



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

High Compatibility level

PureFlo® Hi Temp PTFE filter cartridges are highly retentive hydrophobic PTFE membrane filters with Nylon components that have been specially designed for critical liquid and gas sterilization applications as possible alternative to all Teflon® filters. The PTFE membrane with Nylon 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 with Nylon construction 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 micro-organism removal efficiency is required in a high temperature or aggressive environments.



Applications

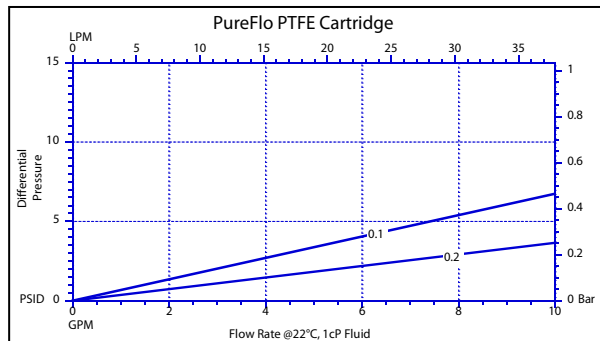
High temp Chemicals	Hot Water
Solvent filtration	Hot Gas filtration
Tank vent	Gas Sterilization
Fine Chemicals	Fermentation

Specification

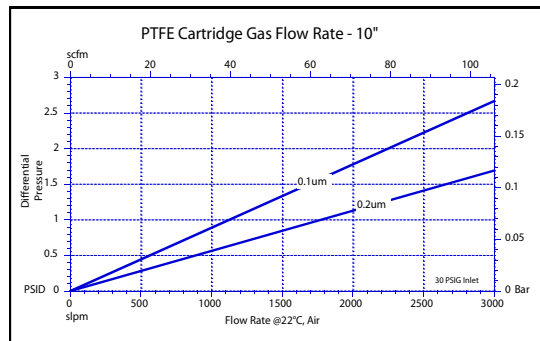
Materials of Construction:	Media: PTFE membrane (hydrophobic) Media Supports: Nylon O-ring insert: Stainless steel 316L option Cage, Core, End Caps: Nylon O-Rings: Silicone, EPDM, Fluoroelastomer, Buna N
Effective Filtration Area:	7.0ft ² (0.65m ²) per 10" cartridge element
Nominal Dimensions:	Lengths: 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: 6.0 bar (87 psid) at 20 °C 3.0 bar (44 psid) at 80 °C Maximum Reverse Differential Pressure: 3.0 bar (44 psid) at 20 °C 1.0 bar (14.5 psid) at 80 °C Maximum Operating Temperature: 95° 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.



PureFlo Hi Temp PTFE Filters



Liquid



Gas

Specifications (cont.)

Sterilization & Autoclaving:

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

Retention: For 0.2um (0.003um 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 (X174 Bacteriophage) challenge testing.

Integrity tested: All cartridges are 100% integrity tested—Validation Guide available upon request

PureFlo Hi Temp PTFE Filter Cartridge with Nylon Construction Ordering Guide

PureFlo Filter Cartridges	Removal Rating	End Modifications	Length	O-Ring / Gasket Materials	Package Qty	Options
MNF = Hydrophobic PTFE W/ Nylon Construction	10 - 0.10 micron 20 - 0.20 micron 45 - 0.45 micron 1X - 1.0 micron 3X - 3.0 micron 5X - 5.0 micron 9X - 10 micron	0 = 222 O-Ring Flat 5 = 222 O-Ring Spear 6 = 226 O-Ring Flat 7 = 226 O-Ring Spear F = DOE Flat Gasket S = SOE Flat Gasket Y = DOE Internal 213 O-ring** Z = SOE Internal 213 O-ring Flat**	1 - 10" 2 - 20" 3 - 30" 4 - 40" 5 = 5" 9 = 9.75"	E = EPDM N = Buna N S = Silicone V = Viton T = TEV* U = TES*	1 = 1pc/ pack	Blank = Standard -5 = Stainless Steel Insert
Example- PTFE w/ Nylon Construction filter, 10", 0.2 micron cartridge, with 2-222 Silicone o-ring, Flat end cap, and no insert will be 441120015						
* - not available in Code Z ** - only available in 5", 10" and 20"						

