ESPOR GA
PP Filter Cartridges

- Liquid Filters
- Polyethersulfone Membrane

ESFLO GA liquid filter cartridges are designed for the clarification and prefiltration of a wide range products in the food, beverage, bio and pharmaceutical industries

ESFLO GA is made up of double layered polypropylene filter media that have a graded density, fine fibers and fixed pore structure that is bonded thermally, resulting in progressively finer retention, lower pressure drop and longer filter life.

ESFLO GA all-polypropylene construction provides very low level of extractable and maximized chemical resistance to acids, bases and most organic solvents.

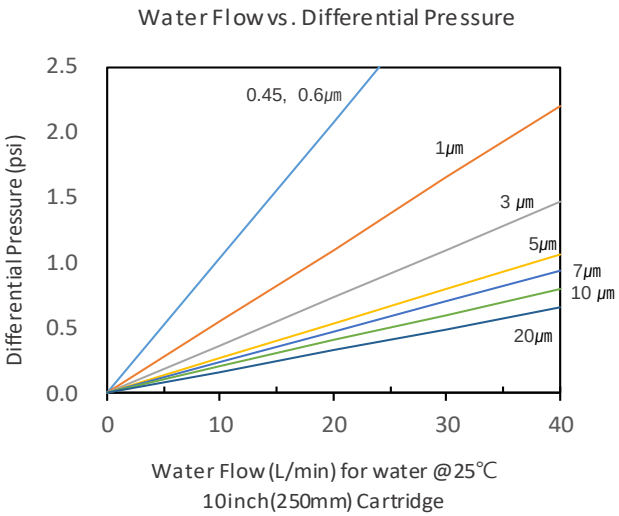
Features and Benefits

- Absolute micron rating range from 0.45 to 20㎛ for wide range of applications.
- All polypropylene construction provides excellent chemical compatibility and very low level of extractable.
- Fine fiber technology provides absolute micron raing and reliable removal efficiency.
- Graded density media and double layered construction allows longer operating life and lower operating cost.
- Thermally bonded pore structure protects fiber releasing and unloading.
- Broad chemical compatibility allows in most applications.
- No surfactants or adhesives are present to interrupt product quality.

Applications

- DI Water
- Process Water
- Membrane Pre-filteration.
- Chemicals
- Solvents
- Acids & Bases

Performance Characteristics



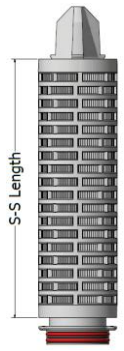
Specifications

Materials of Construction

Main Media :	Polypropylene
Prefilter Media :	Polypropylene
Upstream Support:	Polypropylene
Downstream Support:	Polypropylene
Inner Core:	Polypropylene
Outer Cage:	Polypropylene
End Caps:	Polypropylene

Nominal Dimensions

Outside Diameter : 71.5mm
Inside Diameter of DOE : 27.0mm
Inside Diameter of SOE : 31.0mm
S-S Length of 10" Cartridge : 237.5mm
S-S Length of 20" Cartridge : 485.0mm
S-S Length of 30" Cartridge : 732.5mm
S-S Length of 40" Cartridge : 980.0mm



Maximum Recommended Operating Temperature

70°C

Maximum Recommended Operating Differential Pressure

5.0 bard (72.5psid) @ 20℃
4.0 bard (58.0psid) @ 40℃
3.0 bard (43.5psid) @ 60℃

Recommended Change Out Differential Pressure

2.4 bard (35psid)

Effective Filtration Area

0.6sqm / 10" cartridge

Particle Removal Efficiency

>99.9% efficiency at 0.45, 0.6, 1, 3, 5, 7, 10 and 20㎛.

* Performance determined by ASTM F-795-88, single-pass test using ISO standard dust in water at a flow rate of 10Liter/min per 10inch cartridge.

Flow factors

Per 10inch cartridge, at 1cP.

Rating (㎛)	Flow factor (psid/gpm)
0.45	0.440
0.6	0.435
1	0.233
3	0.155
5	0.113
7	0.099
10	0.085
20	0.069

Ordering Information

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Nominal Length

1 : 10" (250mm)
2 : 20" (500mm)
3 : 30" (750mm)
4 : 40" (1000mm)

Micron Rating

P4 : 0.45㎛
P6 : 0.6㎛
01 : 1㎛
03 : 3㎛
05 : 5㎛
07 : 7㎛
10 : 10㎛
20 : 20㎛

Endcaps

B : DOE
C : 226/FIN
D : 222/FIN
E : 222/FLAT
F : 226/FLAT

Seals

S : Silicone
E : EPDM
V : Viton
P : PTFE
Encapsulated Silicone

Special Options

F : Flushed with DIW & Silicone free
G : Flushed with DIW
Blank : No options

*DIW : DI water

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