AVASAN™ Filter Cartridges

High Purity Melt Blown Depth Cartridges

Avasan™ (AVS) cartridges are manufactured with a proprietary melt blown manufacturing process using a specially formulated polypropylene polymer. This formulation provides a uniquely graded density filter cartridge designed for high purity applications. The fiber matrix of the cartridge has been engineered to provide structural integrity throughout the long service life of the cartridge and the finish-free construction provides optimum fluid purity and eliminates foaming. Avasan’s inherent fluid compatibility properties plus graded density make it the economical filter choice for high clarity requirements.

Benefits

- Continuous bonding of fibers throughout the filter matrix ensures non-fiber releasing construction
- Superior inter-layer bonding provides true three dimensional filtration and a construction that does not compress with increasing pressure
- Pure polypropylene construction
- Finish-free construction provides optimum fluid purity and eliminates foaming
- Graded density construction provides built-in prefiltration and longer life
- All materials biosafe in accordance with USP Class VI-121°C Plastic Test
- All materials listed as acceptable for potable and edible contact according to CFR Title 21
- Parker Process Filtration Division is an ISO9000:2000 Certified Division

Applications

- DI Water
- RO Prefiltration
- Potable Water
- Plating Solutions
- Chemical Processing Fluids

Parker

ENGINEERING YOUR SUCCESS.
AVASAN™ Filter Cartridges

Specifications

Materials of Construction:
- Filter Medium
  100% melt blown polypropylene
- End Caps/Adapters (optional)
  Various; refer to Ordering Information

Seal Options
- Various; refer to Ordering Information

- All materials of construction are
  FDA listed as acceptable
  for potable and edible liquid contact
  according to CFR Title 21.
- Pending Certifications:
  NSF - Materials only

Maximum Recommended Operating Conditions:
- Temperature:
  @ 50 psid (3.45 bar): 80°F (27°C)
  @ 25 psid (1.72 bar): 140°F (60°C)
- Flow Rate:
  5 gpm (18.9 lpm) per 10' length
- Recommended Maximum:
  Change Out ΔP: 35 psi (2.4 bar)

Dimensions (Nominal):
- 1-1/16 in. (27mm) ID x 2-7/16 in. (62mm) OD (max.)
- 4, 10, 20, 30, and 40 in. continuous nominal lengths

Nominal Filtration Ratings (90%):
- 1µm, 3µm, 5µm, 10µm, 20µm, 30µm, 50µm and 75µm

Ordering Information

<table>
<thead>
<tr>
<th>Cartridge Code</th>
<th>Micrometer Rating (µm)</th>
<th>Filter Medium</th>
<th>Nominal Length (in)</th>
<th>End Cap Configuration</th>
<th>Seal Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVS</td>
<td>1</td>
<td>Polypropylene</td>
<td>4</td>
<td>None = DOE (w/o gaskets)</td>
<td>None = Omit</td>
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<tr>
<td>AVS</td>
<td>3</td>
<td></td>
<td>9.75 = 9.75</td>
<td>DO = Double open end (DOE)</td>
<td>P = Poly Foam Gaskets</td>
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<td>AVS</td>
<td>5</td>
<td></td>
<td>10 = 10</td>
<td>LL = 120 O-Ring both ends**</td>
<td>w/Collars (DO only)</td>
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<tr>
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<td>19.5 = 19.5</td>
<td>LR = 120 O-Ring/Recessed**</td>
<td>E = EPR</td>
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<td>20 = 20</td>
<td>OB = Std. Open End/Polypro</td>
<td>N = Buna-N</td>
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<td>29.25 = 29.25</td>
<td>PR = 213 O-Ring/Recessed**</td>
<td>S = Silicone (O-Ring only)</td>
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<td>30 = 30</td>
<td>SC = 226 O-Ring/Flat</td>
<td>T = PFA Encapsulated</td>
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<td>40 = 40</td>
<td>SF = 226 O-Ring/Fin</td>
<td>Viton* (222, 226)</td>
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</tbody>
</table>

Dimensions (Nominal):
- 1-1/16 in. (27mm) ID x 2-7/16 in. (62mm) OD (max.)
- 4, 10, 20, 30, and 40 in. continuous nominal lengths

Nominal Filtration Ratings (90%):
- 1µm, 3µm, 5µm, 10µm, 20µm, 30µm, 50µm and 75µm

Flow rate is per 10" cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipose.

Specifications are subject to change without notification.
*Viton is a registered trademark of E.I. DuPont de Nemours & Co., Inc.