

PureFlo Hi Temp PTFE Filters (PTFE Membrane w/Hi Temp PP construction)

High Compatibility level

PureFlo® Hi Temp PTFE filter cartridges are highly retentive hydrophobic PTFE membrane filters with High Temperature polypropylene components that have been specially designed for critical liquid and gas sterilization applications. The PTFE membrane with High Temperature construction provides excellent chemical compatibility and superior flow per unit area for steam-in-place and hot gas applications. No adhesives, binders, or surfactants are used in the manufacturing process and all cartridges are rinsed with high-purity water to reduce extractables and downtime.

The naturally hydrophobic PTFE membrane is ideally suited for aggressive chemicals and gas filtration. In addition, the hydrophobic membrane provides superior flow and pressure drop characteristics per unit area for higher temperature venting applications. All filter cartridges are 100% integrity tested to ensure filter performance each and every time out of the package. PureFlo Hi Temp PTFE filter cartridges are well-suited for critical applications where superior flow and particle or microorganism removal efficiency is required in a high temperature environment.

Specification

Materials of Construction: Media: PTFE membrane (hydrophobic)
Media Supports: Polypropylene media
O-ring insert: Stainless steel 316L
Cage, Core, End Caps: High Temperature tolerant polypropylene
O-Rings: Silicone, EPDM, Fluoro-Elastomer, Buna N,

Effective Filtration Area: 6.5ft² (0.6m²) per 10" cartridge element

Nominal Dimensions: Lengths: 5 in. (13 cm), 10 in. (25 cm), 20 in. (50 cm), 30 in. (76 cm), 40 in. (102cm)
Diameter: 2.75 in. (70mm)

Available Ratings: 0.1um, 0.2um (0.01um in Gas), 0.45um, 0.65um, 1.0um, 3.0um, 5.0um, & 10.0um

Operating Conditions: Maximum Forward Differential Pressure: 6 bar (87 psid) at 20 °C
Maximum Reverse Differential Pressure: 3.0 bar (44 psid) at 20 °C
Maximum Operating Temperature: 80° C

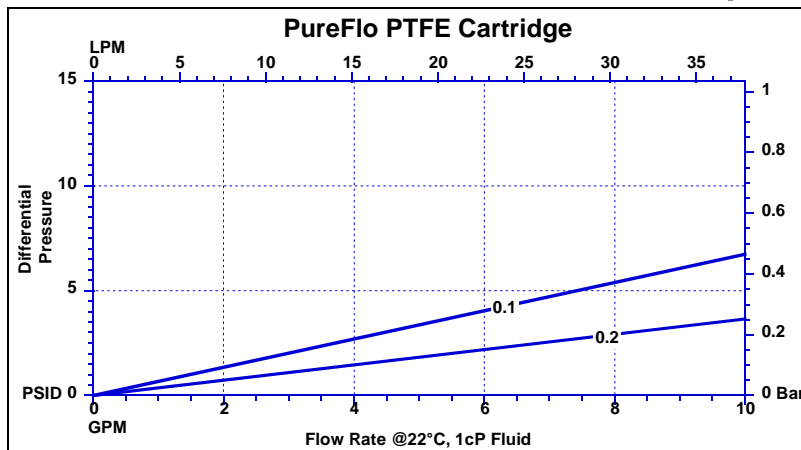
Regulatory Compliance: The filters are constructed with polypropylene resins and filtration media in compliance with 21CFR Part 177 of the US Code of Federal Regulations and USP Class VI Biological Test for Plastic.



Applications

High temp Chemicals	Hot Water
Solvent filtration	Hot Gas filtration
Tank vent	Gas Sterilization
Fine Chemicals	Fermentation

PureFlo Hi Temp PTFE Filters



Specifications (cont.)

Sterilization:

The filters can be sterilized by autoclaving for up to **200** cycles at 125°C (250°F) for 30 minutes. The filters can also be sterilized by steam-in-place procedure at 142°C (287.6°F) for **100** - 30 minute cycles at less than 0.3 bar differential pressure. The filters can also be sanitized by hot water or common chemicals that are compatible with polypropylene, stainless steel and PTFE.

Retention: For 0.2µm (0.01µm in Gas)

Liquid: Complete retention of $\geq 10^7$ organisms/cm² of *Brevundimonas diminuta* in accordance with the current HIMA challenge methodology (ASTM F838-83).

Gas: Validated by aerosol bacterial (*Staphylococcus aureus* and Viral (φX174 Bacteriophage) challenge testing.

Integrity tested:

All cartridges are 100% integrity tested

PureFlo Hi Temp PTFE Filter Cartridge Ordering Guide

PureFlo PTFE Filter Cartridges	Removal Rating	End Modifications	Length	O-Ring / Gasket Materials	Package Qty	Inserts
MBF = Hydrophobic PTFE w/ High Temp PP Construction	10 - 0.10 micron	0 = 222 O-Ring Flat	1 - 10"	E = EPDM	1 = 1pc/ pack	Blank = Standard -5 = Stainless Steel Insert
	20 - 0.20 micron	5 = 222 O-Ring Spear	2 - 20"	N = Buna N		
	45 - 0.45 micron	6 = 226 O-Ring Flat	3 - 30"	S = Silicone		
	1X - 1.0 micron	7 = 226 O-Ring Spear	4 - 40"	V = Viton		
	3X - 3.0 micron	F = DOE Flat Gasket	5 = 5"	T = TEV*		
	5X - 5.0 micron	S = SOE Flat Gasket	9 = 9.75"	U = TES*		
9X - 10 micron	Z = SOE Internal 213 O-ring Flat **					
Example - PureFlo PTFE Cartridge, 10", 1.0 micron cartridge, with 2-222 Silicone o-ring, Flat end cap, and no insert would be MBF1X01S1						
Code 6 & 7 come with an imbedded SS o-ring insert		* - not available in Code Z		** - only available in 5", 10" and 20"		

Your Local Distributor:

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