- 7 – Handle
- 8 – Stopscrew

Ball Valve "MINI", M/M



- 1 – Body
- 2.2 – Threaded Insert
- 3 – Ball
- 4 – Stem
- 5 – Ball Seat Rings
- 6 – Stem Seal Rings (O-rings)
- 7 – Handle
- 8 – Stopcrew

The valve's shut-off element is a chrome-plated brass ball (3), sealed by seat rings (5). The ball is actuated by a brass stem (4). The valve stem is inserted from inside the body (1) and has a positive stop shoulder. Stem sealing is ensured by two O-rings (6).

A handle (7) is attached to the protruding end of the stem using a stopcrew (8).

All pipe threads are in an accordance with ISO 228-1:2000, DIN 259, and all metric threads are in an accordance with ISO 261:1998.

4. MATERIALS

Body (1) and Threaded insert (2.2) — Brass CW617N (DIN EN 12165-2011), chrome-plated

Bushing (2.1) — Brass CW617N (DIN EN 12165-2011)

Ball (3) and Stem (4) — Brass CW614N (DIN EN 12165-2011), ball surfaces are chrome-plated

Ball seat rings (5) — PTFE

Stem seal rings (6) — NBR

Handle (7) — Aluminum (DIN EN 1676-2010)

5. OPERATING PRINCIPLE

Flow shut-off is achieved by turning the handle 90° clockwise.

6. INSTALLATION INSTRUCTIONS

The valve may be installed in any orientation. Before installing the valve, the pipeline must be cleaned of rust, dirt, scale, sand, and other foreign particles that could affect the product's performance.

The valve handle must be either in the fully open or fully closed position. The use of ball valves as regulating equipment is not permitted.

Heating systems, heat supply systems, and hot and cold water supply systems must be flushed with water upon completion of installation until the effluent is clear of mechanical suspensions. The valve must not be subjected to loads from the pipeline (bending, compression, tension, torsion, misalignment, vibration, pipe misalignment, uneven tightening of fasteners).

If necessary, supports or compensators must be provided to reduce the load on the product from the pipeline. The misalignment of the connected pipelines must not exceed 3 mm for lengths up to 1 m, plus 1 mm for each subsequent meter.

The valve must be installed in a way that ensures free access to the shut-off handle. The product must be securely fastened to the pipeline; leakage of the working fluid along the threaded connection is not permitted.

Threaded connections must be made using PTFE-tape (polytetrafluoroethylene), polyamide thread with silicone, or flax as sealing thread compound. Care must be taken to ensure that excess material does not enter the ball valve's shut-off mechanism. Verify the installation is correct.

When installing ball valves "MINI", the following tightening torques must not be exceeded: PF BMV 352.10 and PF BMV 353.10 — 15 Nm; PF BMV 351, PF BMV 352, and PF BMV 353 — 25 Nm.

After installation, sanitary system assemblies must be tested for leaks. They must be subjected to hydrostatic (hydraulic) or bubble (pneumatic) testing.

7. OPERATION AND MAINTENANCE

The ball valve "MINI" for household appliances must be operated without exceeding the pressure and temperature specified in the Technical Specifications table. For proper long-term operation, it is recommended to operate (open/close) the valve once a month as a preventive measure.

8. WARRANTY OBLIGATIONS

The warranty period is 60 months from the date of sale to the end consumer. Throughout the entire warranty period, the manufacturer guarantees the proper functioning of the product and its compliance with safety requirements, provided that the consumer follows the rules for storage, transportation, installation, operation, and maintenance of the product. The warranty covers all defects arising through the manufacturer's fault.

The warranty does not cover defects resulting from:

- Violation of storage, transportation, installation, operation, or maintenance conditions;
- Exposure to substances aggressive to the materials of the product;
- Signs of mechanical damage;
- Damage caused by fire, natural disasters, or other force majeure circumstances;
- Damage caused by improper actions of the user;
- Evidence of unauthorized interference with the product design.

The product described in this technical manual is a technically complex device that must be installed by a qualified specialist with appropriate experience working with this type of equipment.

Installation and commissioning must be carried out by an authorized and certified company.

Profactor Armaturen GmbH reserves the right to make changes to the product design that do not affect its technical characteristics or functional features.



INTERNATIONAL WARRANTY CARD

NAME OF THE PRODUCT

PRODUCT CODE, SIZE

QUANTITY

SELLER NAME AND ADDRESS

DATE OF PURCHASE

SELLER STAMP

SELLER SIGNATURE

For the warranty term refer to the Warranty obligation clause in the technical manual

FOLD LINE

FOLD LINE

In case of any claims to the product quality the following documents should be submitted:

1. Application with customer and product details:

- Name of the customer, actual address and phone number
- Article of the product
- Reason for the claim and photo
- Plumbing system where installed (name, address, phone number)

2. Invoice copy and receipt

3. Warranty card

RETURN/EXCHANGE COMMENTS

DATE

SIGNATURE



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