



PROFACTOR®
DER DEUTSCHE QUALITÄTSSTANDARD

EN

TECHNICAL DATA SHEET AND USER MANUAL



**PRODUCT
CODE**

**PF BAV 354
PF BAV 355**

**ANGLE CHROME-PLATED BALL VALVE
FOR HOUSEHOLD APPLIANCES**

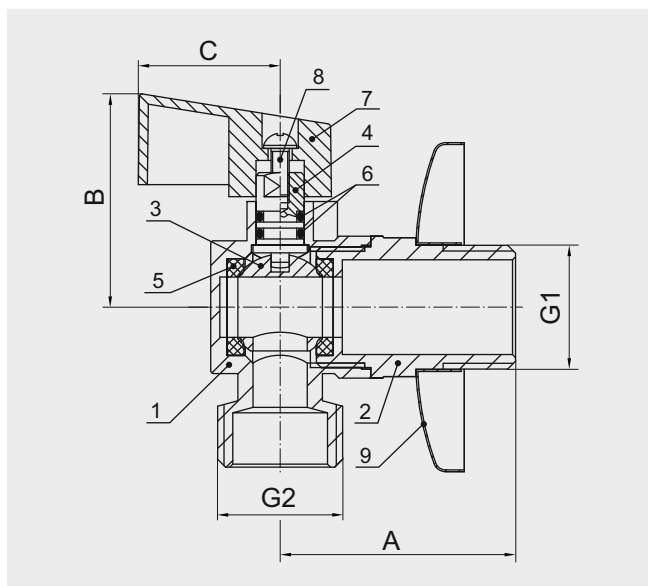
1. PURPOSE AND SCOPE

The angle semi-bore ball valve is used to connect household appliances — such as washing machines, dishwashers, water heaters, mixers, and toilet cisterns — to cold and hot water supply pipelines. It may also be used in other piping systems transporting media that are non-aggressive to the valve materials, such as water and glycol-based solutions. The maximum glycol content in the medium should not exceed 50%.

2. TECHNICAL SPECIFICATIONS

Product Code	PF BAV	354	355
Nominal size	DN	15x15	15x20
	G1xG2	1/2"x1/2"	1/2"x3/4"
Maximum operating pressure	bar	10	
Operating medium temperature	°C	– 10°C to + 100°C	
Maximum ambient temperature	°C	50°C	
A	mm	40	
B	mm	35	
C	mm	25	
Weight	g	137	143
Average service life	year	20	

3. DESIGN



- | | |
|-----------------------|----------------------------------|
| 1 – Body | 6 – Stem sealing rings (O-rings) |
| 2 – Adaptor (fitting) | 7 – Handle |
| 3 – Ball | 8 – Locking screw |
| 4 – Stem | 9 – Reflector (decorative cover) |
| 5 – Ball seat rings | |

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

The adaptor (2) is screwed into the body until it stops, clamping the chrome-plated ball (3) between the two seat rings (5), thus ensuring the tightness of the shut-off mechanism. The handle (7) is fixed to the protruding end of the stem with a locking screw (8).

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

The valve is additionally equipped with a decorative reflector (9).

4. MATERIALS

Body (1) and Adaptor (2) — Brass CW617N (DIN EN 12165–2011), chrome-plated surface.

Ball (3) and Stem (4) — Brass CW614N (DIN EN 12165–2011), the ball surface is chrome-plated.

Ball seat rings (5) — PTFE.

Stem sealing rings (6) — NBR.

Handle (7) — Aluminum (DIN EN 1676–2010), chrome-plated surface.

Reflector (9) — Stainless steel AISI 304 (DIN EN 10088–2005).

5. OPERATING PRINCIPLE

The flow is shut off by turning the handle 90° clockwise.

6. INSTALLATION INSTRUCTIONS

The valve can be installed in any position.

Before installation, the pipeline must be cleaned of rust, dirt, scale, sand, and other foreign particles that may affect the performance of the product.

After completing the installation of hot and cold water systems, the pipelines must be flushed with water until it runs clear, without mechanical impurities. The valve must not be subjected to pipeline loads such as bending, compression, tension, torsion, misalignment, vibration, or uneven tightening of fasteners.

The misalignment of the connected pipelines must not exceed 3 mm per 1 meter of length, plus 1 mm for each additional meter.

The valve must be installed so as to ensure free access to the shut-off handle. The product must be securely fixed to the pipeline; leakage of the working medium through the threaded section is not allowed.

Threaded connections must be made using PTFE-tape (fluoroplastic sealing material), polyamide thread with silicone, or flax fiber as sealing material. Care must be taken to prevent excess sealing material from entering the shut-off mechanism of the ball valve. Check the correctness of the installation.

After installation, the sanitary system assemblies must be tested for tightness. They should be tested by hydrostatic (hydraulic) or bubble (pneumatic) methods.

7. OPERATION AND MAINTENANCE

The angle semi-bore ball valve must be operated without exceeding the pressure and temperature limits specified in the Technical Specifications table.

Installation and removal of the product must be carried out only when there is no pressure in the system. Allow the equipment to cool down to ambient temperature before performing any work.

The use of the valve in environments containing abrasive components is not recommended, as this may reduce its service life. Therefore, when using the valve in systems that transport media with a high content of mechanical impurities, additional filtration equipment must be installed at the inlet.

To ensure proper long-term performance, it is recommended to open and close the valve once a month as a preventive measure.

8. WARRANTY OBLIGATIONS

The warranty period is 24 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



Profactor Armaturen GmbH

Ruffinallee 9, c/o Kanzlei Antegra, 82166 Gräfelfing, Germany;
Tel.: +49 89 21546092; info@pf-armaturen.de; www.profactor.de