



PROFACTOR®
DER DEUTSCHE QUALITÄTSSTANDARD

EN

TECHNICAL DATA SHEET AND USER MANUAL



PRODUCT CODE

PF YS 220
PF YS 221
PF YS 222
PF YS 223
PF YS 224
PF YS 225

**Y-TYPE STRAINER
(COARSE FILTER)**

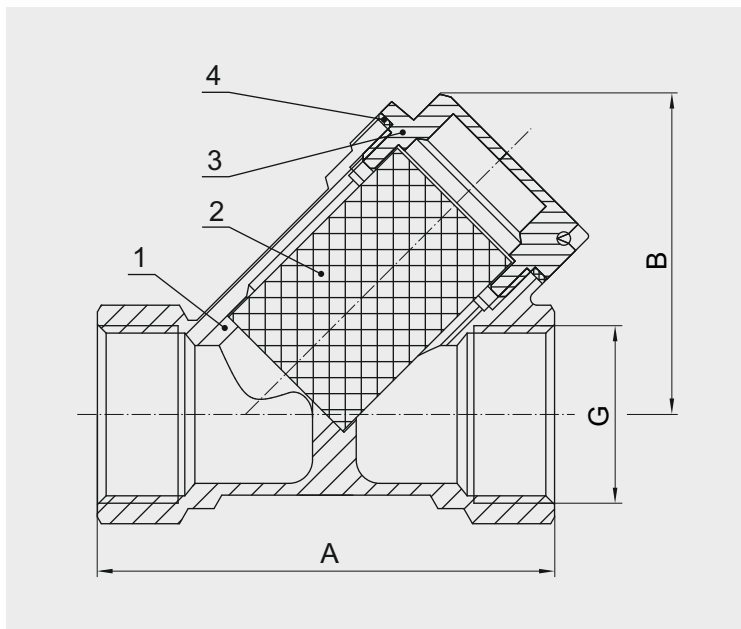
1. PURPOSE AND SCOPE

The coarse Y-type strainer is used to filter mechanical impurities from the flow of the working medium in piping systems for cold and hot water, gases, and liquid hydrocarbons, within the permissible limits of temperature and pressure specified in the technical specifications table.

2. TECHNICAL SPECIFICATIONS

Product Code	PF YS	220	221	222	223	224	225
Nominal size	DN	15	20	25	30	40	50
	G	1/2"	3/4"	1"	1¼"	1½"	2"
Nominal (rated) pressure PN	bar	20					
Mesh size (filtration grade)	micro-meters	400			500		
Operating medium temperature	°C	−20°C to +120°C					
Flow capacity (Kv at a pressure drop of 1 bar)	m³/h	4,0	6,0	8,0	15,0	21,0	32,0
A	mm	55,5	68	71,5	96	104	126
B	mm	39	47,5	54	68	75	90
Weight	g	135	206	310	612	824	1327
Average service life	years	30					

3. DESIGN



1 – Filter body

3 – Inspection plug

2 – Filtering element

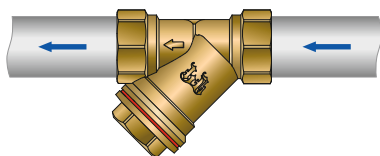
4 – Plug gasket

The filter body (1) and inspection plug (3) are made of brass grade CW617N (according to the European standard EN 12165) using casting, forging, and turning processes. Inside the body is the filtering element (2) — a cylindrical welded mesh made of stainless steel AISI 304. The plug gasket (4) is made of fiber grade 3110, in accordance with DIN 7737. The filter plug has a protrusion with a sealing (tamper-proof) hole.

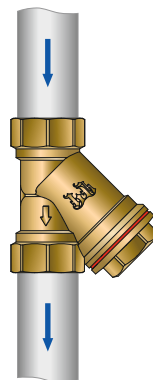
4. INSTALLATION INSTRUCTIONS

The filter can be installed in either a horizontal or vertical position. In both cases, the inspection plug must face downward, and the arrow on the body must correspond to the direction of the filtered medium's flow.

Horizontal installation of the filter



Vertical installation of the filter



If the flow is directed from bottom to top, a horizontal section of the pipeline must be provided for proper installation of the filter.

The filter must not be subjected to any loads from the pipeline, such as bending, compression, tension, torsion, misalignment, vibration, or uneven tightening of fasteners. If necessary, supports or compensators should be installed to reduce the load on the filter from the pipeline).

The misalignment of connected pipelines must not exceed 3 mm per 1 meter of length, plus 1 mm for each additional meter. Threaded connections must be made using sealing materials such as PTFE-tape, polyamide thread, or flax (linen).

5. OPERATION AND MAINTENANCE

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

When the filter is used in pipeline systems with a high content of mechanical impurities, it is recommended to inspect and clean the filter regularly. The need for cleaning may be indicated by a pressure drop across the filter greater than 0.5 bar.

To clean the filter, close the inlet shut-off valve of the system, drain the pipeline section containing the filter, then unscrew the inspection plug and clean the mesh. If the plug gasket is found to be damaged during inspection, it must be replaced.

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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