

BIOFIL PLUS

Polyethersulphone Membrane Cartridge Filters

Biofil Plus cartridge filters are composed of naturally hydrophilic polyethersulphone (PES) membrane with a mirrored asymmetric pore structure and built in pre-filtration layer. Ideally suited for sterile filtration of a wide range of fluids including buffers, biological fluids, tissue culture media, ophthalmic products and many others.



Features and Benefits

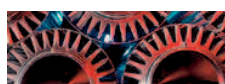
- Advanced membrane construction provides high throughput and long on steam life
- Low protein binding ensures maximum transmission of active ingredients
- Built in pre-filtration layer allows for even greater life.
- Patented fusion bonding construction eliminates risk of by-pass or extractables derived from binding agents.
- Broad range of chemical compatibilities including ultra pure water.

Applications

- Biopharmaceuticals – for clarification and sterilisation of a wide range of fluids such as buffers, biological fluids and serums.
- Beverages – for clarification and sterilisation
- Pure water supply – for use in demineralised and de-ionised water treatment systems.
- Fine chemicals – for clarification and sterilisation of a wide range of process chemicals

Quality Assurance

- Validated with *Brevundimonas diminuta* (ATCC# 19146) at $10^7/\text{cm}^2$ according to industry standards.
- Manufactured in clean rooms under Quality Management system certified to ISO 9001
- Every cartridge is individually tested during manufacture.
- Every cartridge is identified by a batch number and a unique serial number for complete traceability of manufacturing history.



Technical Specifications

Materials of Manufacture

Filter Membrane	Polyethersulphone
Support & Drainage	Polypropylene
Core, cage, end cap	Polypropylene
Sealing	Fusion binding

Bio-safety

- Meets USP Biological Reactivity Test, in vivo, in accordance with USP Class VI - 121°C plastics
- Non-pyrogenic per USP Bacterial Endotoxins (<0.25EU/ml)

A comprehensive Validation Guide is available.

Typical Effective Filtration Area

0.64 m² per 250mm (10") module

Operating Parameters

Maximum operating Temperature
80°C (180°F)(Short term)

Maximum differential pressure⁽¹⁾

Normal Flow Direction at:

20°C (68°F)	6.0 bar (87lb/in ²)
80°C (176°F)	4.0 bar (57lb/in ²)
100°C (212°F)	3.0 bar (43lb/in ²)
120°C (248°F)	2.0 bar (29lb/in ²)
125°C (257°F)	1.5 bar (22lb/in ²)

Reverse Flow Direction at:

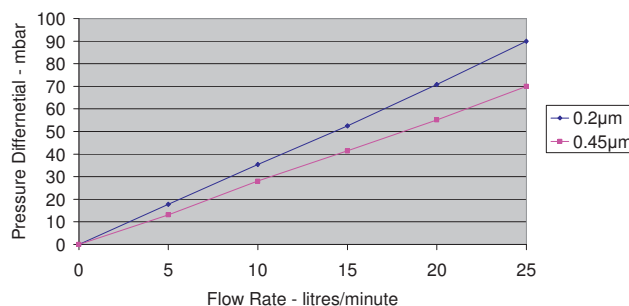
20°C (68°F)	2.1 bar (30lb/in ²)
80°C (176°F)	1.0 bar (15lb/in ²)
100°C (212°F)	0.5 bar (7lb/in ²)

⁽¹⁾ In compatible fluids

Sterilisation

In-line steam 112 x 20 minutes cycles at 125°C.

Clean Water Flow vs. Differential Pressure (250mm Cartridge)
Biofil Plus

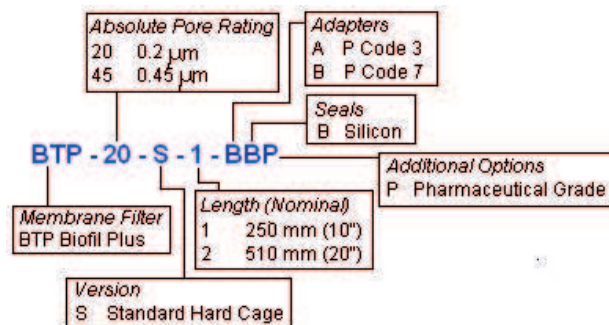


Typical Clean Water Flow Rate based on 250mm (10") element; water at 20°C; viscosity 1cP.

For solutions with a viscosity greater than 1cP, multiply the indicated pressure by the viscosity in cP.

Cartridge Numbering Guide

Full Microfiltration Cartridge Numbering Guide available on request.



MF77

porvair
filtration group

Ihr zuständiger Distributor:



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