

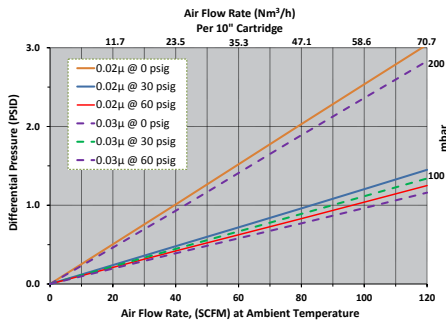


**High Purity - Hydrophobic Polysulfone (PSH) Membrane**  
Hydrophobic Polysulfone Membrane for Air/Gas Applications

**Hydrophobic Polysulfone Membrane Cartridges** provide a highly cost-effective alternative to PTFE or PVDF membrane cartridges for air, bulk gas, and tank vent applications. PSH cartridges offer high moisture resistance and high flowrates at low pressure drops. Constructed using high purity polypropylene hardware and the latest thermal-bonding equipment, PSH series cartridges offer an outstanding value.



**Flow Rate vs Pressure Drop**



**Typical Applications**

- Tank Vent
- Fermentation
- Air, Nitrogen, Other Inert Gases

**Toxicity**

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

**Construction Materials**

**Membrane**.....Hydrophobic Polysulfone  
**Support Media**.....Polypropylene  
**End Caps**..... Polypropylene  
**Center Core**.....Polypropylene  
**Outer Support Cage**.....Polypropylene  
**O-Rings/Gaskets**.....Buna, EPDM, Silicone, Viton®, Teflon® Encapsulated Viton®

**Sanitization/Sterilization**

**Filtered Hot Water**.....80°C for 30 min.  
**Steam Sterilization**.....121°C for 30 min., multiple cycles

**Chemicals:** Cartridges are chemically compatible with most chemicals and sanitizing agents.  
**Note:** Stainless steel insert option needed for all cartridges being hot water sanitized or steam sterilized.

**Dimensions**

**Length:** 10 to 40 inches (25.4 to 101.6 cm) nominal  
**Outside Diameter:** 2.70 inches (7.0 cm) nominal  
**Maximum Recommended Operating Conditions Temperature**.....176°F (80°C)

**Maximum Differential Pressures**

**Forward**.....50 PSI (3.4 bar) at 20°C  
**Reverse**.....40 PSI (2.7 bar) at 20°C

**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 2002/72/EC, 1935/2004, and/or 10/2011.

**Ordering Information**

PSH	Rating (µ)	A	Length	C	End Cap Style	O-Rings/Gaskets	-	Adders
	0.02		10" (25.4 cm)		2 = DOE Flat Gasket	B = Buna		I = Stainless Steel Insert
	0.03		20" (50.8 cm)		3 = 222 w/ Fin	E = EPDM		HP = Heavy Poly Core
			30" (76.2 cm)		4 = 222 w/ Flat Cap	S = Silicone		CS = 316ss Compression Spring
			40" (101.6 cm)		6 = 226 w/ Flat Cap	V = Viton®		
					7 = 226 w/ Fin	T = Teflon® Encapsulated Viton®		
					16 = 213 Internal O-Ring	Z = Teflon® Encapsulated Silicone		

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.