

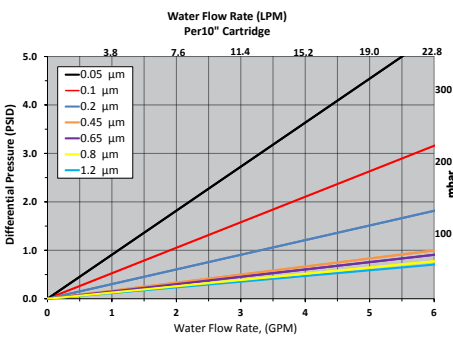


High Purity - Polysulfone (PS) Membrane
Hydrophilic Polysulfone Membrane for Water and Aqueous Solutions

Hydrophilic Polysulfone Membrane

Cartridges are an exceptional choice for ultra high purity water and aqueous fluid applications. GHPS series cartridges offer extremely high flowrates and service-life while filtering to 0.05-1.2µm. GHPS cartridges are constructed using high purity polypropylene support materials and hardware and assembled using the latest thermal-bonding equipment. This results in an exceptionally clean cartridge that rinses to 18 MΩ with minimal throughput. The Extended Area option (GHPSX) offers up to 40% more surface area. This additional area results in significant increases in flowrate and loading capacity in the same footprint.

Flow Rate vs Pressure Drop



*Data represents GHPS. For GHPSX option, multiply given flowrate by 1.4.

Typical Applications

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

Ordering Information

GHPS	Rating (µ)	A	Length	C	End Cap Style	O-Rings/Gaskets	-	Adders
GHPSX	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®		CS = 316ss Compression Spring
	0.65				7 = 226 w/ Fin	T = Teflon® Encapsulated Viton®		
	0.8				16 = 213 Internal O-Ring	Z = Teflon® Encapsulated Silicone		
	1.2							



Construction Materials

Membrane.....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.

Toxicity

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

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.

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.