MicroVantage™ MAN Series
Nylon 66 Membrane Filter Cartridges

Request a Quote Today!

- Absolute retention ratings from 0.1 to 0.65 microns
- Nylon 66 membranes provide electropositive charge to enhance particle removal through electrokinetic adsorption
- 7.2 square feet (0.67 m²) of media surface area per ten inch length for optimal performance
- MAN grade cartridges are flushed and dried to ensure reliable performance in critical applications
- Rigid, molded polypropylene cage protects pleated media and strengthens structural stability
- Manufactured in a state-of-the-art white room and Class 10,000 clean room for high purity
- Complies with Food & Drug Administration’s CFR criteria for food & beverage contact
- Meets USP Class VI Biological Test for plastics.
- Available in standard lengths and end cap configurations to fit most filter housings
- Produced up to 40 inches in length (10 inch modules)

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

Specifications & Operating Parameters

Pore Sizes 0.1, 0.2, 0.45, 0.65 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 7.2 sq.ft. (0.67 m²) per 10 inches filter length

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 filters are manufactured of virgin polypropylene materials with no additives or other manufacturing agents. All polypropylene 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

Specifications & Operating Parameters

Materials of Construction
- Filter Media: Nylon 66
- Outer Cage: Polypropylene
- Inner Core: Polypropylene
- End caps: Polypropylene

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

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Flow vs. Pressure Drop

This chart represents the typical water flow per 10" cartridge length. Cartridges are tested in water at ambient temperature. Data may be extrapolated for multiple lengths, but as flow rate increases, $\Delta P$ of the housing becomes more apparent.

Ordering Guide (Example: MAN0.2-10S4S-E)

<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>MICRON</th>
<th>LENGTH</th>
<th>END CAP CONFIGURATION</th>
<th>GASKET/O-RING</th>
<th>GRADE</th>
<th>OPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN</td>
<td>0.1</td>
<td>9.75&quot;</td>
<td>S1 = DOE</td>
<td>B = Buna N</td>
<td>G = General</td>
<td>HT = High Temperature*</td>
</tr>
<tr>
<td></td>
<td>0.2</td>
<td>10&quot;</td>
<td>S3 = 222 w/ Fin End</td>
<td>E = EPDM</td>
<td>B = Beverage</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.45</td>
<td>19.75&quot;</td>
<td>S4 = 222 w/ Flat End</td>
<td>S = Silicone</td>
<td>E = Electronic</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.65</td>
<td>20&quot;</td>
<td>S5 = 226 w/ Fin End</td>
<td>V = Viton</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>29.25&quot;</td>
<td>S6 = 226 w/ Flat End</td>
<td>T = Teflon encapsulated</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>30&quot;</td>
<td>S7 = Internal O-ring with Recessed Plug</td>
<td>Viton (O-ring only)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>40&quot;</td>
<td>S9 = Internal O-ring on both ends</td>
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<td></td>
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</tbody>
</table>

* High Temperature construction (cage, core, end caps): Maximum Temperature 200°F (93.3°C) - Available only in 222 or 226 with Fin or Flat end caps.

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.

Visit us Online at: [www.commercialfiltrationsupply.com](http://www.commercialfiltrationsupply.com) for more filtration products.