Fulflo® SWC Filter Cartridges

Economical Filtration Solutions With String Wound Depth Cartridges

Parker Process Filtration’s SWC Filter cartridge offers a wide range of fibers and core materials. Roving is wound onto a center core for strength. The diagonal pattern of the media forms a tight, interlocking weave. Parker Process Filtration has one of the world’s largest manufacturing plants for wound cartridges, offering superior quality along with technical, engineering and marketing support.

Nominal removal ratings from 1µm to 100µm are available.

Benefits

- SWC’s provide excellent compatibility with a variety of organic solvents and petroleum products.
- Optional core covers available to assure fiber migration control.
- Multiple length cartridges minimize change out time, eliminate spacers and are available to fit competitive filter vessels.
- Cotton and polypropylene materials are FDA listed as acceptable for potable and edible liquid contact according to CFR Title 21.
- Continuous strand roving geometry provides performance consistency.
- Extended center core option eliminates the need for cartridge guides in competitive and Fulflo multicartridge vessels.
- One piece extended length center cores are available in tinned steel, 316 stainless steel and 304 stainless steel.
- A special snap-in extender is available for polypropylene cores.
- FDA grade polypropylene (DOE only) certified to ANSI/NSF61 standard for contact with drinking water components.

Applications

- Prefilter for R.O. Membranes
- Water
- Alkalies
- Dilute Acids & Alkalies
- Organic Acids & Solvents
- Potable Liquids
- Petroleum Oils
- Mineral Acids
Fulflo® SWC Filter Cartridges

Specifications

Materials of Construction:
- Polypropylene
- Cotton

Maximum Recommended Operating Conditions:
- Temperature:
  - Polypropylene: 200°F (93°C) with tinned steel or stainless steel cores;
  - 120°F (49°C) with polypropylene cores;
- Cotton:
  - 250°F (121°C) with tinned steel or stainless steel cores;
  - 120°F (49°C) with polypropylene cores.

Change Out ∆P: 30 psi (2.1 bar)

ΔP @ Ambient Temperature:
- 60 psi (4.1 bar)

Flow Rate: 5 gpm (18.9 lpm) per 10 in length

Nominal Removal Ratings:
- 90% efficiency from 1µm to 100µm

Dimensions:
- 1 in ID x 2-3/8 in OD
- 10, 20, 30 and 40 in lengths

Flow Rate and Pressure Drop Formulas

Flow Rate (gpm) = Clean DP x Length Factor

Viscosity x Flow Factor

Clean DP = Flow Rate x Viscosity x Flow Factor

Length Factor

Notes:
1. Clean ΔP is PSI differential at start.
2. Viscosity is centistokes. Use Conversion Tables for other units.
3. Flow Factor is ΔP/GPM at 1 cks for 10 in (or single).
4. Length Factors convert flow or ΔP from 10 in (single length) to required cartridge length.

Ordering Information

<table>
<thead>
<tr>
<th>SWC</th>
<th>Cartridge Code</th>
<th>Micron Rating (nominal)</th>
<th>Fiber Type</th>
<th>Nominal Length (in)</th>
<th>Core Material</th>
<th>Core Cover Material</th>
<th>Core Extender</th>
<th>Packaging Options</th>
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</thead>
<tbody>
<tr>
<td>SWC = String Wound Cartridge</td>
<td></td>
<td></td>
<td>C = Cotton (FDA)</td>
<td>9-4 = 9-7/8</td>
<td>No Symbol = Tinned Steel</td>
<td>No Symbol = No Cover</td>
<td>No Symbol = None</td>
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<td>L = Polypropylene (utility grade)</td>
<td>10 =10</td>
<td>A = Polypropylene</td>
<td>V = Nonwoven Polyester</td>
<td>OB = Std. Open End/Polypipe</td>
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<td>M = Polypropylene (FDA Grade)</td>
<td>14 = 19-1/2</td>
<td>G = 304 Stainless Steel</td>
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<td>spring closed end</td>
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<td></td>
<td>T = Polypropylene (industrial grade)</td>
<td>20 = 20</td>
<td>S = 316 Stainless Steel</td>
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Specifications are subject to change without notification.

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