Hall Pyke

Surface Pre Filtration

Polyfil™ Junior

The SMART choice for filtration

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Polyfil™ Junior

Absolute Rated Pleated Polypropylene Cartridge Filters Small-Scale Applications

A range of absolute rated cartridge filters from Porvair Filtration Group, designed for retrofitting into existing Junior-style housings. Featuring the latest developments in meltblown polypropylene filter media technology, Polyfil™ Junior cartridges are based on a robust all polypropylene construction, offering removal ratings from 0.5 to 105 micron absolute.

Features and Benefits

- Guaranteed removal ratings

  Polyfil™ Junior cartridges are validated using the recognised industry standard modified OSU-F2 single pass test to Beta 5000 (99.98% efficiency).

Materials of Manufacture

Filter media:	Polypropylene	Outer support:	Polypropylene
Support layers:	Polypropylene	End fittings:	Polypropylene
Inner core:	Polypropylene	Support ring:	Stainless steel

Gaskets and O-Rings

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

Maximum Differential Pressure

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

Integrity Testing

Polyfil™ Junior filter cartridges are batch tested for integrity using the Bubble Point Test. Procedural details are available from Porvair.

Effective Filtration Area

Up to 0.15m2 (1.6ft2) per 136mm module (depending on pore rating).

Applications

Polyfil™ Junior cartridges provide absolute filtration where reproducibility and consistency of performance are critical. Suitable for the filtration of aqueous and organic liquids, Polyfil™ Junior cartridges can be used as prefilters or final filters in the following applications:

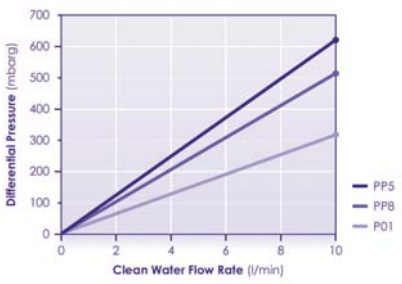
- Small-scale biopharmaceuticals
- Opthalmic solutions
- Electronics and semiconductors
- Small-scale fine chemicals
- Pilot-scale studies
- Inks and coatings

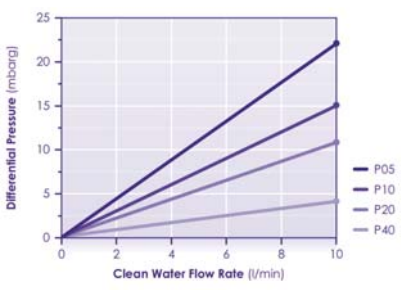
Flow Characteristics

Clean Water Flow Rates

- Typical clean water flow rate:

  A 136mm (5”) Polyfil™ Junior cartridge exhibits the flow-ΔP characteristics indicated below, for solutions with a viscosity of 1 centipoise.





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