



## TECHNICAL DATA SHEET OF THE PRODUCT

### "Y" pattern filter with stainless steel filter

#### 1. Purpose and scope of application

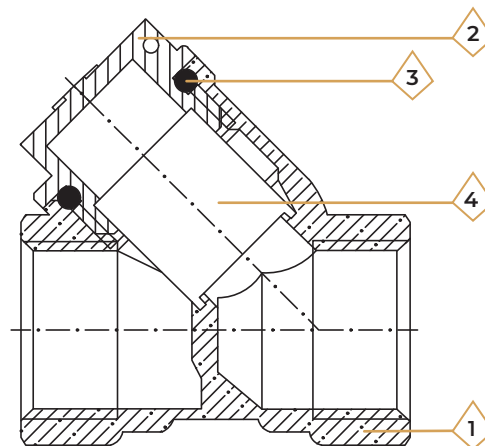
A filter is the first stage of the water purification process, designed to extract visible particles and sediment. It is usually used at the entrance of the water supply system to a residential building (house, apartment) to protect further elements from large particles that can damage their operation. For heating and water supply systems, filters with a brass body and a stainless steel mesh are used.

The filter is made of brass by hot stamping and coated with nickel. The filters use a class "A" cylindrical pipe thread that meets the standards (ISO228/2. ISO 7/2). The filter is applicable to pipelines made of different materials. To seal threaded connections, it is necessary to use - plumbing flax with anaerobic sealant, polyamide thread, fum tape.

#### 2. Technical specifications

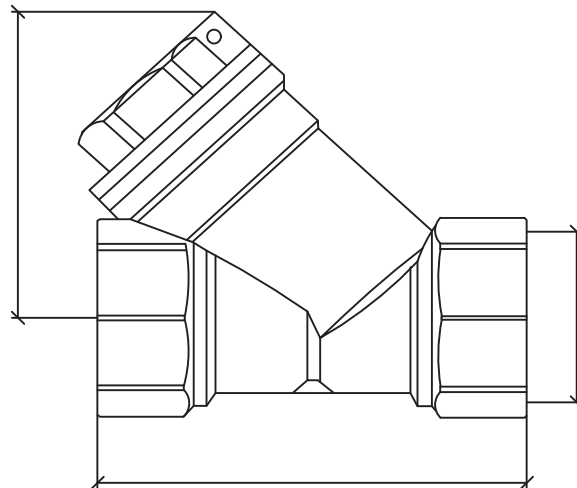
№	Characteristic	Designation					
		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
1	Connecting thread	Pipe inch					
2	Sealing class	«A»					
3	Nominal pressure, PN, Mpa	0,4	0,4	0,4	0,3	0,25	0,25
5	Filter cell size, µm	500	500	500	500	500	500
6	Kv capacity on a clean filter m3/h	3,88	4,82	6,80	13,66	14,63	21,70
7	Working environment temperature, °C	from -25 to 120°C					
8	Ambient temperature, °C	-20÷+60°C					
9	Ambient humidity,%	0÷60%					
10	Average full service life, years	30					

#### 3. Construction and materials



№	Element name	Material	Material grade according to standards
1	Body	Hot pressed brass nickel plated	CW617N
2	Cork	Hot pressed brass nickel plated	CW617N
3	Gasket	Ethylene-propylene-diene monomer	EPDM
4	Filter element	Stainless steel	AISI 316

#### 4. Nomenclature and overall dimensions



<b>"Y" pattern filter with stainless steel filter</b>				
Size	Article	A, mm.	B, mm.	Weight, gr.
1/2"	FKU-01	56,5	42,6	146
3/4"	FKU-02	68	49,1	225
1"	FKU-03	78	57,6	342
1 1/4"	FKU-04	94	65,6	585
1 1/2"	FKU-05	105	75,6	797
2"	FKU-06	125	92,8	1325

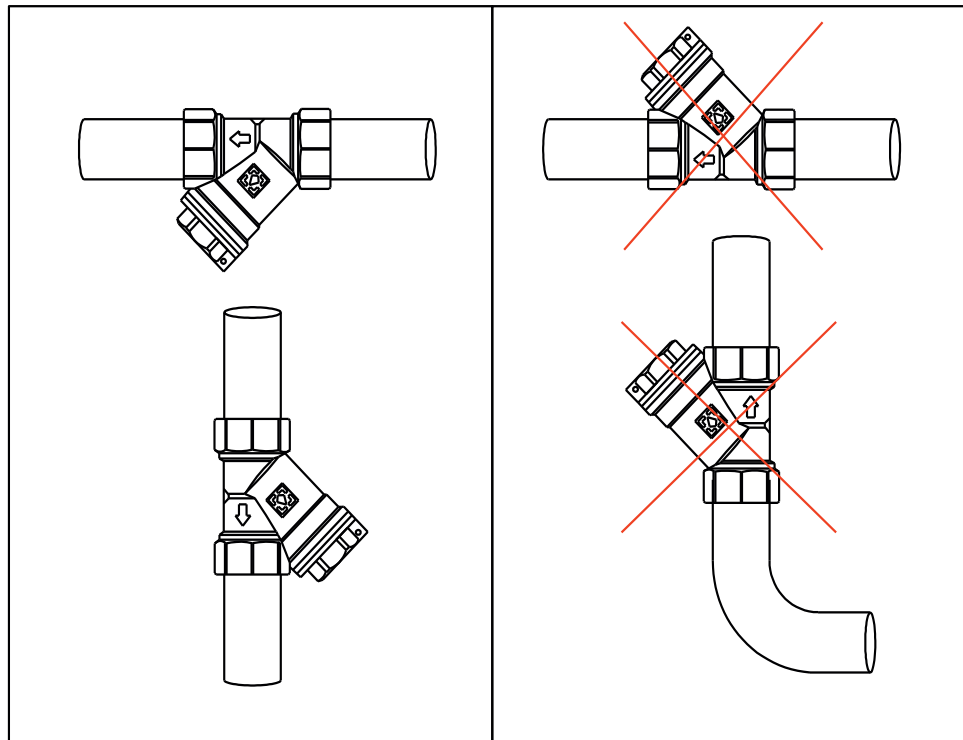
#### 5. Installation instructions

1. The filter can be installed in either a horizontal or vertical position, with the filter plug facing downwards (see figure) and the arrow on the body aligned with the direction of flow of the filtered medium.
2. When the flow is directed from the bottom up, it is necessary to provide a horizontal section for the correct installation of the filter, otherwise the installation of the filter will lead to clogging of the lower branch (elbow or tee) of the pipeline. The filter should not experience loads from the pipeline (bending, compression, stretching, twisting, distortions, vibration, misalignment of the pipes, uneven tightening of the fastener).
3. If necessary, supports or compensators should be provided to reduce the load on the filter from the pipeline.
4. The misalignment of the connected pipelines must not exceed 3 mm for a length of up to 1 m + 1 mm for each subsequent meter.
5. After installation, the system units must be tested for tightness using hydraulic or pneumatic methods.
6. As a sealant for threaded connections, it is necessary to use FUM tape (fluoroplastic sealant), polyamide thread with silicone, flax with special pastes, as well as other sealing materials that ensure the tightness of the connections.
7. When installing filters, do not exceed the torque specified in the table:

Nominal bore in inches	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Torque, Nm	35	45	65	90	130	160

**Correct**

**Incorrect**



**6. Operating and maintenance instructions**

1. The filter must be operated without exceeding the pressure and temperature specified in the technical specifications table.
2. When using a filter in pipeline systems with a high content of mechanical impurities, it is recommended to regularly inspect and clean the filter, the need for which may be indicated by a pressure drop in the filter of more than 0.05 MPa.
3. To clean the filter, you need to close the shut-off valve of the system, empty the section of the pipeline with the filter, then unscrew the inspection plug and clean the mesh. If the plug gasket was damaged during the inspection of the filter, it should be replaced.
4. It is prohibited to allow the working medium to freeze inside the tap. When draining the system in winter, the tap should be left half-open so that the working medium does not remain in the voids around the valve.

**7. Possible malfunctions and ways to eliminate them**

Malfunction	Possible cause	Method of elimination
Flow from under the plug	Incomplete tightening of the plug	tighten the plug
Flow from under the plug	The fluoroplastic ring burst	Replace the fluoroplastic ring
Pressure drop of the transported medium	Clogged filter element	Clean or replace the filter element

## **8. Warranty obligations**

1. The manufacturer guarantees that the products comply with safety requirements, provided that the consumer complies with the rules of use, transportation, storage, installation and operation.
2. The warranty covers all defects caused by the manufacturer's fault.
3. The warranty does not cover defects that occur in the following cases:
  - violation of passport regimes for transportation, storage, installation, operation and maintenance of the product;
  - improper transportation and loading and unloading operations;
  - the presence of traces of exposure to substances that are aggressive to the product materials;
  - the presence of damage caused by fire, natural disasters, force majeure circumstances;
  - the presence of damage caused by incorrect actions of the consumer;
  - the presence of traces of third-party interference in the design of the product.
4. The manufacturer reserves the right to make changes to the product design that do not affect the declared technical characteristics.

## **9. Warranty terms and conditions**

1. Claims for the quality of the goods may be made during the warranty period.
  2. Defective products during the warranty period are repaired or exchanged for new ones free of charge. The decision to replace or repair the product is made by the service center. The replaced product or its part obtained as a result of the repair becomes the property of the service center.
  3. The costs associated with dismantling, installation and transportation of the defective product during the warranty period are not reimbursed to the Buyer.
  4. In cases where the claim is unfounded, the costs of diagnostics and examination are paid by the Buyer.
  5. Products are accepted for warranty repair (as well as when returned) fully equipped.
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**WARRANTY CARD № \_\_\_\_\_**

Product name \_\_\_\_\_

Brand, article, size \_\_\_\_\_

Quantity \_\_\_\_\_

Name and address of the trading organization \_\_\_\_\_

Date of sale \_\_\_\_\_ Seller's signature \_\_\_\_\_

Stamp or seal  
of the trading organizationI AGREE with the conditions:  
BUYER \_\_\_\_\_  
(signature)

The warranty period is seven years (eighty-four months) from the date of sale to the end consumer.

When making claims regarding the quality of the goods, the buyer shall provide the following documents:

1. A statement in any form, indicating:
  - name of the organization, full name of the buyer, actual address and contact phone number;
  - name and address of the organization that performed the installation;
  - main system parameters;
  - short description of the defect;
2. Document proving the purchase of the product;
3. Hydraulic test certificate of the system in which the product was installed;
4. A completed warranty card issued on the manufacturer's website «[raftec.eu](http://raftec.eu)».

Return or exchange mark: \_\_\_\_\_

Date \_\_\_\_\_ y. Signature: \_\_\_\_\_

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