MicroVantage™ MPA Series
Absolute-Rated (99.98%) Pleated Polypropylene Filter Cartridges

Request a Quote Today!

• Absolute-Rated Beta 5000 (99.98%) retention efficiency
• 5.6 square feet (0.52 m2) of media surface area per 10” length
  - High throughput and particle retention
  - Optimal performance and value
• 100% polypropylene construction offers wide range of chemical compatibility
• Rigid, molded cage provides greater structural integrity
• Gradient, fixed pore structure increases dirt-holding capacity and resists unloading under high differential pressure
• Manufactured in state-of-the-art white room for high purity
• Complies with Food & Drug Administration’s CFR criteria for food & beverage contact
• Meets USP Class VI Biological Test for plastics
• Various end cap configurations available to fit existing housings
• Produced in continuous lengths up to 40 inches

Applications
- RO Prefilters
- Food & Beverage
- Process Water
- Bottled Water
- Plating Solutions
- Microelectronics
- Chemicals
- Paint/Inks
- Water & Wastewater
- Cosmetics

Specifications & Operating Parameters

| Pore Sizes | 0.2, 0.45, 1.0, 3.0, 5.0, 10.0, 20.0, 30.0, 40.0, 50.0 microns |
| 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 | 5.6 sq. ft. (0.52 m2) per ten inches in length |
| Gaskets/O-rings | Silicone, Buna N, EPR, Viton, Teflon Encapsulated Viton (o-rings only) |
| Materials of Construction | Filter Media: Polypropylene |
| | Outer Cage / Core / 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 (0.07 bar) for 30 minutes
- Autoclavable at 257°F (125°C) for 30 minutes

FDA and USP Compliance
All filters are manufactured of virgin polypropylene materials. All materials comply with FDA requirements for food contact per CFR Title 21 174.5, 177.1520 and 177.1630. All Components meet USP Class VI Plastics biological reactivity tests.

www.commercialfiltrationsupply.com
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.

**Filter Housings**

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 $\Delta P$ of the housing becomes more apparent.

**Flow vs. Pressure Drop**

<table>
<thead>
<tr>
<th>BAR</th>
<th>PSI</th>
<th>0.2 µm</th>
<th>0.45 µm</th>
<th>1.0 µm</th>
<th>3.0 µm</th>
<th>5.0 µm</th>
<th>10.0 µm</th>
<th>20.0 µm, 30.0 µm, 40.0, 50.0 µm</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0.20</td>
<td>0.45</td>
<td>1.00</td>
<td>3.00</td>
<td>5.00</td>
<td>10.00</td>
<td>20.00, 30.0, 40.0, 50.0</td>
</tr>
<tr>
<td>0.07</td>
<td>1</td>
<td>0.10</td>
<td>0.30</td>
<td>0.65</td>
<td>2.5</td>
<td>4.0</td>
<td>8.0</td>
<td>17.0, 26.0, 34.0, 42.0</td>
</tr>
<tr>
<td>0.14</td>
<td>2</td>
<td>0.05</td>
<td>0.20</td>
<td>0.35</td>
<td>2.0</td>
<td>3.0</td>
<td>7.0</td>
<td>15.0, 21.0, 28.0, 36.0</td>
</tr>
<tr>
<td>0.21</td>
<td>3</td>
<td>0.20</td>
<td>0.20</td>
<td>0.35</td>
<td>2.0</td>
<td>3.0</td>
<td>7.0</td>
<td>15.0, 21.0, 28.0, 36.0</td>
</tr>
<tr>
<td>0.28</td>
<td>4</td>
<td>0.20</td>
<td>0.20</td>
<td>0.35</td>
<td>2.0</td>
<td>3.0</td>
<td>7.0</td>
<td>15.0, 21.0, 28.0, 36.0</td>
</tr>
</tbody>
</table>

**GALLONS PER MINUTE**

For pricing and information please call Commercial Filtration Supply at (855)-236-0467

Visit us Online at: www.commercialfiltrationsupply.com for more filtration products.