

PureFlo PTFE with PE construction Cartridges (PTFE Membrane w/PE construction)

PureFlo® PTFE w/ PE construction cartridges are highly retentive and naturally hydrophobic. The polyethylene (PE) support structure is a reliable choice for the purification of compressed and vent gases, solvents, and chemicals. The PTFE membrane with high-density polyethylene (HDPE) construction is an excellent economic alternative to the more expensive fluoropolymer-based cartridges.

No adhesives, binders, or surfactants are used in the manufacturing process. PureFlo® Polyethylene Cartridges are absolute rated to ensure consistent filter performance each and every time out of the package. All filter cartridges are 100% integrity tested and flushed to ensure filter performance. PureFlo® PTFE/PE filter cartridges are well-suited for critical applications where superior microorganism removal efficiency is required in a high temperature or aggressive environments.



Applications

Clarification	Solvents
Hard Particle	Food & Beverages
Vacuum Pump	Pharmaceuticals
Chemicals	Biologics
Inks, Dyes	Tank Vent
Aerator	Vent

Specifications

Materials of Construction: Media: PTFE membrane (hydrophobic)
Media Supports: Polyethylene
Cage, Core, End Caps: HDPE
O-Rings: Silicone, EPDM, Fluoroelastomer, Buna N

Effective Filtration Area: 0.52m² (6.0 ft²) per 10" cartridge element

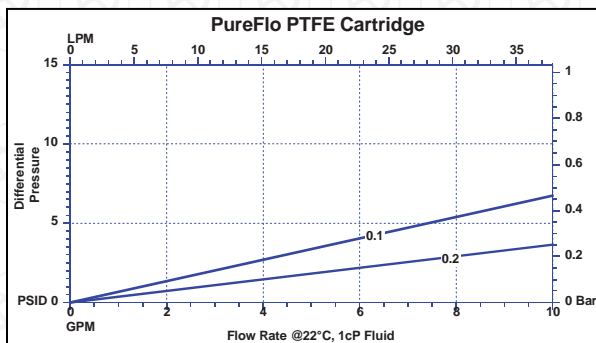
Nominal Dimensions: Lengths: 5 in. (13 cm), 10 in. (25 cm), 20 in. (51 cm), 30 in. (76 cm),
40 in. (102 cm)
Diameter: 2.75 in. (70 mm)

Available Ratings: 0.1 µm, 0.2 µm (0.003 µm in gas), 0.45 µm, 0.65 µm, 1.0 µm, 3.0 µm,
5.0 µm, and 10.0 µm

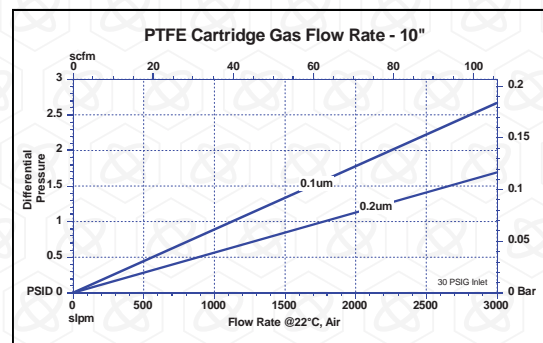
Operating Conditions: Maximum Forward Differential Pressure: 6.0 bar (87 psid) at 22 °C
3.0 bar (43.5 psid) at 80 °C
Maximum Reverse Differential Pressure: 3.0 bar (43.5 psid) at 22 °C
1.0 bar (14.5 psid) at 80 °C
Maximum Operating Temperature: 60 °C

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 PTFE/PE construction Cartridges



Liquid



Gas

Specifications (cont.)

Sterilization & Autoclaving:

No autoclaving or steam sterilization.

The filters can be sanitized by common chemicals that are compatible with the 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 (ϕ X174 Bacteriophage) challenge testing.

Integrity tested: All cartridges are 100% integrity tested — validation guide available upon request.

PureFlo PTFE/PE construction Cartridge Ordering Guide

PureFlo PTFE Filter Cartridges	Removal Rating	End Modifications	Length	O-Ring / Gasket Materials	Package Qty	Inserts
MEF = Hydrophobic PTFE W/ PE Construction	10 - 0.10 micron	0 = 222 O-Ring Flat	1 - 10"	E = EPDM	1 = 1pc/ pack	Blank = 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 w/ PE Cartridge, 10", 1.0 micron cartridge, with 2-222 Silicone o-ring, Flat end cap, and no insert would be MEF1X01S1						
* - not available in Code Z ** - only available in 5", 9.75", 10" and 20", retrofit for DOE housings						

ZenPure

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