



PROFACTOR®
DER DEUTSCHE QUALITÄTSSTANDARD

EN

TECHNICAL DATA SHEET AND USER MANUAL



PRODUCT
CODE

PF BBC 328
PF BBC 328W
PF BBC 329
PF BBC 329W

BIBCOCK BALL VALVE

1. PURPOSE AND SCOPE

The bibcock ball valve is used as a draw-off fitting in pipelines of cold (drinking, domestic, and industrial) and hot water supply systems, as well as in process pipelines carrying liquids that are non-aggressive to the materials of the valve.

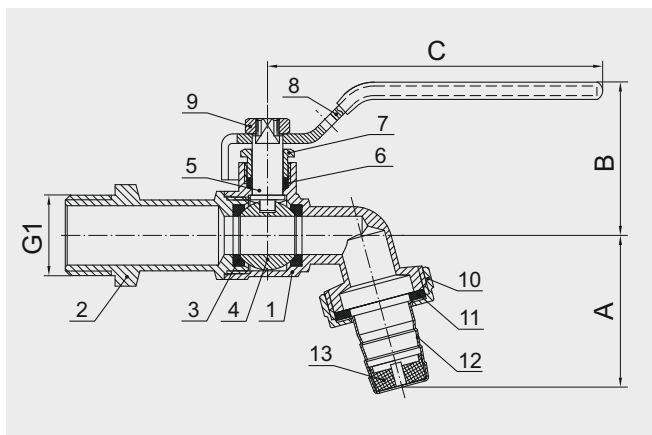
The valve is equipped with a removable hose tail connector for connecting a drain hose.

2. TECHNICAL SPECIFICATIONS

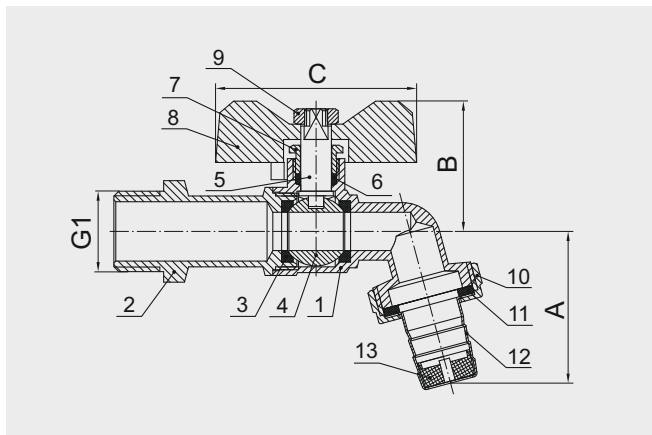
Product Code	PF BBC	328	329	328W	329W
Type of handle	—	Handle – lever		Handle – butterfly	
Nominal size	DN	15	20	15	20
	G1	1/2"	3/4"	1/2"	3/4"
Thread for union nut	G2	3/4"	1"	3/4"	1"
Nominal (rated) pressure PN	bar	16			
Pressure of the leak-tight connection between nozzle and hose under artificially closed flow conditions	bar	Not more than 4			
Working medium temperature	°C	0°C to +100°C			
Flow coefficient Kvs at $\Delta p = 1$ bar	m ³ /h	48	48	48	48
Average service life	Cycles	5000			
A	mm	39,5	48	39,5	48
B	mm	40	42	34	36,5
C	mm	87,5		52,5	
Weight	g	185	242	169	224
Average service life	years	15			

3. DESIGN

Handle – lever



Handle – butterfly



- 1 – Body
- 2 – Body bushing
- 3 – Ball seat rings
- 4 – Ball
- 5 – Stem
- 6 – Stem packing
- 7 – Compression sleeve

- 8 – Handle (lever or butterfly)
- 9 – Handle fixing nut
- 10 – Union nut
- 11 – Hose tail connector gasket
- 12 – Hose tail connector
- 13 – Flow distributor

The connection between the body (1) and the body bushing (2) is fixed with a polymer anaerobic adhesive approved for contact with drinking water (WRAS-certified).

The shut-off mechanism of the valve consists of a chrome-plated brass ball (4) operated by a vertical brass stem (5) and sealed by ball seat rings (3). The stem packing (6), together with a brass threaded compression sleeve (7), ensures stem tightness. The valve stem is non-blowout type, as it is inserted from inside the body (1) and has a retaining shoulder.

The handle (8) is mounted on the stem end with a nut (9). Models PF BBC 328 and PF BBC 329 are equipped with a lever handle, while models PF BBC 328W and PF BBC 329W have a butterfly handle. Both handle types include a sealing (locking) hole for wire sealing.

All pipe cylindrical 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

The body (1), Body bushing (2), Hose tail connector (12), and Union nut (10) — Brass CW617N (DIN EN 12165:2011), with nickel-plated surfaces.

The Ball (4), Stem (5), and Compression sleeve (7) — Brass CW614N (DIN EN 12165:2011), Ball surfaces chrome-plated.

Ball seat rings (3) and Stem packing (6) — PTFE.

Nut (9) — Structural steel S235JR (DIN EN 10025:2005).

Handle (8):

- Butterfly type — Aluminium with paint coating (DIN EN 1676:2010);
- Lever type — Structural steel S235JR (DIN EN 10025:2005) with PVC coating.

Hose tail connector (11) — NBR.

Flow distributor (13) — ABS.

5. OPERATION PRINCIPLE

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

6. INSTALLATION INSTRUCTIONS

The bibcock ball valve is recommended to be installed in a horizontal position. Before installation, the pipeline must be cleaned of rust, dirt, scale, sand, and other foreign particles that may affect the proper operation of the valve.

Upon completion of installation, hot and cold water supply systems must be flushed with water until it runs clear and free from suspended solids.

The valve must be installed in such a way that free access to the shut-off handle is ensured. The product must be securely fastened to the pipeline, and leakage of the working fluid through the threaded part is not allowed.

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

When installing the valve, it is prohibited to use pipe wrenches (KTR) larger than size No. 2. The wrench may only be applied to the hexagonal portion of the valve fitting. Check the correctness of the installation.

After installation, all units of the plumbing system must be tested for tightness. They must be subjected to hydrostatic (hydraulic) or bubble (pneumatic) testing.

7. OPERATION AND MAINTENANCE

The bibcock ball valve must be operated without exceeding the pressure and temperature limits specified in the technical data 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 working on it.

The valve must not be operated with a loose handle retaining nut, as this may damage the stem tailpiece.

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

For proper long-term operation, it is recommended to open and close the valve once a month as a preventive measure. If a slight leakage occurs at the valve stem under the handle during operation, the handle should be removed and the packing gland tightened until the leakage stops.

Flexible hoses should be fastened to the valve hose tail connector using standard screw clamps. It is prohibited to use any kind of wire for fastening hoses.

8. WARRANTY OBLIGATIONS

The warranty period is 84 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

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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