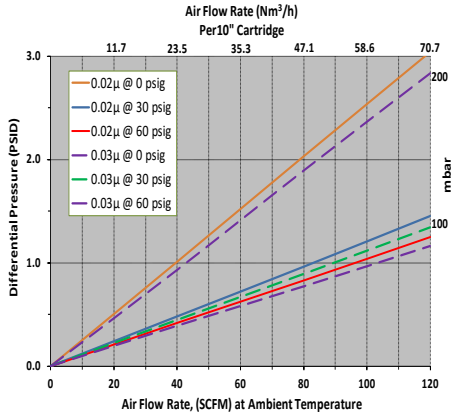
PharmBiologic Solutions, LLC
Advancing custom solutions

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

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

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

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

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		

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