

PESEP Filter Cartridges

Polyethersulfone Bioburden and Particulate Removal

MIF
Masterfilter

Masterfilter PESEP series filter cartridges are specifically designed to very fine filtration with a unique capacity to reduce the bioburden level of Pharmaceutical and Biological solutions. Thanks to its unique single layer, asymmetric hydrophilic polyethersulfone membrane, this filter is characterized by an excellent throughput and a higher durability in many applications. The result is the most reliable, economical and efficient particulate and microbial removal than any other microbial filter can offer



Application

- Biological
- Buffer and culture media
- Ophthalmics
- Antibiotics
- Mineral Water
- Wine

Features and Benefits

- High dirt holding capacity
- Excellent flow rates and longer service life
- Large chemical compatibility and very low adsorption level
- Wide range of removal rate from 1,2 to 0,2 μm allows the best choice for different applications
- All the materials used in this filter meet the requirements of US 21 CFR and E

Materials of Construction

- **Filter media:** Asymmetric PES
- **Support Layers:** Polypropylene
- **Inner Core:** Polypropylene
- **Outer Cage:** Polypropylene
- **End Caps:** Polypropylene
- **O-Rings:** Silicone or EPDM

Operating Parameters

- **Max differential pressure:** 4,0 bar (25°C)
2,4 bar (70°C)
- **Max operating temperature:** 90°C
- **In situ Hot Water Sanitization:** 80°C
- **Autoclaving:** 130°C
- **In-situ steam sterilization:** 121°C, 1 bar
20 minutes

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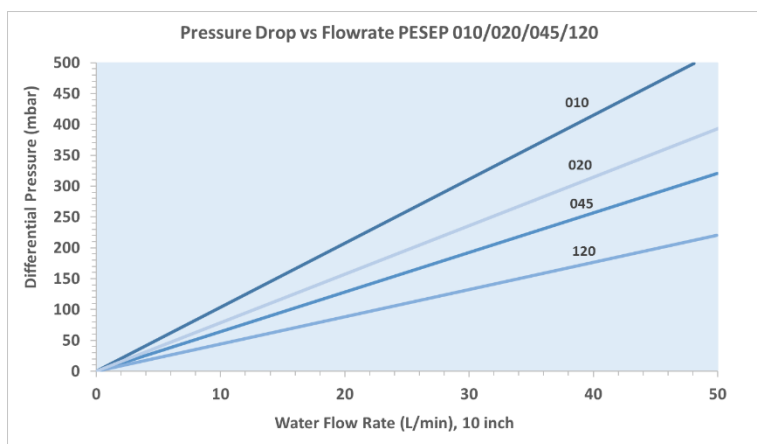


Biological Safety & Quality Standard

- Comply with USP Plastics Class VI - 121 °C and ISO10993 equivalents
- Bacterial Endotoxin: Aqueous extraction of autoclaved filter contains < 0.25 EU/mL as determined by Limulus Amebocyte Lysate (LAL), USP <85>
- Non-fiber Releasing: Component materials meet the criteria for a “Non-fiber-releasing filter” as defined in 21 CFR 210.3 (b) (6)
- Component Material Toxicity: Meet the criteria of the USP <88> Biological Reactivity Test for Class VI-121°C plastics
- Comply with the relevant requirements of EU 1935/2004 and EU directive 2002/72/EC
- Manufactured for use in conformance with cGMP

Effective Filtration Area (EFA)

0,6 m² / Ø 69mm and 10” module



Part Numbers

PESEP - - -

Code	Removal rating Micron
010	0,1
020	0,2
045	0,45
065	0,65
120	1,2
500	5,0

Code	Length	
	mm	inch
05	65	5
10	254	10
20	508	20
30	762	30
40	1016	40

Code	End caps
STC	Sartorius code 28
HTC	222 O-ring/flat (Code 3)
HSF	226 O-ring/fin (Code 7)
HSC	226 O-ring/flat top
STZ	DHZ Z
CP2	R-2"
CP1	R-1"
HSH	H code
HSU	MCY 1001
SLK	Sealkleen retrofit

Code	O-Rings
S	Silicone
E	EPDM
V	Viton