PolyFlow® Filter Cartridges

Polypropylene · Pre-filter for Liquids

PolyFlow® Filter Cartridges are composed entirely of pleated polypropylene microfiber which provides great filtration performance with a low cost. Characteristics include high flow rates, dirt holding capacity, and filtration efficiency making it the ideal solution for the pre-filtration of liquids.

Features and Benefits

- High filtration efficiency
- Broad chemical compatibility makes it suitable for acids, bases, and solvents
- Pleated surface area provides superior flow rate and extended service life
- Welded design eliminates the need for adhesives which can be a contamination source
- Available in nominal ratings from 0.1μm to 25μm for precise particle removal

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

- Biological Products
- Fermentation Liquids
- Infusion Solutions
- Process Water
- RO Water

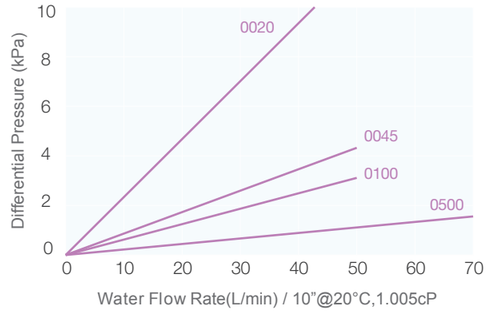
Materials of Construction

Filter Media	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	0.51-0.61m² / Φ 69-10 inch

Flow Rate Characteristics



Sterilization

Inline Steam Sterilization	Up to 20 cycles （135 °C for 30 min < 0.3 bar per cycle）

Ordering Information

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

Removal Ratings		End Cap	Nominal Length	Seal Material
0020=0.2μm	**0300**=3.0μm	**HSF**=226 /Fin (PBT Insert)	**05** =5"	**S** =Silicone
0045=0.45μm	**0500**=5.0μm	**HSC**=226 /Flat (PBT Insert)	**10** =10"	**E** =EPDM
0100=1.0μm	**1000**=10μm	**HTF**=222 /Fin (PBT Insert)	**20** =20"	**V** =Viton
	2000=20μm	**HTC**=222 /Flat (PBT Insert)	**30** =30"	**P**=PFA/Viton
		DOE=Double Open End	**40** =40"	