High Purity Pleated Microglass Cartridges

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High Purity - FG
Pleated Microglass Cartridge

Filtration Group BV offer an economical, absolute rated, filtration solution for both liquids and gases. They offer excellent flow rates and long service life with an exceptional ability to retain both deformable and non-deformable particles.

FG cartridges are constructed with absolute rated borosilicate microglass media that offers high dirt-loading capacities. The natural positive charge of the glass also aids in the retention of negatively charged particulates such as bacteria, endotoxins and a variety of coloidal materials. FG cartridges are offered in both absolute (to 99.98%) and nominal (90%) retention efficiencies.

Construction Materials

- Filtration Media - FDA borosilicate microglass with acrylic binder.
- Support Media - Spun-bonded polyester laminated on both upstream and downstream sides.
- End Caps - Polypropylene
- Center Core - Glass-reinforced Polypropylene
- Outer Support Cage - Polypropylene
- O-Rings/Gaskets - Buna, EPDM, Silicone, Viton®, Teflon® Encapsulated Viton®

Dimensions

- Length: 10 to 40 inches (25.4 to 101.6 cm) nominal
- Outside Diameter: 2.75 inches (7.0 cm) nominal

Maximum Recommended Operating Conditions

- Change Out: ΔP 35 PSI
- Temperature: 200°F (93°C)

Note: Optional high temperature construction available featuring stainless steel core (226°F).

Typical Applications

- Membrane
- Pre-Filtration
- Sterile Air
- PreFilteration
- Hydrocarbons

Toxicity

All polypropylene components meet the specifications for biological safety per USP Class VI – 121°C for plastics.

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 chemical cleaning and sanitizing agents.

Note: Stainless steel end cap insert option needed for all cartridges being hot water sanitized or steam sterilized.

Ordering Information

<table>
<thead>
<tr>
<th>FG</th>
<th>Rating (μ)</th>
<th>Retention</th>
<th>Length</th>
<th>C</th>
<th>End Cap Style</th>
<th>O-Rings/Gaskets</th>
<th>-</th>
<th>Adders</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.2</td>
<td>A = Absolute</td>
<td>10&quot; (25.4 cm)</td>
<td></td>
<td>2</td>
<td>DOE Flat Gasket</td>
<td>B = Buna</td>
<td>I = Stainless Steel Insert</td>
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<tr>
<td>0.45</td>
<td>N = Nominal</td>
<td>20&quot; (50.8 cm)</td>
<td></td>
<td>3</td>
<td>222 w/ Fin</td>
<td>E = EPDM</td>
<td>SS = Stainless Steel Core</td>
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</tr>
<tr>
<td>1.0</td>
<td></td>
<td>30&quot; (76.2 cm)</td>
<td></td>
<td>4</td>
<td>222 w/ Flat Cap</td>
<td>S = Silicone</td>
<td>CS = 316ss Compression Spring</td>
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</tr>
<tr>
<td>2.0</td>
<td></td>
<td>40&quot; (101.6 cm)</td>
<td></td>
<td>5</td>
<td>222 w/ Spring</td>
<td>V = Viton®</td>
<td></td>
<td></td>
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<tr>
<td>5.0</td>
<td></td>
<td></td>
<td></td>
<td>6</td>
<td>226 w/ Flat Cap</td>
<td>T = Teflon® Encapsulated Viton®</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.0</td>
<td></td>
<td></td>
<td></td>
<td>7</td>
<td>226 w/ Fin</td>
<td>Z = Teflon® Encapsulated Silicone</td>
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</tr>
<tr>
<td>20.0</td>
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<td></td>
<td></td>
<td>8</td>
<td>226 w/ Spring</td>
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</tr>
<tr>
<td>40.0</td>
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<td></td>
<td></td>
<td>16</td>
<td>213 Internal O-Ring</td>
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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.