

Hall Pyke



Membrane Filtration

Hydrofil™ Plus

The SMART choice for filtration

Hydrofil™ Plus

Dual Nylon 6.6 Layer Membrane Cartridge Filters

The Porvair Filtration Group Hydrofil™ Plus microbial rated cartridge has been developed and manufactured for the filtration of liquids in the pharmaceutical, biotechnology and other critical applications. Hydrofil™ Plus utilises a naturally hydrophilic Nylon 6.6 membrane with a mirrored asymmetric pore structure. The cartridge's unique built in prefiltration membrane layer provides longer life and higher throughput.

Features and Benefits

- **Guaranteed microbial ratings**
Hydrofil™ Plus cartridges are validated for bacterial removal according to HIMA guidelines and ASTM F838-05, with a log reduction value >7. They are therefore suitable for applications requiring sterilising grade filtration.
- **Excellent chemical compatibility**
- **Cartridge integrity and low TOC levels**
Each Hydrofil™ Plus module of every cartridge is individually integrity tested. Each complete filter cartridge is flushed with pure water which is inspected daily for pyrogens using the standard LAL test. When required, they can be pulse flushed with 18MΩ.cm pyrogen-free ultra-clean water.
- **Suitable for steam sterilising**
- **Full traceability**
- **Controlled manufacturing environment**

Materials of Manufacture

Prefilter membrane:	Nylon	Drainage layer:	Polypropylene
Final membrane:	Nylon	Inner core:	Polypropylene
Filter membrane:	Nylon	Outer support:	Polypropylene
Membrane support:	Polypropylene	End fittings:	Polypropylene
Irrigation mesh (support):	Polypropylene	Support ring:	Stainless steel

Gaskets and O-Rings

FDA approved Ethylene Propylene, PTFE encapsulated, Silicone or Nitrile.

Maximum Differential Pressure

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

Sterilisation

In situ steam 30 x 25 minute cycles at 125°C (257°F).

Effective Filtration Area

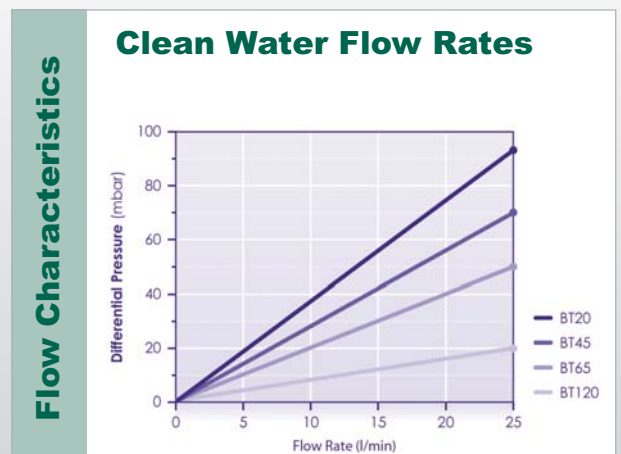
Absolute Microbial Rating	Effective Filtration Area (each 254mm (10") module)
0.2µm	0.5m ² (5.38ft ²)



Applications

Hydrofil™ Plus cartridges are suitable for the sub-micronic filtration of a wide range of process liquids, in applications where the characteristics of a naturally hydrophilic membrane are required.

- **Biopharmaceuticals**
For the sterilisation of biological fluids, cell culture media, sera and blood fractionations.
- **Fermentation**
For providing sterile feed stock for the production of antibiotics and enzymes.
- **API's**
- **LVP's**
For final filtration of Total Nutritional Fluids, dextrose, amino acids and saline solutions.
- **Beverages**
- **Pure water supply**



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