

# Hall Pyke



**Membrane Filtration**

# **Fluorofil™ Junior**

**The SMART choice for filtration**

## Fluorofil™ Junior

### ePTFE Membrane Cartridge Filters for Small-Scale Applications

Fluorofil™ Junior cartridges are manufactured using a highly hydrophobic ePTFE membrane and are designed for retrofitting into existing Junior-style housings. The enhanced ePTFE membrane offers exceptionally high gas flow rates at low pressure differentials (see graph).

### Features and Benefits

- **Guaranteed microbial ratings in a liquid challenge**  
Fluorofil™ cartridges are validated for bacterial removal in liquids in accordance with PDA, HIMA guidelines and ASTM F838-05, with a log reduction value >7. This test is stringent in comparison to an airborne particulate challenge test.

### Materials of Manufacture

Filter membrane:	ePTFE	Inner core:	Polypropylene
Membrane support:	Polypropylene	Outer support:	Polypropylene
Irrigation mesh (support):	Polypropylene	End fittings:	Polypropylene
Drainage layer:	Polypropylene	Sealing:	Fusion bonding
Internal adaptor support ring:	Stainless Steel		

### Gaskets and O-Rings

J-style: Silicone (other materials are available on request).  
S-style: Not supplied.

### Maximum Differential Pressure (in water)

Normal flow direction at:  
20°C (68°F): 6.0bar (87lb/in2)  
80°C (176°F): 4.0bar (58lb/in2)  
100°C (212°F): 3.0bar (43lb/in2)  
120°C (248°F): 2.0bar (29lb/in2)  
125°C (257°F): 1.5bar (22lb/in2)

### Operating Temperature

Maximum continuous: 80°C (176°F)

### Sterilisation

Autoclave 70 x 25 minute cycles at 135°C (275°F).

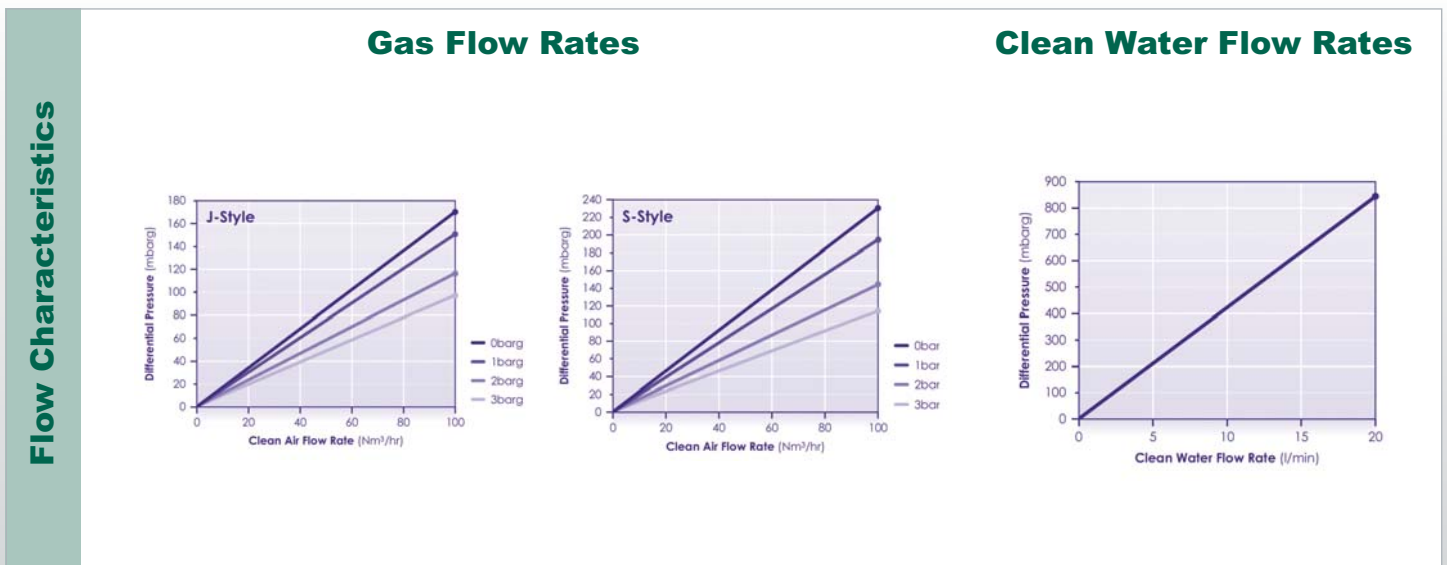
### Effective Filtration Area

Absolute Microbial Rating (in liquids)	Effective Filtration Area (for 5" cartridge)
0.2µm	0.19m <sup>2</sup> (2.05ft <sup>2</sup> )

### Applications

Fluorofil™ Junior ePTFE membrane cartridges meet the demanding filtration requirements of pharmaceutical, semiconductor and fine chemical manufacturers. They are suitable for a wide range of small-scale sterile venting and gas filtration applications, including the filtration of wet gases. They can also be used for the small-scale fine filtration of aggressive chemical solutions including acids, alkalis, solvents and etchants.

- **Sterile vents**  
The safe sterile venting of processing vessels in pharmaceutical, fermentation, and food and beverage processes.
- **Small-scale sterile process gases**  
The supply of sterile gas for critical applications in the pharmaceutical, biotechnology, food and beverage markets.
- **Small-scale fine chemicals and solvents**  
The removal of submicronic particles from processing chemicals and solvents.
- **Small-scale photoresists and developers**  
The microfiltration of photoresists and developer solvents, susceptible to contamination and precipitation during manufacture, storage and processing.





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