

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 13 sizes available with nominal flow rates up to 500 l/min. Filters can also be equipped with by-pass valves.

TECHNICAL DATA

MATERIALS

- Couplings: glass fiber charged nylon
- By-pass valves made of glass-fiber charged nylon
- Perforated/drilled supporting pipes and galvanized steel end caps

CARTRIDGE COLLAPSING PRESSURE

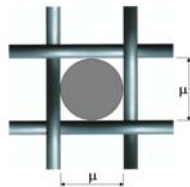
Collapsing pressure: **1 bar**

FILTER ELEMENT

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

RETENTION POWER

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



BY-PASS VALVE

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

COUPLINGS

For different couplings types see dimensional table

OPERATING TEMPERATURE

From -20°C up to +100°C

FILTERING SURFACE

Type	M60÷M250	Type	M60÷M250
SUE 5	140 cm ²	SUE 90	1155 cm ²
SUE 10	270 cm ²	SUE 115	1320 cm ²
SUE 15	270 cm ²	SUE 135	1880 cm ²
SUE 25	315 cm ²	SUE 227	2670 cm ²
SUE 43	470 cm ²	SUE 340	4160 cm ²
SUE 47	670 cm ²	SUE 455	5400 cm ²
SUE 75	870 cm ²		

FLOW RATE

See dimensional table

PRESSURE DROP

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

Dynamic viscosity variations ≤5

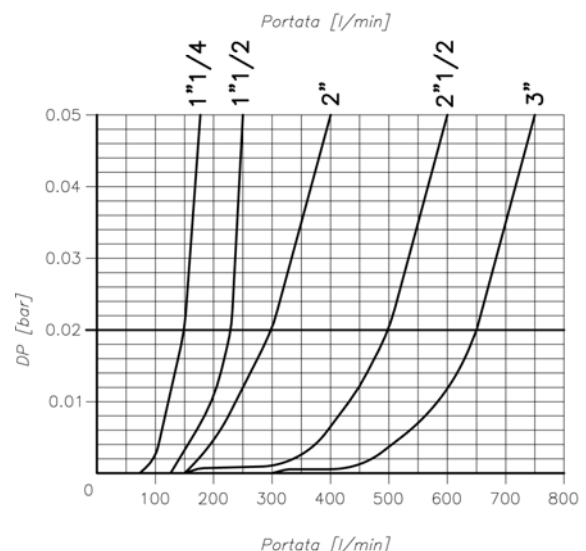
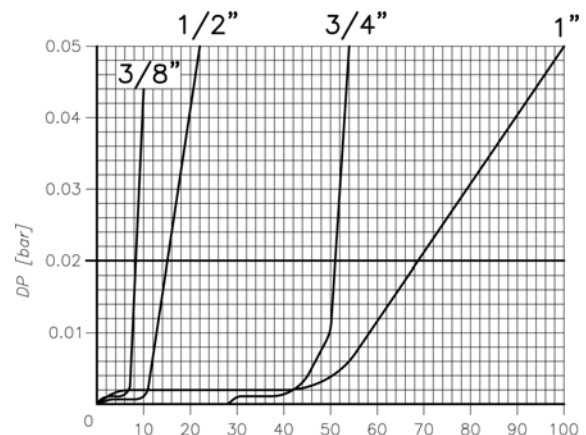
$$\Delta P = \frac{v1}{v} \Delta P$$

Dynamic viscosity variations >5

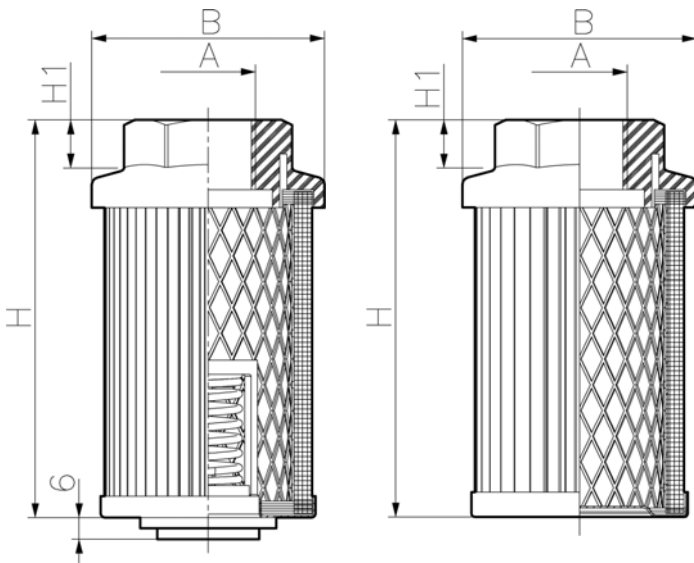
$$\Delta P1 = \frac{\frac{v1}{v} + \sqrt{\frac{v1}{v}}}{2} \Delta P$$

In both formulas ΔP stands for the pressure drop calculated on the curves, v stands for the reference dynamic viscosity (30 mm²/sec); ΔP1 is the pressure drop to be calculated and v1 stands for the actual dynamic viscosity of the tested fluid.

For the best setting of the filter during the intake phase it is advisable not to exceed the flux recommended speed 1m/sec. These filters have been technically engineered to support pressure losses up to 0,02 bar.



DIMENSIONAL INFORMATION



Type	A	B	H	H1	CH	Flow rate [l/min]
SUE 5	3/8"	44	60	8	27	6
SUE 10	3/8"	44	105	8	27	10
SUE 15	1/2"	44	105	8	27	15
SUE 25	3/4"	65	110	15	42	25
SUE 43	1"	65	140	15	42	50
SUE 47	1"	86	110	15	42	70
SUE 75	1 1/2"	86	140	18	68	95
SUE 90	1 1/2"	86	180	18	68	125
SUE 115	1 1/2"	86	200	18	68	130
SUE 135	2"	86	260	18	68	180
SUE 227	2"	150	150	18	104	225
SUE 340	2 1/2"	150	215	18	104	350
SUE 455	3"	150	270	18	104	500

ORDER CODE

