GLOBAL FILTER LLC

Filter Data Sheet

High Purity – High Flow Polysulfone (PS) Membrane

Hydrophilic Polysulfone (PS) Membrane for Water and Aqueous Solutions

Features and Benefits

- Highly Asymmetric Polysulfone Membrane Media
- Absolute Rated at >99.9% Efficiency with Retention Ratings from 0.05 to 0.8 µm
- Superior Flow Rates and Long Service Life
- High Purity Polypropylene Hardware
- End Configurations to Fit Most Housings
- Rinse-up to 18 Megohm with a Minimum Throughput
- Pre-rinse Option Available
- Surface Area = 6.1 ft^2 (0.57 m^2) per 10" (25.4 cm)

Liquid Flow Specifications

Filter Grade (µm)	DI Water Flow per 1 psid (gpm/10" (25.4 cm) equivalent)
0.05	1.0 (3.8 lpm)
0.1	1.7 (6.4 lpm)
0.2	3.0 (11.4 lpm)
0.45	5.5 (20.8 lpm)
0.65	6.0 (22.7 lpm)
0.8	7.0 (26.5 lpm)

Typical Applications:

Deionized Water Systems
General-Use Water Filtration
Liquid Clarification
Recirculating Fluids
Chemical Filtration

Construction Materials

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

Sanitization/Sterilization

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

Chemicals: Cartridges are chemically compatible with most chemicals and sanitizing agents.

Note: Stainless insert option needed for all cartridges being hot water sanitized or steam sterized.

Dimensions

Length:
10 to 40 inches (25.4 to 101.6 cm) nominal
Outside Diameter:
2.75 inches (7.0 cm) nominal

Maximum Recommended Operating Conditions

Maximum 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

GHPS	Filter Grade (µm)	A	Length	C	End Cap Code	O-Rings/Gaskets	Adders
	0.05		10 (25.4 cm)		2 = DOE - Flat Gasket	B = Buna	I = Stainless Steel Insert
	0.1		20 (50.8 cm)		3 = 222 w/ Fin	E = EPDM	HP = Heavy Poly Core
	0.2		30 (76.2 cm)		4 = 222 w/ Flat Cap	S = Silicone	R = 18 Megohm Rinse
	0.45		40 (101.6 cm)		6 = 226 w/ Flat Cap	V = Viton	
	0.65				7 = 226 w/ Fin	T = Teflon Encapsulated Viton	
	0.8				16 = 213 Internal O-Ring		

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