Features and Benefits
Superior Polyethersulfone Membrane Yields Maximum Filtration Results

- High surface area design provides excellent flow rates and life while maintaining high particle removal efficiency.
- Rinsed with 18 meqohm-cm UHP water for high purity.
- Excellent resistance to most sanitizing agents such as hot water, concentrated hydrogen peroxide and active chlorine compounds.
- Low pressure drops improve filtration efficiency and extend filter life.
- Spunbonded polypropylene support materials eliminate sites for potential shedding and increased particle counts.

Parker’s TQM System Assures Consistent Performance and Reliable Filtration

- Strict quality control measures include rigorous testing for rinse up, shedding, flow rate and extractable levels.
- Integrity-tested and testable in situ.
- Thermally welded, eliminating adhesive extractables.
- Biosafe in accordance with USP Class VI-121° Plastics Tests.
- Specifically designed to ensure cleanliness.
- All materials of construction are FDA listed as acceptable for potable and edible liquid contact according to CFR Title 21.
Specifications

Materials of Construction:
- Membrane: hydrophilic polyethersulfone
- Membrane Support/Drainage: polypropylene
- Core/Cage: polypropylene
- End Fittings: polyester
- O-Ring Material: various
- Sealing Method: thermal welding

Dimensions:
- Diameter: 2.70 in (6.8 cm)
- Lengths: 10-40 in (25-102 cm)

Surface Area (10 in cartridge):
- Minimum 6.5 ft² (0.6 m²)

Endotoxins:
- < 0.25 EU/ml

Integrity Test:
- Bubble Point (in UHP water):
  - 0.1µm ≥ 70 psig (4.8 bar)
  - 0.2µm ≥ 45 psig (3.1 bar)
  - 0.45µm ≥ 24 psig (1.7 bar)
  - 0.65µm ≥ 16 psig (1.1 bar)

- Diffusion Rate (10 in cartridge):
  - 0.1µm ≤ 50cc/min at 50 psig (3.4 bar)
  - 0.2µm ≤ 50cc/min at 30 psig (2.1 bar)
  - 0.45µm ≤ 50cc/min at 15 psig (1.0 bar)
  - 0.65µm ≤ 50cc/min at 7 psig (0.5 bar)

Recommended Operating Conditions:
- Maximum Temperature:
  - 176°F (80°C) @ 30 ΔP (2.1 bar)
- Maximum Differential Pressure:
  - Forward: 70 psi (4.8 bar) @ 77°F (25°C)
  - Reverse: 50 psi (3.4 bar) @ 77°F (25°C)

Sterilization/Sanitization Methods:
- Hot Water: 190°F (88°C)
- Autoclave: 250°F (121°C) for 30 minutes at 15 psi (1.0 bar)
- In situ Steam: 284°F (140°C) for 60 minutes at 15 psi (1.0 bar)
- Chlorine
- Hydrogen Peroxide
- Sodium Hypochlorite
- Sanitizing Agents (see Materials Selection Guide)

Ordering Information

<table>
<thead>
<tr>
<th>PS</th>
<th>F</th>
<th>B</th>
<th>10</th>
<th>E</th>
<th>TC</th>
<th>U</th>
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<tbody>
<tr>
<td>Cartridge Code</td>
<td>Pore Size (µm)</td>
<td>Diameter (in)</td>
<td>Length (in)</td>
<td>O-Ring Material</td>
<td>End Cap Configuration</td>
<td>Grade</td>
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<td>PS = Polypropylene/ Polyethersulfone</td>
<td>S = 0.1</td>
<td>B = 2.7</td>
<td>10 = 10</td>
<td>B = Buna N</td>
<td>SC = 2-226/Fat</td>
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Flow Factors:

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<th>Pore Size (µm)</th>
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<th>LPM/1 Bar</th>
<th>PSID/1 GPM</th>
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* Trademark of E.I. du Pont de Nemours & Co.
** Consult Process Filtration Division for gas flow data.