

Series **SUE**

Suction filters FAI FILTRI

DESCRIPTION

The "SUE" type filters series is particularly suitable for submersed assembly into tanks or on intake lines for volumetric pumps protection from gross particles contamination. There are several sizes available with nominal flow rates up to 900 l/min.

Filters can also be equipped with by-pass valves.

TECHNICAL DATA

MATERIALS

- ❑ Couplings in nylon with glass fibers
- ❑ By-pass valves in nylon with glass fibers
- ❑ Perforated/drilled supporting pipes and galvanized steel end caps

CARTRIDGE COLLAPSING PRESSURE

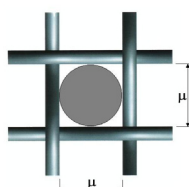
Collapsing pressure: **1 bar**

FILTER ELEMENTS

- M60** Squared mesh stainless steel wire net
M90 Galvanized steel net
M125 Galvanized steel net
M250 Squared mesh stainless steel wire net

RETENTION EFFICIENCY

For squared mesh wire nets the filtration efficiency is measured in micron starting from the max. diameter of the sphere inscribed into the mesh.



BY-PASS VALVES

SUE filters can be equipped with a by-pass valve with start opening at a differential pressure value of 0,3 bar

COUPLINGS

For different couplings types available see the dimensional table.

OPERATING TEMPERATURE

From -20°C up to +100°C

FLOW RATE

Oil flow rate up to 900 l/min
 Refer to the dimensional table for each model details.

PRESSURE DROP

Curves are applicable to mineral oil with a kinematic viscosity of 30 mm²/sec. (cSt). ΔP changes along with the values of kinematic viscosity according to the following formulas:

Kinematic viscosity variations ≤ 5

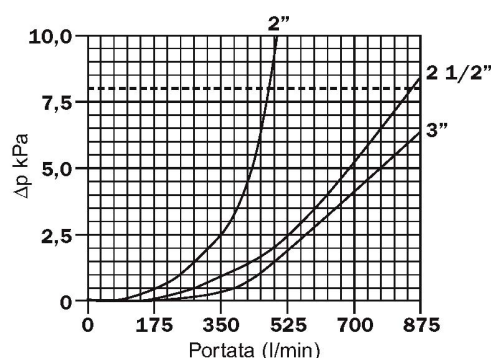
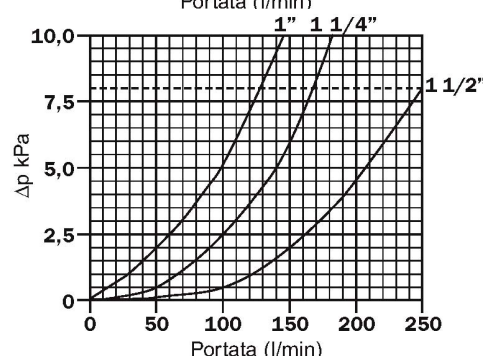
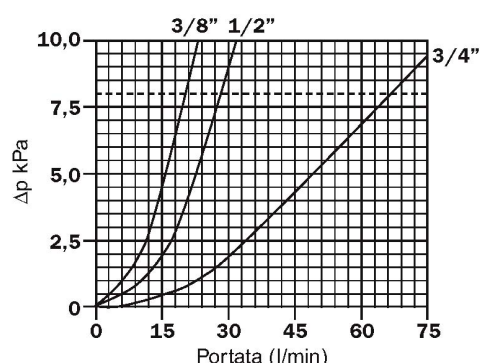
$$\Delta P = \frac{v_1}{v} \Delta P$$

Kinematic viscosity variations > 5

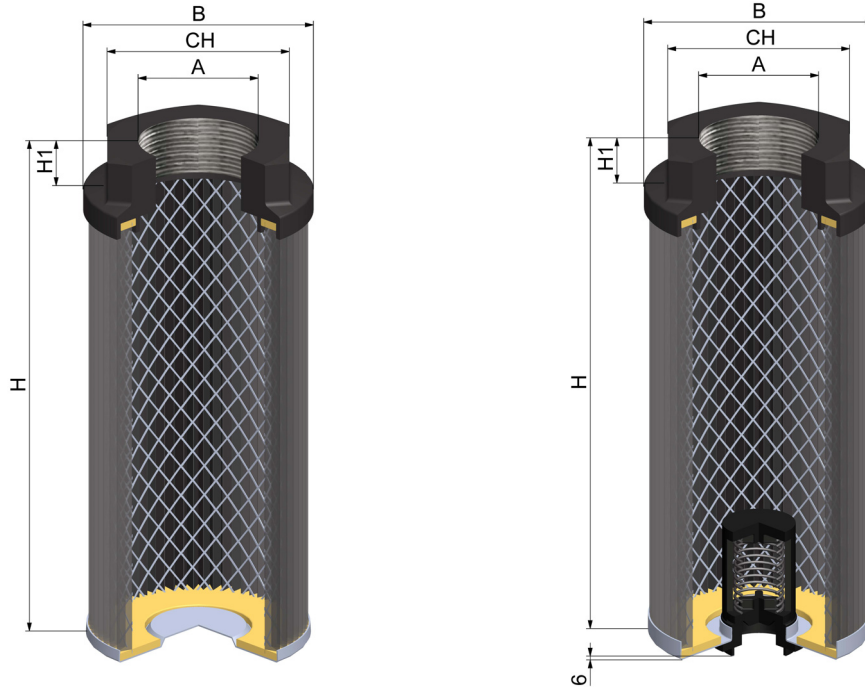
$$\Delta P_1 = \frac{\frac{v_1}{v} + \sqrt{\frac{v_1}{v}}}{2} \Delta P$$

In both formulas ΔP stands for the pressure drop calculated on the curves, v stands for the reference kinematic viscosity (30 mm²/sec); ΔP_1 is the pressure drop to be calculated and v_1 stands for the actual kinematic viscosity of the tested fluid.

For the best choice of the filter during the intake phase it is advisable not to exceed the recommended flow speed of 1 m/s. These filters have been technically engineered to support pressure losses up to 8 kPa.



DIMENSIONAL INFORMATION



Type	A	B mm	H mm	H1 mm	CH	Filtering surface cm ²
SUE 003	1/4" GAS	44	60	8	27	140
SUE 005	3/8" GAS	44	60	8	27	140
SUE 007	3/8" GAS	44	89	8	27	230
SUE 010	3/8" GAS	44	105	8	27	270
SUE 015	1/2" GAS	44	105	8	27	270
SUE 018	3/4" GAS	65	87	15	41	260
SUE 019	1/2" GAS	65	78	15	41	220
SUE 023	3/4" GAS	65	89	15	41	270
SUE 024	1/2" GAS	65	53	15	41	125
SUE 025	3/4" GAS	65	110	15	41	315
SUE 028	3/4" GAS	65	140	15	41	470
SUE 043	1" GAS	65	140	15	41	470
SUE 045	1" GAS	86	87	15	41	470
SUE 047	1" GAS	86	110	15	41	670
SUE 049	1" GAS	86	152	15	41	970
SUE 075	1 1/2" GAS	86	140	18	68	870
SUE 088	1 1/4" GAS	86	180	18	68	1.150
SUE 090	1 1/2" GAS	86	180	18	68	1.150
SUE 115	1 1/2" GAS	86	200	18	68	1.320
SUE 135	2" GAS	86	260	18	68	1.880
SUE 180	2" GAS	86	309	18	68	2.200
SUE 223	2" GAS	86	330	18	68	2.400
SUE 226	2" GAS	150	104	18	104	1.600
SUE 227	2" GAS	150	150	18	104	2.670
SUE 340	2 1/2" GAS	150	215	18	104	4.160
SUE 455	3" GAS	150	270	18	104	5.400

ORDER CODE

SUE

Coupling dimension

3	1/4"
5	
7	3/8"
10	
15	1/2"
18	3/4"
19	1/2"
23	3/4"
24	1/2"
25	
28	3/4"
43	
45	1"
47	
49	
75	1 1/2"
88	1 1/4"
90	
115	1 1/2"
135	
180	
223	2"
226	
227	
340	2 1/2"
455	3"

Coupling types

G GAS thread
Customs on demand

By-pass valves

B with by-pass
S without by-pass

Filter elements

M60 Squared mesh net
M90 Galvanized steel net
M125 Galvanized steel net
M250 Squared mesh net



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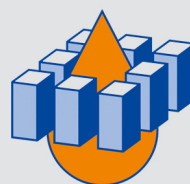
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