

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

High Compatibility Level

PureFlo® Hi Temp PTFE 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.



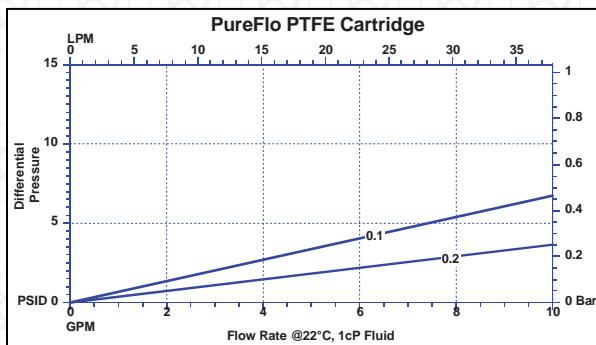
Applications

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

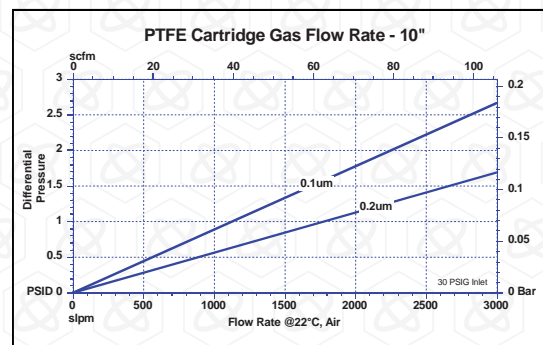
Specifications

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, Fluoroelastomer, Buna N,
Effective Filtration Area:	7.0 ft ² (0.65 m ²) per 10" cartridge element
Nominal Dimensions:	Lengths: 5 in. (13 cm), 10 in. (25 cm), 20 in. (51 cm), 30 in. (76 cm), 40 in. (102 cm) Diameter: 2.75 in. (70 mm)
Available Ratings:	0.1 µm, 0.2 µm (0.01 µm in Gas), 0.45 µm, 0.65 µm, 1.0 µm, 3.0 µm, 5.0 µm, & 10.0 µm
Operating Conditions:	Maximum Forward Differential Pressure: 6.0 bar (87 psid) at 20 °C 3.0 bar (43.5 psid) at 80 °C Maximum Reverse Differential Pressure: 3.0 bar (43.5 psid) at 20 °C 1.0 bar (14.5 psid) at 80 °C Maximum Operating Temperature: 80° C
Regulatory Compliance:	The filters are constructed with polypropylene resins and filtration media in compliance with 21 CFR Part 177 of the US Code of Federal Regulations and USP Class VI Biological Test for Plastic.

PureFlo Hi Temp PTFE Cartridges



Liquid



Gas

Specifications (cont.)

Sterilization & Autoclaving:

The filters can be sterilized by autoclaving for up to 100 cycles at 135°C (275°F) for 30 minutes. The filters can also be sterilized by steam-in-place procedure up to 100 cycles at 142°C (287.6°F) for 30 minutes at less than 0.3 bar (4.35 psi) differential pressure. The filters can also be sanitized by hot water or common chemicals that are compatible with filter components.

Retention: For 0.2 µm (0.003 µm in Gas)

Liquid: Complete retention of $\geq 10^7$ organisms/cm² of *Brevundimonas diminuta* in accordance with the current HIMA challenge methodology (ASTM F838-05).

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

Integrity tested: All cartridges @22°C are 100% integrity with tested — validation guide available upon request.

PureFlo Hi Temp PTFE Cartridges 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	-5 = Stainless Steel Insert (standard)
	20 - 0.20 micron	3 = 222 O-Ring w/tabs Spear	2 - 20"	N = Buna N		
	45 - 0.45 micron	5 = 222 O-Ring Spear	3 - 30"	P = Peroxide Cured EPDM		
	1X - 1.0 micron	6 = 226 O-Ring Flat	4 - 40"	Q = Platinum Cured Silicon		
	3X - 3.0 micron	7 = 226 O-Ring Spear	5 = 5"	S = Silicone		
	5X - 5.0 micron	8 = 223 O-Ring Flat	9 = 9.75"	T = TEV or FEP Gasket		
	9X - 10 micron	F = DOE Flat Gasket		U = TES*		
		S = SOE Flat Gasket		V = Fluoroelastomer		
		Z = SOE Internal o-ring Flat **				

Example - PureFlo PTFE Cartridge, 10", 1.0 micron cartridge, with 2-222 Silicone o-ring, Flat end cap, and SS insert would be MBF1X01S1-5

* - not available in Code Z ** - only available in 5", 9.75", 10" and 20", retrofit for DOE housings

ZenPure

Your Local Distributor:

ZenPure

North & South Americas:
ZenPure Americas, Inc
www.zenpure.com
Info-us@zenpure.com
703-335-9910

All Other Regions:
ZenPure Corporation
www.zenpure.com
info@zenpure.com
+86 571 2288 6800

ZenPure and PureFlo are registered trademarks of ZenPure Corporation or an affiliated company. Copyright 2003-2012 ZenPure or an affiliated company. All rights reserved.

