

Hall Pyke



Surface Pre Filtration

Polyfil™ II

The SMART choice for filtration

Polyfil™ II

Absolute Rated Pleated Polypropylene Cartridge Filters

A range of absolute rated cartridge filters from Porvair Filtration Group, featuring the latest developments in meltblown polypropylene filter media technology, Polyfil™ II 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™ II 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

Integrity Testing

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

Effective Filtration Area

Up to 0.6m² per 250mm module (depending on pore rating).

Gaskets and O-Rings

Ethylene Propylene, PTFE encapsulated, Silicone, Nitrile or Polypropylene felt.

Maximum Differential Pressure

Normal flow direction at:	Reverse flow direction at:
20°C (68°F): 6.0 bar (87lb/in ²)	20°C (68°F): 2.1 bar (30lb/in ²)
80°C (176°F): 4.0 bar (58lb/in ²)	80°C (176°F): 1.0 bar (15lb/in ²)
100°C (212°F): 3.0 bar (43lb/in ²)	100°C (212°F): 0.5 bar (7lb/in ²)
120°C (248°F): 2.0 bar (29lb/in ²)	
125°C (248°F): 1.5 bar (29lb/in ²)	

Applications

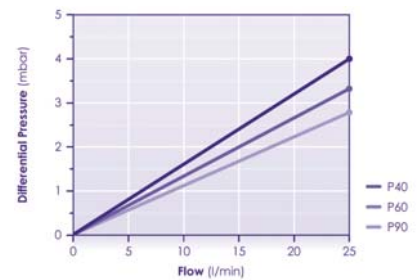
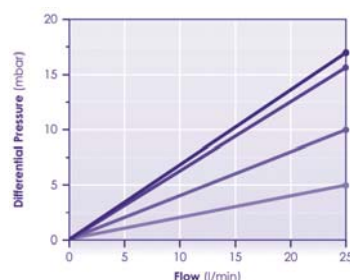
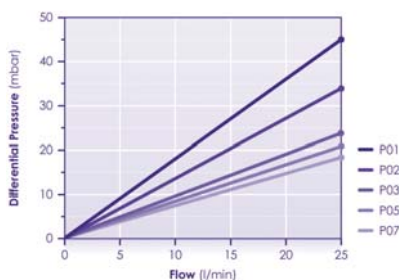
- **Pharmaceuticals and Bioprocessing**
The batch preparation of intermediates used in the manufacture of pharmaceutical and bioprocessed products. Used as prefilters to extend the life of membrane filters.
- **Foods and Beverages**
The clarification of beers, wines and spirits to a clear and bright finish without affecting taste or colour.
- **Inks and coatings**
For removal of agglomerates and gels with minimal loss of product.
- **Fine Chemicals**
- **Process Water Systems**
- **Suitable for steam and hot water sanitisation**
Polyfil™ cartridges are resistant to repeat steam sterilisation up to 135°C (275°F) and hot water cycles at up to 90°C (194°F).
- **Cosmetics**

Operating Temperature

Maximum continuous: 80°C (176°F)

Clean Water Flow Rates

- Typical clean water flow rate:
A 254mm (10") Polyfil™ II single cartridge exhibits the flow-ΔP characteristics indicated below, for solutions with a viscosity of 1 centipoise.



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