**Product Specifications**

**Media:** Expanded PTFE Membrane  
**Inner core, end caps, cage:** Polypropylene  
**Support layers:** Polypropylene  
**Gaskets/O-Rings:** Buna-N, EPDM, Silicone, Teflon Encapsulated Viton (O-Rings only), Teflon (gaskets), Viton  
**Micron ratings:** 0.05, 0.1, 0.2, 0.45, 1.0 µm

**Dimensions**

**Nominal lengths:**  
5” 9.75” 10” 20” 30” 40”  
12.7 24.8 25.4 50.8 76.2 101.6 cm

**Outside diameter:** 2.7” (6.9 cm)  
**Inside diameter:** 1.0” (2.54 cm)  
**Surface area:** 8.5 ft² (0.79 m²) per 10” element

**Operating Parameters**

**Maximum operating temperature:**  
203°F (95°C)  
**Maximum differential pressure:**  
80 psid @ 70°F (5.5 bar @ 21°C)  
40 psid @ 160°F (2.8 bar @ 71°C)  
**Maximum reverse differential pressure:**  
40 psid @ 70°F (2.8 bar @ 21°C)  
**Recommended change-out pressure:**  
35 psid (2.4 bar)

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**TefTEC™ Series Filter Cartridges**

*Absolute Rated PTFE Membrane Filter Cartridges*

TefTEC cartridge filters are constructed with naturally hydrophobic PTFE membrane and polypropylene support layers and components. The HIMA retentive PTFE membrane offers superior hydrophobicity and water intrusion resistance compared to PVDF and polypropylene membranes, and the cartridge construction offers a cost-effective alternative to all-fluorocarbon filters. TefTEC filters are ideal for gas/vent applications and the filtration of aggressive chemicals and solvents.

**FEATURES & BENEFITS**

- High surface area, single-layer construction provides superior flow rates and minimizes filtration system size
- 100% Flushed with 18 MΩ-cm DI water and integrity tested
- Filters are manufactured, flushed, tested and packaged in an ISO Class 7 Cleanroom Environment
- Each filter element stamped with pore size, lot and serial number for identification and traceability
- Complete qualification guide available
- Available prewet for use with aqueous based chemicals

**CERTIFICATIONS**

- USP Class VI: Meets USP Class VI Biological Test for Plastics
- FDA Listed Materials: All materials comply with FDA Title 21 of the Code of Federal Regulations Sections 174.5, 177.1520, and 177.1550 as applicable for food and beverage contact.

**TYPICAL APPLICATIONS**

- Aggressive chemicals
- Strong acids/bases
- Solvents
- Tank Vents
- Compressed gases
- Photoresists
- Hot DI water
- Pharmaceutical Intermediates
- Fermentation air

**PERFORMANCE SPECIFICATIONS**

- Steam/Autoclave: Cartridges will withstand at least 100 steam/autoclave thirty-minute cycles @ 275°F (135°C)
**TEFTEC NOMENCLATURE INFORMATION**

<table>
<thead>
<tr>
<th>Filter Type</th>
<th>Retention Rating (microns)</th>
<th>Nominal Length (in)</th>
<th>End Configuration</th>
<th>Gasket or O-Ring</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>TefTEC Series</td>
<td>0.05 0.45</td>
<td>–5 –20</td>
<td>P</td>
<td>Double Open End</td>
<td>B</td>
</tr>
<tr>
<td></td>
<td>0.1 1</td>
<td>–9.75* –30</td>
<td>P2</td>
<td>226/Flat Single Open End</td>
<td>E</td>
</tr>
<tr>
<td></td>
<td>0.2</td>
<td>–10 –40</td>
<td>P3</td>
<td>226/Flat Single Open End</td>
<td>S</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>P7</td>
<td>226/Fin Single Open End</td>
<td>T</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>P8</td>
<td>226/Fin Single Open End</td>
<td>T</td>
</tr>
<tr>
<td>AM</td>
<td>Single Open End, Internal O-Ring</td>
<td></td>
<td></td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>NPC</td>
<td>Double Open End, Internal O-Ring</td>
<td></td>
<td></td>
<td></td>
<td>S</td>
</tr>
</tbody>
</table>

Example: TefTEC 0.1–20P2S–W

*Available only for DOE (P) configuration

**TEFTEC FLOW RATE**

**Typical Flow Rate Clean Water at Ambient Temperature**

![Flow Rate Graph](image)

For liquids other than water, multiply pressure drop by the fluid viscosity in centipoise

**TEFTEC AIR FLOW RATE**

**Air Flow Rate**

![Air Flow Rate Graph](image)

Test conditions: System pressure at <10 psig (vent), 65°F (18°C), outlet open to atmosphere

**INTEGRITY TEST SPECIFICATIONS**

*Air Diffusion per 10-inch cartridge wet with 60/40 IPA/water. Contact Graver Technologies for specific method.*

<table>
<thead>
<tr>
<th>Pore Size</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.05 μm</td>
<td>≤ 50 cc/min @ 22 psig (1.5 bar)</td>
</tr>
<tr>
<td>0.1 μm</td>
<td>≤ 50 cc/min @ 18 psig (1.2 bar)</td>
</tr>
<tr>
<td>0.2 μm</td>
<td>≤ 35 cc/min @ 12 psig (0.8 bar)</td>
</tr>
<tr>
<td>0.45 μm</td>
<td>≤ 15 cc/min @ 5 psig (0.34 bar)</td>
</tr>
<tr>
<td>1.0 μm</td>
<td>≤ 15 cc/min @ 3 psig (0.2 bar)</td>
</tr>
</tbody>
</table>

**FOR MORE INFORMATION**

Customer Service/Technical Support: 1-888-353-0303


info@gravertech.com | www.gravertech.com

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