



PROFACTOR®
DER DEUTSCHE QUALITÄTSSTANDARD

EN

TECHNICAL DATA SHEET AND USER MANUAL



**PRODUCT
CODE**

**PF BAV 357
PF BAV 357C
PF BAV 358**

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

1. PURPOSE AND SCOPE

The chrome-plated angled ball valve is used for connecting household appliances (such as washing machines, dishwashers, water heaters, mixers, flush tanks, etc.) to cold and hot water supply pipelines, as well as to other pipelines transporting media that are non-aggressive to the valve materials — such as water and glycol-based solutions. The maximum glycol content is up to 50%.

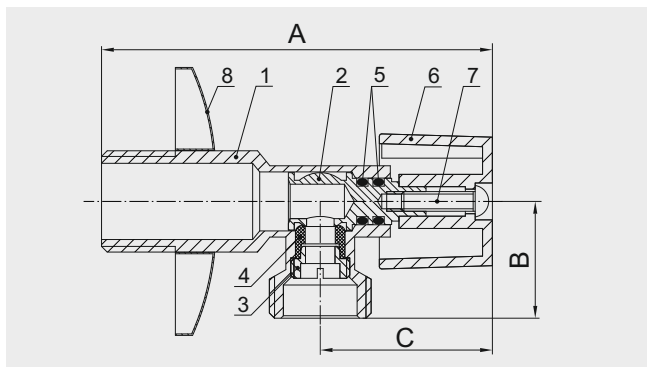
The PF BAV 357C valve model is equipped with a compression collet for connecting a mixer using copper pipes with a diameter of 10 mm.

2. TECHNICAL SPECIFICATIONS

Product Code	PF BAV	357	357C	358
Nominal size	DN	15x15	15x10	15x20
	G	1/2"x1/2"	1/2"x10mm	1/2"x3/4"
Maximum working pressure	bar	10		
Working medium temperature	°C	+5°C to +95°C		
Maximum ambient temperature	°C	50°C		
A	mm	80		
B	mm	24	28	26,5
C	mm	34		
Weight	g	116	126	120
Average service life	years	15		

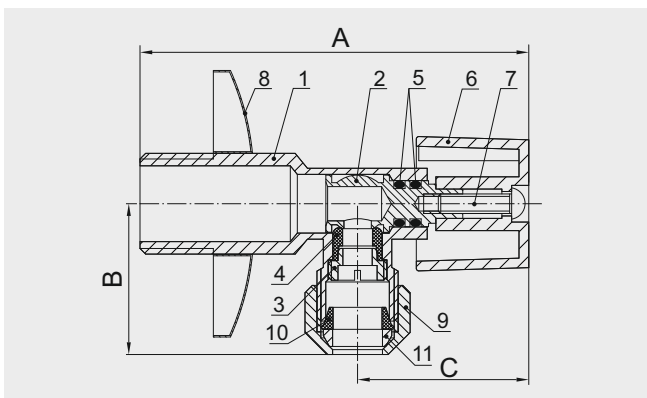
3. DESIGN

Chrome-Plated Angled Ball Valve



- | | |
|--|----------------------------------|
| 1 – Body | 5 – Sealing rings |
| 2 – Stem with integrated ball shut-off | 6 – Handle |
| 3 – Bushing | 7 – Locking screw |
| 4 – Shut-off seal | 8 – Reflector (decorative cover) |

Chrome-Plated Angled Ball Valve with Collet



- | | |
|--|----------------------------------|
| 1 – Body | 7 – Locking screw |
| 2 – Stem with integrated ball shut-off | 8 – Reflector (decorative cover) |
| 3 – Bushing | 9 – Collet nut |
| 4 – Shut-off seal | 10 – Collet cone |
| 5 – Sealing rings | 11 – Clamping ring |
| 6 – Handle | |

The shut-off element of the valve is the stem (2), which has a thickened, ball-shaped section. The stem is inserted into the body (1) from the inside and features a limiting collar. Tightness of the shut-off mechanism is ensured by the seal (4), which is tightly pressed against the ball-shaped section of the stem by the bushing (3). The sealing rings (5) prevent leakage of the working medium along the stem, under the valve handle. The handle (6) is fixed on the protruding end of the stem using the locking screw (7).

The PF BAV 357C valve model comes equipped with a compression collet for connecting a 10 mm copper tube.

All cylindrical 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.

The valve is additionally supplied with a decorative reflector (8).

4. MATERIALS

Body (1): Brass CW617N (DIN EN 12165-2011), chrome-plated surface
 Stem with integrated ball shut-off (2): Brass CW617N (DIN EN 12165-2011)
 Bushing (3): Brass CW617N (DIN EN 12165-2011), nickel-plated surface
 Sealing rings (5), Shut-off seal (4), and Collet cone (10): NBR rubber
 Handle (6): Zinc alloy, chrome-plated surface
 Collet nut (9) and Clamping ring (11): Brass CW614N (DIN EN 12165-2011), Nut surfaces chrome-plated
 Decorative reflector (8): Stainless steel AISI 304 (DIN EN 10088-2005)

5. OPERATING PRINCIPLE

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

6. INSTALLATION INSTRUCTIONS

Before installation, the pipeline must be thoroughly cleaned of rust, dirt, scale, sand, and other foreign particles that could affect the valve's performance.

After installation of hot and cold water supply systems, they must be flushed with water until it runs clear, free from mechanical impurities.

The valve must not be subjected to mechanical loads from the pipeline such as bending, compression, tension, twisting, misalignment, vibration, or uneven tightening of fasteners.

Misalignment between connected pipelines must not exceed 3 mm for a 1 m length, plus 1 mm for each additional meter.

The valve can be installed in any position. The product must be installed in such a way that free access to the handle is ensured. The valve must be securely fixed on the pipeline, and leakage of the working medium through the threaded connection (or from under the compression collet) is not permitted.

Threaded connections must be made using PTFE-tape (polytetrafluoroethylene), polyamide thread with silicone, or flax fiber as the sealing material. It is important to ensure that excess sealing material does not enter the valve's shut-off mechanism. Check the correctness of installation.

After installation, plumbing system assemblies must be tested for tightness. They should be tested using either the hydrostatic (hydraulic) or bubble (pneumatic) method.

7. OPERATING AND MAINTENANCE

The valve must be operated without exceeding the pressure and temperature limits specified in the technical specifications table.

Installation and removal of the product, as well as any repair operations, must be carried out only when the system is depressurized. Allow the equipment to cool to ambient temperature before performing any work.

The valve is not recommended for use in media containing abrasive particles, as this may reduce its service life. Therefore, when the valve is used in systems transporting media with a high content of mechanical impurities, additional filtering equipment must be installed at the inlet.

To ensure proper long-term operation, it is recommended to open and close the valve once a month as preventive maintenance. Operation of the valve with a loose handle fixing screw is not permitted.

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



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