



High Purity - Polysulfone (PS) Membrane

Hydrophilic Polysulfone Membrane for Water and Aqueous Solutions

Typical Applications:

- DEIONIZED WATER SYSTEMS
- GENERAL-USE WATER FILTRATION
- LIQUID CLARIFICATION
- RECIRCULATING FLUIDS
- CHEMICAL FILTRATION

Filter Data Sheet

- Highly asymmetric polysulfone membrane media
- Absolute rated at >99.9% efficiency with retention ratings from 0.05 to 1.2µm
- Superior flow rates and long service life
- High purity polypropylene hardware
- End configurations to fit most vessels
- Rinse-up to 18 megohm with a minimum throughput
- Pre-rinse option available
- Surface area = 6.1 ft.2 (0.57m2) per 10" (25.4cm)

Construction Materials

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

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.

Liquid Flow Specifications

Filter Grade (µm)	DI Water Flow per 1 PSID (gpm/10" (25.4 cm) equivalent)
0.05	1.1 (4.2 lpm)
0.1	1.9 (7.2 lpm)
0.2	3.3 (12.5 lpm)
0.45	6.0 (22.7 lpm)
0.65	6.6 (24.9 lpm)
0.8	7.7 (29.1 lpm)
1.2	8.4 (31.8 lpm)

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.

Ordering Information

GHPS	Pore Size	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® Endcapsulated Viton	
	0.8				16 = 213 Internal O-Ring		
	1.2						

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