

TeflonFlow FILTER CARTRIDGES

HYDROPHOBIC PTFE FILTERS WITH POLYPROPYLENE SUPPORTS, IDEAL FOR STERILE FILTRATION OF SOLVENTS, CORROSIVE AND OXIDIZED LIQUIDS

TeflonFlow Filter Cartridges are composed of a hydrophobic PTFE membrane with polypropylene construction. The filter is highly resistant to organic & inorganic corrosion. These filters are ideally suited for the sterile filtration of solvents, corrosive and oxidized liquids.

FEATURE	BENEFIT
PTFE membrane with polypropylene construction (supports)	Inherently hydrophobic
	Broad chemical compatibility
	High tolerance for aggressive acids and bases
	High flow rates
	Low extractables

QUALITY STANDARDS

Bacterial Retention	Retention of 10 ⁷ CFU/cm ² Brevundimonas Diminuta (ATCC 19146) according to ASTM F838 methodology
Quality Assurance	These products are manufactured in a facility which adheres to ISO 9001 Practices. 100% Integrity tested and traceable with unique serial number.
TOC / Conductivity at 25°C	Autoclaved filter effluent meets 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 meets the requirements in USP <788> for large volume injections
Non-Fiber Releasing	Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3 (b) (6)
Bacterial Endotoxin	Aqueous extraction of autoclaved filter contains < 0.25 EU/mL as determined by Limulus; Amebocyte Lysate (LAL), USP <85>.
USP <87> Cytotoxicity	Meet the requirement of USP <87> In Vitro Cytotoxicity Test
USP <88> Biological Toxicity	Meet the criteria of the USP <88> Biological Reactivity Test for Class VI-121°C plastics.
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].

SPECIFICATIONS

Filter media	Hydrophobic PTFE membrane (single layer)
Supports/core/cage/end caps	Polypropylene
Effective filtration area	0.68 - 0.99 m ² (7.3 - 10.7 ft ²)/ φ69-10 inch

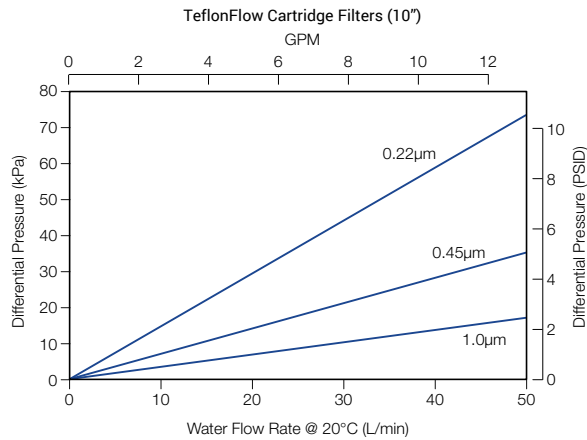


Typical Applications

- Corrosive Liquid Sterilization and Particle Removal
- Oxidized Liquids
- Solvents

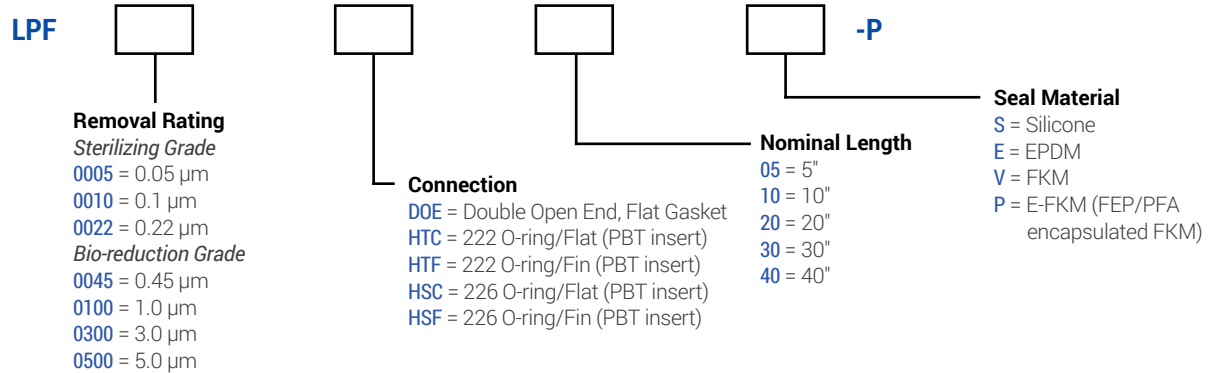
O-rings	Silicone, EPDM, FKM, FEP/PFA encapsulated FKM
O-ring internal insert	PBT
Cartridge diameter	69 mm (2.7 in.)
Max. Operating pressure	0.69 MPa (6.9 bar, 100 psi) at 25°C 0.40 MPa (4.0 bar, 58 psi) at 60°C 0.24 MPa (2.4 bar, 35 psi) at 80°C
Max. Differential pressure	Forward: 0.69 MPa (6.9 bar, 100 psi) at 25°C 0.40 MPa (4.0 bar, 58 psi) at 60°C 0.24 MPa (2.4 bar, 35 psi) at 80°C Reverse: 0.3 MPa (3.0 bar, 44 psi) at 25°C 0.1 MPa (1.0 bar, 15 psi) at 80°C
Steam sterilization	up to 20 cycles for 30 minutes at 135°C at Max. Differential Pressure of 0.3 bar (4.3 psi)
Autoclave sterilization	up to 120 cycles for 30 minutes at 130°C per cycle
Bubble Point	≥0.11 Mpa (60%/40%IPA/Water), 0.22 µm
Diffusion Flow	≤16 ml/min/10"cartridge @ 80 KPa (60%/40%IPA/Water) , 0.22 µm
Water Intrusion Test	≤0.38 ml/min/10"cartridge @ 0.25 MPa, 0.22 µm

FLOW RATES



ORDERING INFORMATION

EXAMPLE: **LPF0010HSF10P-P** = 0.1µm, 226/Fin, 10" filter with E-FKM seals



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