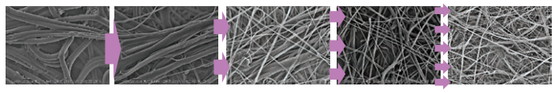
MultiPoly® Filter Cartridges

Multi-layer Pleated Polypropylene Media · Pre-filter for Liquids

MultiPoly® Filter Cartridges are composed entirely of pleated polypropylene. Characteristics of the depth filter design include graded pore size and high dirt holding capacity which eliminates high viscosity contaminants (including gels and agglomerates) and avoids filter surface jams. The graded pore size distribution from coarse (upstream) to fine (down-stream) removes particles gradually and extends the filter's service life making it especially suited for high suspended particulates, colloids, and viscous liquids .

Features and Benefits

- 5 to 7 layers of PP media with a graded pore size distribution enables additional particle loading and high dirt holding capacity



- Multi-layer nano fiber media provides excellent removal of contaminants including gels and agglomerates
- Polypropylene construction yields excellent chemical compatibility

Quality Standards

- Manufactured in a facility which adheres to ISO 9001:2015 Practices .
- Full Regulatory Compliance with following :
  - •Bacterial Endotoxin :Aqueous extraction of autocalved filter contains <0.25 EU/ml as determined by Limulus Amebcyte 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 requirement of USP <87> In Vitro Cytotoxicity Test ; Meet the Criteria of USP<88> Biological Reactivity Test for Class VI-121℃ plastics
  - •TOC/Conductivity at 25 ℃: Autoclaved filter effluent meet the USP<643> for Total Organic Carbon and USP<645> for Water Conductivity per WFI requirements after a UPW flush of specified volume .
  - •Particle Shedding : Autoclaved filter effluent meet the USP<788>for large volume Injections .
  - •Indirect Food Additive: All component materials meet the FDA Indirect Food Additive requirements cited in 21 CFR 177-182 ,and EU framework regulation [1935/2004/EC].

Typical Applications

- Culture Medium
- Fermentation Broths
- Gel Materials
- High Viscosity Materials
- Serums

Materials of Construction

Filter Media	Multi-Layer Nano Fiber Polypropylene
Support	Polypropylene
Core/Cage/End Caps	Polypropylene

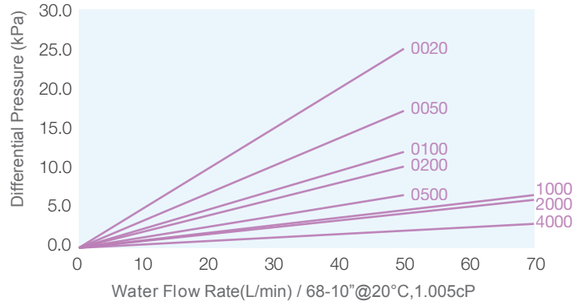
Operating Conditions

Max. Operating Pressure	6.9 bar (100 psi) at 25 °C 4.0 bar (58 psi) at 60 °C 2.4 bar (35 psi) at 80 °C
Max. Differential Pressure	Forward 6.9 bar (100 psi) at 25 °C 4.0 bar (58 psi) at 60 °C 2.4 bar (35 psi) at 80 °C Reverse 3.0 bar (44 psi) at 25 °C 1.0 bar (15 psi) at 80 °C
Effective Filtration Area	0.26-0.29m²/ Φ 69-10 inch-Layer

Sterilization

Inline Steam Sterilization	up to 20 cycles (125°C for 30min< 0.3 bar per cycle)

Flow Rate Characteristics



Ordering Information

PFSA2 | Removal Ratings | End Cap | Nominal Length | Seal Material | **-P**

Removal Ratings		End Cap	Nominal Length	Seal Material
0020=0.2μm	**1000**=10μm	**HSF**=226 /Fin (PBT Insert)	**05**= 5"	**S**=Silicone
0030=0.3μm	**2000**=20μm	**HSC**=226 /Flat (PBT Insert)	**10**=10"	**E**=EPDM
0050=0.5μm	**4000**=40μm	**HTF**=222 /Fin (PBT Insert)	**20**=20"	**V**=Viton
0060=0.6μm	**5000**=50μm	**HTC**=222 /Flat (PBT Insert)	**30**=30"	**P**=PFA/Viton
0120=1.2μm	**7000**=70μm	**DOE**=Double Open End	**40**=40"	
0150=1.5μm	**9000**=90μm			
0200=2.0μm	**15000**=150μm			
0500=5.0μm				