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

Cartridges are an exceptional choice for ultra-high purity water and aqueous fluid applications. GHPS series cartridges offer extremely high flow rates 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 resists to 18 MQ with minimal throughput. The Extended Area option (GHPSX) offers up to 40% more surface area. This additional area results in significant increases in flow rate and loading capacity in the same footprint.

Flow Rate vs Pressure Drop

*Data represents GHPS. For GHPSX option, multiply given flow rate by 1.8.

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

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.

Ordering Information

<table>
<thead>
<tr>
<th>GHPSX</th>
<th>Rating (µ)</th>
<th>A</th>
<th>Length</th>
<th>C</th>
<th>End Cap Style</th>
<th>O-Rings/Gaskets</th>
<th>-</th>
<th>Adders</th>
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<tbody>
<tr>
<td>0.05</td>
<td>10” (25.4 cm)</td>
<td>2</td>
<td>DOE Flat Gasket</td>
<td>B</td>
<td>Buna</td>
<td>I = Stainless Steel Insert</td>
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<tr>
<td>0.1</td>
<td>20” (50.8 cm)</td>
<td>3</td>
<td>222 w/ Fin</td>
<td>E</td>
<td>EPDM</td>
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<tr>
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<td>Silicone</td>
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<tr>
<td>0.45</td>
<td>40” (101.6 cm)</td>
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<td>226 w/ Flat Cap</td>
<td>V</td>
<td>Viton®</td>
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<tr>
<td>0.65</td>
<td>226 w/ Fin</td>
<td>T</td>
<td>Teflon® Encapsulated Viton®</td>
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<tr>
<td>0.8</td>
<td>16 = 213 Internal O-Ring</td>
<td>Z</td>
<td>Teflon® Encapsulated Silicone</td>
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</table>

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.

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