



**PROFACTOR®**  
DER DEUTSCHE QUALITÄTSSTANDARD

EN

## TECHNICAL DATA SHEET AND USER MANUAL



**PRODUCT  
CODE**

PF MB 810  
PF MB 811  
PF MB 812

**MANIFOLD TEE**

## 1. PURPOSE AND SCOPE

PROFACTOR® PF MB 810 – 812 brass manifold tees are designed for use within distribution manifolds in water heating systems, underfloor heating systems, as well as in cold and hot water supply systems. They are used to connect pipelines in a three-branch configuration and ensure the distribution or collection of heat transfer fluid flows in utility networks. Depending on the model, the tees feature various combinations of internal and external threads, allowing for their use in diverse installation layouts. The products are rated for operation with liquid media non-corrosive to the product materials, including water and aqueous glycol solutions (up to 50%).

## 2. TECHNICAL SPECIFICATIONS

| Product Code                        | PF MB | 810            | 811          | 812              |
|-------------------------------------|-------|----------------|--------------|------------------|
| Nominal Size                        | G     | 3/4"x1/2"x3/8" | 1"x1/2"x1/2" | 1 1/4"x1/2"x1/2" |
| Nominal Pressure, PN                | bar   | 16             |              |                  |
| Maximum Operating Temperature, Tmax | °C    | 120            |              |                  |
| Average Service Life                | years | 30             |              |                  |

## 3. DESIGN

The tees are manufactured using the hot forging method and machining from brass grade CW617N (DIN EN 12165).

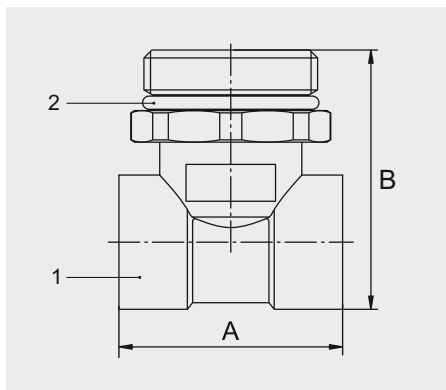
To provide additional corrosion protection and improve appearance, PROFACTOR® tees are produced with nickel-plated surfaces. The nickel coating is applied by galvanic deposition.

All cylindrical pipe threads are in an accordance with DIN EN ISO 228-1.

The sealing rings are in an accordance with DIN ISO 3601. The ring material is synthetic rubber EPDM.



#### 4. NOMENCLATURE AND DIMENSIONS



1 – Body

2 – Sealing Ring (O-ring)

| Product Code | G                   | A, mm | B, mm | Weight, g |
|--------------|---------------------|-------|-------|-----------|
| PF MB 810    | 3/4"Mx1/2"Fx3/8"F   | 42,5  | 49    | 130       |
| PF MB 811    | 1"Mx1/2"Fx1/2"F     | 42,5  | 49    | 130       |
| PF MB 812    | 1 1/4"Mx1/2"Fx1/2"F | 42,5  | 50    | 150       |

#### 5. INSTALLATION INSTRUCTIONS

In locations where a sealing ring or gasket is not provided, to ensure the tightness of threaded connections, it is necessary to use PTFE-tape (polytetrafluoroethylene), polyamide thread with silicone impregnation, flax combined with appropriate sealing pastes, or other sealing materials approved for use in utility systems. The selected sealant must ensure leak-tightness at the design pressure and temperature of the conveyed medium and must comply with the established regulatory requirements.

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

#### 6. 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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