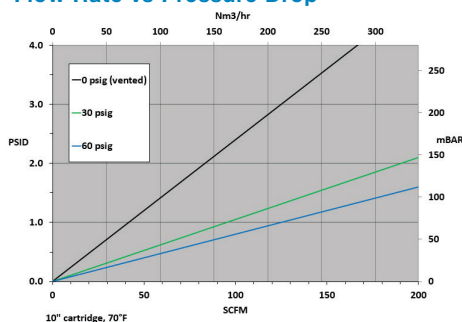


## PPTFE-Series Pharmaceutical Grade PTFE

PPTFE-Series High Purity Pharmaceutical Grade PTFE Filter Cartridges, with expanded polytetrafluoroethylene (PTFE) membrane, provide optimized filtration performance in sterile air/gas filtration and venting applications. The single layer PTFE membrane, with over twice 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. Manufactured in a clean-room environment to maintain high standards of purity and cleanliness.



### Flow Rate vs Pressure Drop



### 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)

### Construction Materials

**Membrane**..... PTFE  
**Prefiltration Media**..... Polypropylene  
**Support Layers**..... Polypropylene  
**Cage/Core/Adapters**..... Polypropylene  
**O-Rings/Gaskets**..... Buna, EPDM, Silicone  
 Teflon® Encapsulated Viton®<sup>1</sup>, Viton®,  
 Teflon® Encapsulated Silicone<sup>2</sup>

**Note:** O-ring adapters include integral reinforcement that will not deform with repeated steam sterilization or hot water sanitation cycles.

### Dimension (Nominal)

**Length** ..... 5 to 40 in (12.7 to 101.6 cm)  
**Outside Diameter** ..... 2.78 in (7.06 cm)

### Operating Conditions

**Change Out ΔP (recommended)** ..... 35 PSID (2.4 bar)  
**Temperature (max)** ..... 248°F (120°C)  
**Differential Pressure (max)** ..... 72 PSID at 68°F  
 (5.0 bar at 20°C)

### Sanitization/Sterilization

**Filtered Hot Water** ..... 185° - 203°F (85°-95°C) for 30 min  
 max ΔP 7 psi  
**Steam Sterilization** ..... 273°F (134°C) for 30 min  
 max ΔP 7 psi, 100 cycles

### Toxicity

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

### Food Safety Compliance

Materials of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulations, 21CFR. Materials used to produce filter media and hardware are deemed safe for use in contact with foodstuffs in accordance with EU Directives 1935/2004, and/or 10/2011.

### Ordering Information

PPTFE	Rating(μ)	A	Length	C	End Cap Style	O-Rings/Gaskets
	0.2		5" (12.7 cm)		3 = 222 w/Fin	B = Buna
			10" (25.4cm)		4 = 222 w/Flat Cap	E = EPDM
			20" (50.8 cm)		6 = 226 w/Flat Cap	S = Silicone
			30" (76.2 cm)		7 = 226 w/Fin	T = Teflon® Encapsulated Viton® <sup>1</sup>
			40" (101.6 cm)		28 = 222 3-Tabs w/ Fin	V = Viton®
						Z = Teflon® Encapsulated Silicone <sup>2</sup>

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. For additional technical support, a product Performance Guide is available upon request.

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