



**PROFACTOR®**  
DER DEUTSCHE QUALITÄTSSTANDARD

EN

## TECHNICAL DATA SHEET AND USER MANUAL



PRODUCT  
CODE

PF BS 588

**WATER HAMMER ARRESTER**

## 1. PURPOSE AND SCOPE

The water hammer arrester incorporates a steel spring connected to a plastic disc with double O-ring seal, which opposes the fluid force and absorbs much of the excess pressure. As a result, the overpressures are mitigated so that the correct operation. The phenomenon of water hammer occurs when a device (such as a tap or a mixer, etc.) is suddenly closed, creating harmful overpressures inside the system.

## 2. TECHNICAL SPECIFICATIONS

Connecting thread: G1/2"M

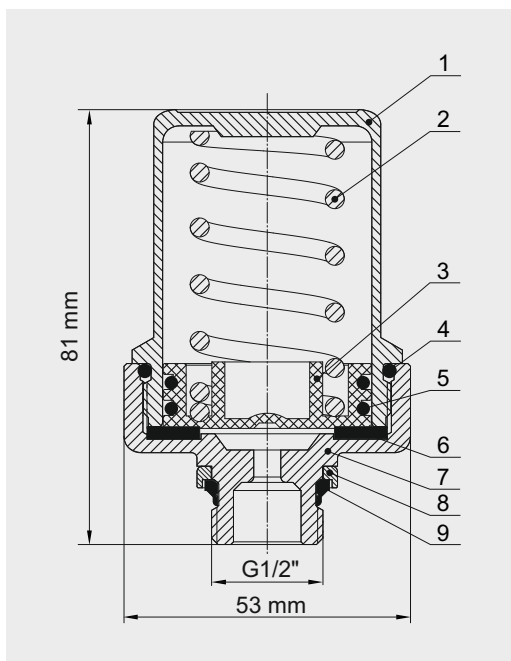
Nominal working pressure PN: 10 bar

Maximum working pressure: 50 bar

Maximum working temperature: 90°C

Sealing: EPDM

## 3. DIMENSIONS



- 1 – Cover
- 2 – Spring
- 3 – Piston
- 4 – O-ring
- 5 – Piston O-ring
- 6 – Damper
- 7 – Body
- 8 – Protective ring
- 9 – Sealing

#### 4. MATERIALS

Cover (1), Body (7) — Brass CW617N (DIN EN 12165) with Nickel-plated surface

Spring (2) — Spring steel 65MN

Piston (3) — POM

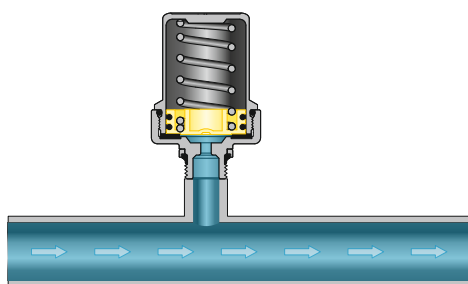
O-ring (4), Piston O-ring (5), Damper (6), Sealing (9) — EPDM

Protective ring — Brass CW614N

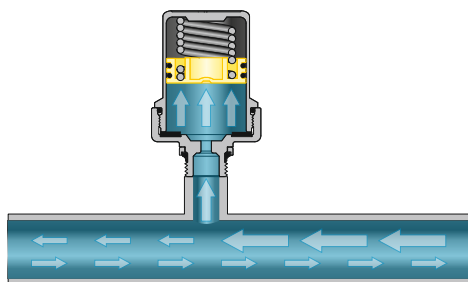
#### 5. DESCRIPTION

The reduction in high pressure occurs due to the compression of the steel spring and the movement of the piston, which has a double seal, due to the increase in volume, the water hammer is absorbed. The greater the water hammer, the more the spring is compressed. Flat EPDM gasket eliminates piston impact on the body.

When the tap is open, the pressure in the pipeline remains constant.



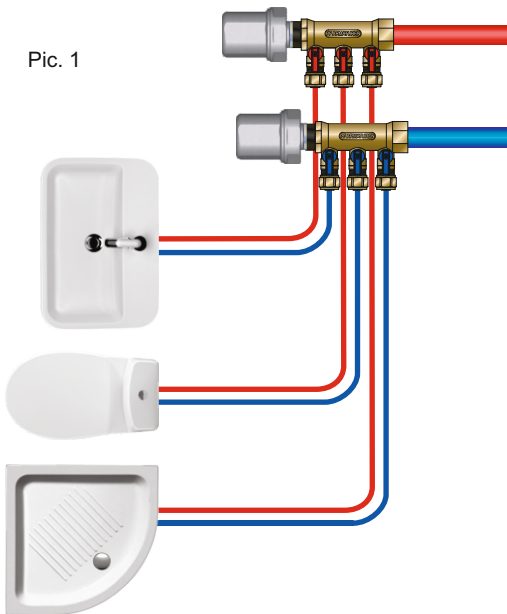
When the tap is closed, the pressure in the pipeline increases, and the water hammer arrester absorbs excess pressure, protecting the entire system and its components.



## 5. INSTALLATION INSTRUCTIONS

It is recommended that the water hammer arrester is installed directly on each circuit (e.g. ball valves, domestic services, electrovalves, etc.), or placed on the distribution manifold.

Pic. 1



Pic. 2



Pic. 3



If the system has a pressure reducing valve, then a water hammer arrester is installed before it.

When installing a water hammer arrester, you must make sure that it is the location does not create areas where stagnation of water can occur, which leads to the proliferation of bacteria. For example, you should avoid installing it at the top of the pipeline.

The water hammer compensator can be installed in any installation position.



When installing the water hammer arrester, it is not allowed to exceed the following torques — 25 Nm

## 6. MAINTENANCE AND OPERATION

The water hammer arrester must be operated without exceeding pressure and temperature, in accordance with the technical specifications in this passport.

## 7. WARRANTY OBLIGATIONS

The warranty period is 12 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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