MicroVantage™ WGAS Series
Water Grade Polyethersulfone Membrane Filter Cartridges

Request a Quote Today!

- Absolute retention ratings from 0.3 to 1.0 microns
- 6.0 square feet (0.56 m²) of media surface area per ten inch length for optimal performance
- Cost effective absolute filtration for less critical applications - not integrity tested
- 100% polypropylene construction offers wide range of chemical compatibility
- Rigid, molded cage protects pleated media and strengthens structural stability
- Manufactured in state-of-the-art white room environment for high purity
- Complies with Food & Drug Administration's CFR criteria for food & beverage contact
- Available in common end cap configurations to fit most filter housings
- Produced in standard lengths up to 40 inches

Applications
- RO Pre/Post Filtration
- DI Water
- Plating Solutions
- Specialty Chemicals
- Water & Wastewater
- Food & Beverage
- Bottled Water
- Microelectronics
- Process Water
- Cosmetics

Specifications & Operating Parameters

Pore Sizes 0.03, 0.1, 0.2, 0.45, 0.65, 1.0 microns absolute retention

Nominal Lengths 9.75” (24.7 cm), 10” (25.4 cm), 20” (50.8 cm), 30” (76.2 cm), 40” (101.6 cm)

Outside Diameter 2.67” (6.78 cm)

Inside Diameter 1.0” (2.54 cm)

Media Surface Area 6.0 sq.ft. (0.56 m²) per 10 inches filter length

Gaskets/O-rings Silicone, Buna N, EPR, Viton, Teflon Encapsulated Viton
(0-rings only)

Materials of Construction
- Filter Media: Asymmetric Polyethersulfone
- Outer Cage: Polypropylene
- Inner Core: Polypropylene
- End caps: Polypropylene

Maximum Operating Temperature 176°F ( 80°C)

Recommended Change-out Differential Pressure 35 psid (2.4 bar)

Maximum Differential (Collapse) Pressure 75 psid @ 70°F (5.2 bar @ 21°C), 40 psid @176°F (2.8 bar @ 80°C)

Sanitization and Sterilization
- Hot water at 175°F (80°C) at 5 psid for 30 minutes
- In-line steam at 257°F (125°C) @ 1 psid (0.7 bar) for 30 minutes
- Autoclavable at 257°F (125°C) for 30 minutes

FDA and USP Compliance
- All materials comply with the requirements of Food and Drug Administration Title 21 of The Code of Federal Regulations 174.5, 177.1520 and 177.1630. All components meet current USP Class VI biological tests for plastics

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Flow vs. Pressure Drop

This chart represents typical water flow per 10' cartridge length. The test fluid is water at ambient temperature. Extrapolation for multiple elements tends to be linear, but as flows increase the ΔP of the housing becomes more apparent.

Ordering Guide (Example: WGAS0.2-10S4S)

<table>
<thead>
<tr>
<th>WGAS</th>
<th>0.2 – 10</th>
<th>S4</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRODUCT CODE</td>
<td>MICRON</td>
<td>LENGTH</td>
<td>END CAP CONFIGURATION</td>
</tr>
<tr>
<td>WGAS</td>
<td>0.03</td>
<td>9.75&quot;</td>
<td>S1 = DOE</td>
</tr>
<tr>
<td></td>
<td>0.1</td>
<td>10&quot;</td>
<td>S3 = 222 w/ Fin End</td>
</tr>
<tr>
<td></td>
<td>0.2</td>
<td>19.75&quot;</td>
<td>S4 = 222 w/ Flat End</td>
</tr>
<tr>
<td></td>
<td>0.45</td>
<td>20&quot;</td>
<td>S5 = 226 w/ Fin End</td>
</tr>
<tr>
<td></td>
<td>0.65</td>
<td>29.25&quot;</td>
<td>S6 = 226 w/ Flat End</td>
</tr>
<tr>
<td></td>
<td>1.0</td>
<td>30&quot;</td>
<td>S7 = Internal O-ring with Recessed Plug</td>
</tr>
<tr>
<td></td>
<td></td>
<td>40&quot;</td>
<td>S9 = Internal O-ring on both ends</td>
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</tbody>
</table>

Filter Housings
Shelco manufactures a full line of filter housings. From our rugged single cartridge housings to our heavy duty multi-cartridge housings. Shelco is the perfect choice for your filtration solutions.