

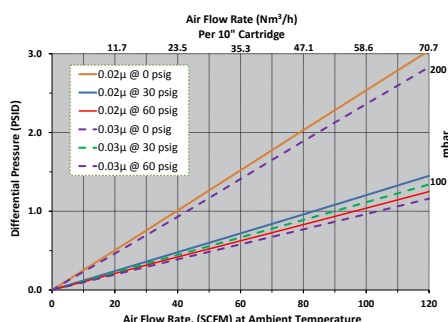
High Purity - Hydrophobic Polysulfone (PSH) Membrane

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.