GLOBAL FILTER

Validated Filtration Solutions to Industry Leaders™

Filter Data Sheet

High Purity- Pharmaceutical Grade PTFE

Hydrophobic PTFE Membrane Cartridges for Sterilizing in Pharmaceuticals & Biotechnology Applications

PPTFE Pharmaceutical Grade sterilizing filter cartridges provide optimized filtration performance in sterile air/gas and venting applications. The single layer PTFE membrane, with over double the hydrophobicity of polypropylene or PVDF, is the best choice to prevent water intrusion and resulting microbial growth.

Each PPTFE cartridge is integrity tested during manufacturing and is supported by a validation guide for regulatory compliance. PPTFE elements are fully validated as sterilizing grade filters in liquids in accordance with HIMA and ASTM F838-05 guidelines and in gases through full retention of the MS2 phage in an aerosol challenge.

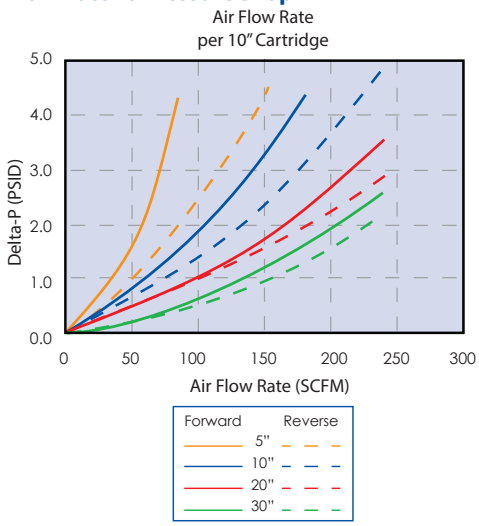
Typical Applications

- Sterile gas filtration of fermentor inlets
- Off-gassing downstream of fermentors and bioreactors
- Autoclave vent filters
- WFI tank vents
- Sterile air supply for service gases (i.e. filling lines in blow-fill-seal systems)

Dimensions

Length:
5 to 40 inches (12.7 to 101.6 cm) nominal
Outside Diameter:
2.70 inches (7.0 cm) nominal

Flow Rate vs Pressure Drop



Construction Materials

Membrane ..... PTFE
Prefiltration Media ..... Polypropylene
Support Layers ..... Polypropylene
Cage/Core/Adapters ..... Polypropylene
Seals ..... Buna, EPDM, Silicone, Viton®, Teflon® Encapsulated Viton®

Sanitization/Sterilization

In-Line Steaming .....134°C, 30 min., max. ΔP 7 psi
Hot Water ..... 85°- 95°C, 30 min., max. ΔP 7 psi
In-Line Steaming ..... 134°C, 30 min.

Maximum Recommended Operating Conditions

Temperature ..... 284°F (140°C)
Forward ..... 72 PSI (5 bar) at 68˚F (20°C)
7 PSI (0.5 bar) at 284°F (140°C)
Reverse ..... 44 PSI (3 bar) at 68°F (20°C)
7 PSI (0.5 bar) at 284°F (140°C)

Toxicity

All polypropylene components meet the specifications for biological safety per USP Class VI – 121˚C for plastics.

FDA Listed Materials

Manufactured from materials which are listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Ordering Information

PPTFE	Rating (µ)	A	Length, Nominal	C	End Cap Style	O-Rings/Gaskets
	0.2		5" (12.7 cm)		2 = DOE Flat Gasket	B = Buna-N
			10" (25.4 cm)		3 = 222 w/ Fin	E = EPDM
			20" (50.8 cm)		4 = 222 w/ Flat Cap	S = Silicone
			30" (76.2 cm)		6 = 226 w/ Flat Cap	V = Viton®
			40" (101.6 cm)		7 = 226 w/ Fin	T = Teflon® Encapsulated Viton®

DISCLAIMER: Filtration data presented is representative of performance observed in controlled laboratory testing. It is not given as a warranty, specification or statement of fitness for use. Specific performance can vary widely depending on contaminant type, fluid properties, flow rates and environmental conditions. It is recommended that users conduct thorough qualification testing to assure the product functions as required.

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