



Manufacturer of shut-off and control valves

TECHNICAL DATA SHEET

Strainer ELEPHANT FMY2131-F DN15-400 40 bar
Y-shaped, steel, flanged



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1. GENERAL PRODUCT INFORMATION

1.1. Product name: Filter mesh ELEPHANT FMY2131-F DN15-400 40 bar Y-shaped, steel, flanged.

1.2. Purpose: The strainers are designed for installation before control valves, flow meters and other devices with high requirements to the purity of water passing through them in heating, heat supply, technical hot and cold water supply systems, for mechanical cleaning of the working medium from dirt, rust, chips, etc.

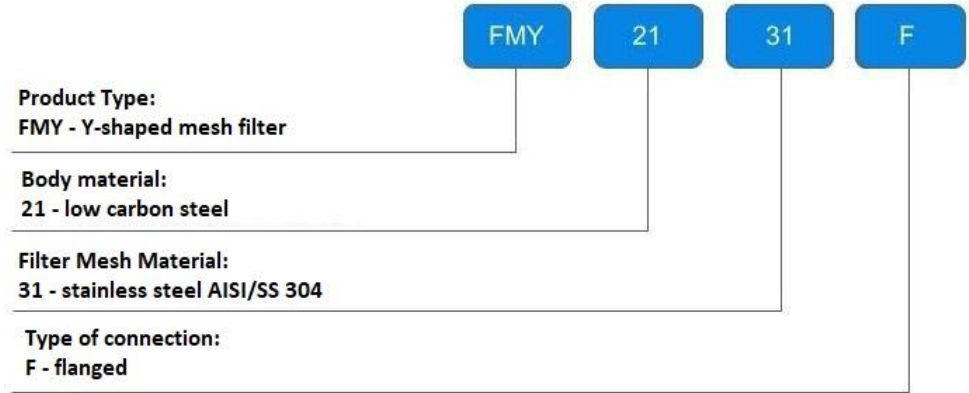
1.3. Principle of operation: The mesh filter detains solid particles in the working medium, the size of which exceeds the mesh size of the filtering grid.



** image is for general design purposes and may differ from the original*



1.4. Deciphering of the designation:



2. BASIC TECHNICAL DATA AND CHARACTERISTICS

Table 1. Main parameters

Nominal diameter DN, mm	15÷400
Nominal pressure PN, bar	40
Working medium temperature t, °C	-20 to +425
Working medium	water, steam, air and other gases and liquids compatible with the materials of the filter parts
Working medium Pipeline connection	flanged
Housing material	steel GS-C25
Filter screen material	stainless steel AISI 304
Working medium flow direction	arrow on filter housing
Average service life, years	10



3. BASIC MATERIALS

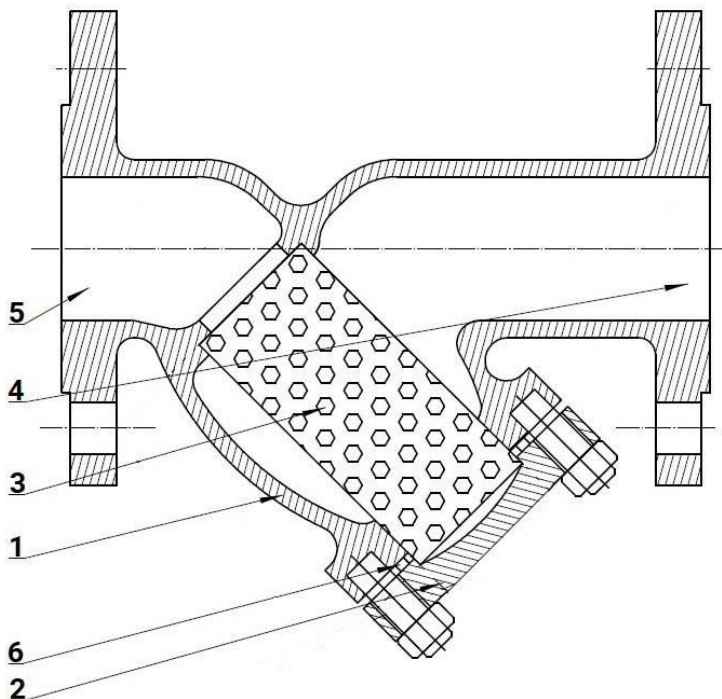


Figure 1. Main parts of the filter FMY2131-F

Table 2. Material specification.

Nº	Part Name	Material
1	Housing	steel GS-C25
2	Cover	steel GS-C25
3	Grid	stainless steel AISI 304
4	Outlet	steel GS-C25
5	Inlet	steel GS-C25
6	Filter Cover Gasket	PTFE



4. WEIGHT AND SIZE PARAMETERS AND DIMENSIONAL CHARACTERISTICS

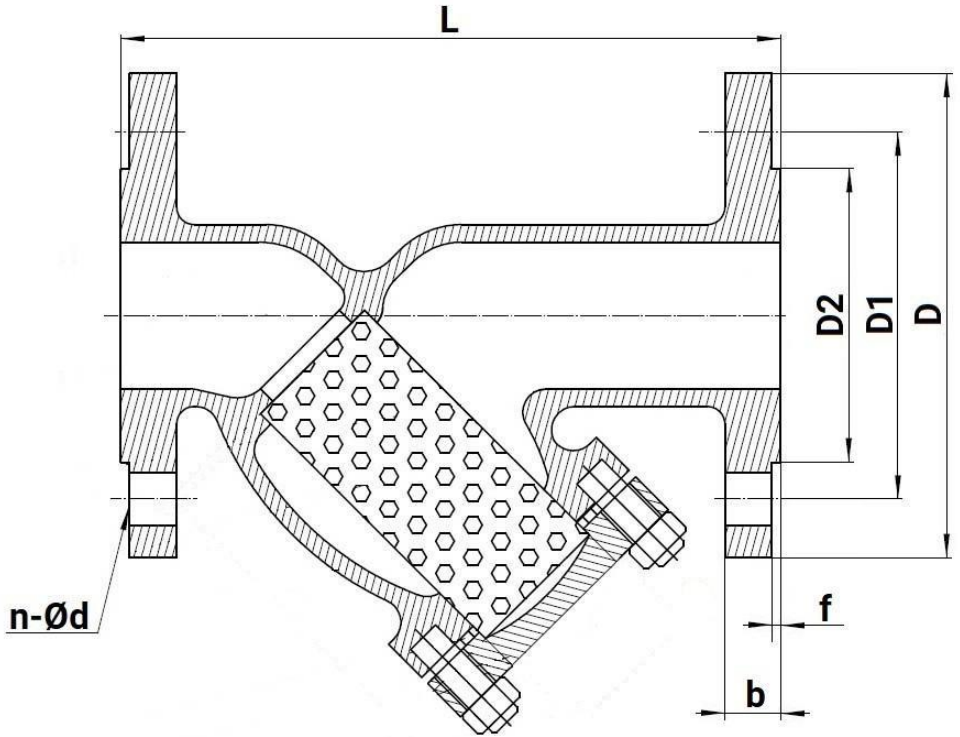


Figure 2. Filter dimensions FMY2131-F



Table 3. Dimension and weight values

	L	D	D1	D2	b	f	n-Ød	Weight
	mm							kg
DN15	130	95	65	45	16	2	4-Ø14	3,5
DN20	150	105	75	58	18	2	4-Ø14	4
DN25	160	115	85	68	18	2	4-Ø14	4,5
DN32	180	140	100	78	18	2	4-Ø18	6
DN40	200	150	110	88	18	3	4-Ø18	8
DN50	230	165	125	102	20	3	4-Ø18	11,5
DN65	290	185	145	122	22	3	8-Ø18	15
DN80	310	200	160	138	24	3	8-Ø18	20
DN100	350	235	190	162	24	3	8-Ø22	24
DN125	400	270	220	188	26	3	8-Ø26	34
DN150	480	300	250	218	28	3	8-Ø26	50
DN200	600	375	320	285	34	3	12-Ø30	80
DN250	730	450	385	345	38	3	12-Ø33	120
DN300	850	515	450	410	42	4	16-Ø33	140
DN350	980	580	510	465	48	4	16-Ø36	180
DN400	1100	660	585	535	52	4	16-Ø39	215

Table 4. Grid mesh size and nominal throughput capacity

DN	Filter mesh size, mm	Conditional flow capacity KV
15	0,180	5,95
20	0,180	9,35
25	0,180	15,3
32	0,180	22,10
40	0,180	31,45
50	0,180	51,00
65	0,180	85,00
80	0,180	127,50
100	0,180	195,50
125	0,180	280,50
150	0,180	340,00
200	0,180	552,50
250	0,180	1020,00
300	0,180	1615,00
350	0,180	2193,00
400	0,180	2843,25



Table 5. Filter mesh dimensions

	Grid diameter, mm	Grid length, mm
DN15	25	62
DN20	25	62
DN25	30	78
DN32	40	90
DN40	48	94
DN50	55	108
DN65	70	125
DN80	90	136
DN100	100	182
DN125	136	198
DN150	140	268

5. OPERATING INSTRUCTIONS

5.1. It is forbidden to operate the filter:

- remove the filter and perform any work in the presence of working medium and pressure in the pipeline;
- use the filter at parameters exceeding those specified in this data sheet;
- use the filter as a support for the pipeline.

5.2. During operation it is necessary to wash the filter mesh, which ensures cleaning of the working medium from mechanical impurities. For this purpose it is necessary to unscrew the bolts fixing the cover to the filter housing, remove the mesh with settled impurities, wash the mesh in water and, if necessary, clean it mechanically.

5.3. Frequency of suspended solids drainage and cleaning of the filter element (mesh) is determined from the filter operation conditions. The filter should be cleaned if the pressure loss at the valve is noticeably higher than the design pressure, but at least once a month.



6. INSTALLATION INSTRUCTION

6.1. Before installing the filter it is necessary to make sure that there is no damage to the product during transportation and storage, as well as to check the compliance of the used filters with the technical parameters of the system.

6.2. Install the filter in such a way that the direction of the arrow on the housing coincides with the direction of medium flow.

6.3. The filter shall be installed on the pipeline in places accessible for inspection and maintenance. Before installation of the filter the pipeline should be cleaned from dirt, sand, scale and other foreign matter.

6.4. During installation the following spatial positions should be observed:

- In vertical pipelines, the filter is installed with the flow from top to bottom;
- In horizontal pipelines, the filter is installed with the cover facing downwards.

ATTENTION! On a horizontal steam line, the filter is installed with the lid sideways.

6.5. Before starting up, the system should be flushed with water to remove any elements that could damage the mesh or filter.

7. TRANSPORTATION AND STORAGE CONDITIONS

7.1. Transportation and storage of strainers is carried out in accordance with the procedure established at the enterprise.

7.2. Filters should be stored in an uncontaminated room and protected from atmospheric precipitation. In rooms with humidity, dehumidifying agents should be used to prevent condensation.

8. UTILIZATION

8.1. The product is disposed of in accordance with the procedure established at the enterprise (remelting, burial, resale).



9. WARRANTY OBLIGATIONS

9.1. Warranty period - 12 months from the date of commissioning, but not more than 18 months from the date of sale.

9.2. The warranty applies to equipment installed and used in accordance with the installation instructions and product specifications described in this data sheet.

9.3. The manufacturer guarantees compliance of the product with safety requirements, provided that the consumer complies with the rules of transport, storage, installation and operation.

9.4. The warranty covers all defects caused by the fault of the manufacturer.

9.5. The warranty does not apply:

- parts and materials of the product subject to wear and tear;
- for cases of damage caused by:
 - modifications to the original design of the product;
 - violation of general installation recommendations;
 - faults caused by improper maintenance and storage; improper operation and use of the equipment.

10. WARRANTY TERMS

10.1. Claims to the quality of the goods may be made during the warranty period.

10.2. Defective products are repaired or exchanged for new ones free of charge during the warranty period. ELEPHANT decides whether to replace or repair the product. The replaced product or its parts resulting from the repair shall become the property of 'ELEPHANT'.

10.3. Costs related to dismantling, installation and transport of the defective product during the warranty period shall not be reimbursed to the Buyer.

10.4. If the claim is unfounded, the Buyer shall pay the costs of diagnostics and expertise of the product.

10.5. Products are accepted for warranty repair (as well as for return) fully assembled.



WARRANTY CARD № _____

№	Product Name	Packs

Name and address of the trading organisation _____

Date of sale _____ Seller's signature _____

Stamp or seal of the trading organisation _____ Acceptance stamp _____

I agree with the terms and conditions of the warranty:

Buyer _____ (signature)

Warranty period - 12 months from the date of commissioning, but not more than 18 months from the date of sale.

For warranty repairs, complaints and product quality claims, please contact ELEPHANT at: Carrer d'Aragó,264,3-1,08007 Barcelona, Spain_E-mail address: sales@valveelephant.com.

When making a complaint about the quality of goods, the buyer shall present the following documents:

1. A free-form application, which shall specify:
 - name of the organisation or full name of the buyer, actual address, contact telephone numbers;
 - name and address of the organisation that carried out the installation;
 - basic parameters of the system in which the product was used;
 - a brief description of the defect.
2. Document confirming the purchase of the product (delivery note, receipt)..
3. Act of hydraulic test of the system in which the product was installed.
4. This completed warranty card.

A note on the return or exchange of goods _____

Date: « ___ » _____ 202__ r. Caption _____

