The Omni-Clear CV Series was developed for the filtration of process fluids that require a high degree of particle retention and/or a constant bacterial barrier for effective sterilization. Hydrophilic asymmetric polyethersulfone membrane ensures excellent flow rates, broad chemical compatibility, low protein binding, low extractability, high mechanical strength and temperature resistance in a variety of applications for the biopharmaceutical, microelectronics, chemical, food and beverage industries. The Omni-Clear CV Series meets USP Biological Reactivity Test, in vivo for class VI-121°C plastics.

Benefits

- High surface area membrane offers excellent life and flux rates, while providing absolute-rated filtration.
- Absolute-rated membrane provides reliable, consistent and repeatable filtrate quality.
- Low pressure drops yield higher flow rates and reduced processing time.
- Non fiber-shedding Polypropylene support materials eliminate fiber migration.
- Pleat design for greater surface area, ensuring longer service life, fewer change outs and reduced operating costs.
- Thermally bonded construction without the use of adhesives or binders, resulting in lower extractables.
- Low hold-up volumes.
- High strength design allowing for extended use and multi autoclave cycles.

Applications

- Liquid Clarification
- Chemical Filtration
- General-Use Water Filtration
- Deionized Water Systems
# aspire® Omni-Clear CV Series

## Pleated Polyethersulfone Hydrophilic Membrane Cartridge

### Performance Specifications

<table>
<thead>
<tr>
<th>Absolute Retention</th>
<th>Rating</th>
<th>Differential Pressure Forward</th>
<th>Reverse</th>
<th>Maximum Operating Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.04µm, 0.1µm, 0.2µm, 0.45µm, 0.65µm, 0.8µm, 1.2µm</td>
<td>75 psid (5.5 bar) @ 75°F (24°C)</td>
<td>40 psid (2.8 bar) @ 180°F (82°C)</td>
<td>50 psid (3.4 bar)</td>
<td>180°F (82°C) Continuous Duty</td>
</tr>
</tbody>
</table>

### Materials of Construction

- **Filter Media**: Polyethersulfone
- **Support Material**: Polypropylene
- **Hardware**: Polypropylene
- **Cage Core**: Polypropylene
- **Internal Support Ring**: Stainless Steel
- **Sealing**: Thermal Bond
- **Seals**: Buna-N, Fluorocarbon, EPDM, FEP Encapsulated Fluorocarbon, Silicone

### Toxicity

Cartridge material meet USP Class VI and CFR 21 for food and beverage contact.

### Sterilization

Cartridges can be sterilized via steam or Autoclave: 20 times at 275°F (135°C). Cartridges may be sanitized in place with common oxidizing agents. Contact factory for chemical compatibility.

### Cartridge Ordering Information

<table>
<thead>
<tr>
<th>Media</th>
<th>Micron Rating</th>
<th>Series</th>
<th>Cage Style</th>
<th>Nominal Length</th>
<th>Cartridge Style</th>
<th>Gasket or O-Ring Material</th>
<th>Utilization</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>002</td>
<td>CV</td>
<td>B</td>
<td>7</td>
<td>01 ERP</td>
<td>Non-Steam Sterilizable</td>
<td>N</td>
</tr>
<tr>
<td>S = Polyethersulfone Membrane</td>
<td>004 = 0.04µm</td>
<td>S = Standard</td>
<td>Blank = Extruded</td>
<td>A = 10”</td>
<td>1 = DOE, 9 ¾”</td>
<td>Silicone</td>
<td>S</td>
</tr>
<tr>
<td></td>
<td>001 = 0.1µm</td>
<td></td>
<td>H = Molded</td>
<td>B = 20”</td>
<td>2 = DOE, 10”</td>
<td>Nitrile</td>
<td></td>
</tr>
<tr>
<td></td>
<td>002 = 0.2µm</td>
<td></td>
<td></td>
<td>C = 30”</td>
<td>3 = 222 O-Ring/Flat</td>
<td>Teflon®</td>
<td></td>
</tr>
<tr>
<td></td>
<td>004 = 0.45µm</td>
<td></td>
<td></td>
<td>D = 40”</td>
<td>7 = 226 O-Ring/Fin</td>
<td>Viton®</td>
<td></td>
</tr>
<tr>
<td></td>
<td>006 = 0.65µm</td>
<td></td>
<td></td>
<td></td>
<td>7A = 222 O-Ring/Flat</td>
<td>Expanded Teflon®</td>
<td></td>
</tr>
<tr>
<td></td>
<td>008 = 0.8µm</td>
<td></td>
<td></td>
<td></td>
<td>8 = 222 O-Ring/Fin</td>
<td>*Non FDA</td>
<td></td>
</tr>
<tr>
<td></td>
<td>012 = 1.2µm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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