**Fulflo® MegaFlow™ Filter Cartridges**

Pleated cartridges for high-flow capacity

Parker’s Fulflo® MegaFlow™ cartridges are a cost effective alternative to wound and other 2½ in. OD style filter cartridges in high flow applications, such as reverse osmosis pre-filtration, where nominal efficiency is sufficient. Each MegaFlow cartridge can handle flow rates up to 175gpm (662lpm), which reduces the number of cartridges required and allows for smaller housings. Each 6 inch (152 mm) diameter MegaFlow cartridge has flow capacity equal to 8 standard 2½ in. OD X 40 in. long cartridges. Positive O-ring seals and a built-in handle make cartridge installation reliable, fast & easy. MegaFlow cartridges are available in either pleated polypropylene or cellulose media with nominal ratings of 0.5, 1, 5 & 10 micron.

**Benefits**

- High-flow capacity means fewer cartridges & change-outs which reduces labor costs
- High-flow capacity allows for smaller housings and less capital expenditure
- Built in handle makes change fast, easy and safe
- O-ring seal assures filtration integrity
- Choice of polypropylene or cellulose media allows use in both aqueous and non-aqueous fluid applications
- Thermally bonded polypropylene and phenolic resin bonded cellulose filter media prevent particle bleed through and unloading that commonly occurs with wound cartridges
- High surface area pleated design provides lower pressure drop and longer service life
- All cartridges constructed with polypropylene are FDA listed as acceptable for potable and edible contact according to CFR Title 21
- Horizontal and vertical housings are available for flow rates up to 3,325gpm (12,586 lpm)
- ISO 9001 registered company

**Applications**

- Potable Water
- Waste Water
- Reverse Osmosis Pre-Filtration
- Lubricating Oil
- Coolants

Contact Information

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# Fulflo® MegaFlow Filter Cartridges

## Specifications

### Materials of Construction

**Media**
- Polypropylene microfiber (P Code);
- Cellulose with phenolic binder (C Code)

**Support Layers**
- Polypropylene (P Code);
- None (C Code)

**End caps**
- Glass filled polypropylene

**O-Rings**
- Buna-N, EPR, silicone, fluoroelastomer

### Recommended Operating Conditions

**Change out differential pressure**
- 35psid (2.4bar)

**Maximum flow rate**
- 175gpm (662 lpm)

**Maximum temperature**
- 200°F (93°C)

**Maximum differential pressure**
- 150psid (10bar)

### Nominal Filtration Ratings

(90%) 0.5, 1, 5 and 10 μm

### Dimensions

- 6 in. (152 mm) OD, 3.5 in (89 mm) ID,
- 40 in. (1016 mm) long

### Surface Area

- 55-60 ft² (5.1-5.6m²)

## Ordering Information

### Cartridge Code

<table>
<thead>
<tr>
<th>Cartridge Code</th>
<th>Nominal Rating</th>
<th>Media</th>
<th>Removal Rating (μm)</th>
<th>Flow Factor*</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCNP005</td>
<td>0.5</td>
<td>Polypropylene 0.5</td>
<td>1 2 5 10</td>
<td>0.003 (0.06)</td>
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<tr>
<td>MCNP010</td>
<td>1</td>
<td>Polypropylene 1</td>
<td>3 7 10 30</td>
<td>0.0007 (0.014)</td>
</tr>
<tr>
<td>MCNP050</td>
<td>5</td>
<td>Polypropylene 5</td>
<td>10 20 30 50</td>
<td>0.0004 (0.008)</td>
</tr>
<tr>
<td>MCNP100</td>
<td>10</td>
<td>Polypropylene 10</td>
<td>30 50 60 90</td>
<td>0.0003 (0.006)</td>
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<tr>
<td>MCNC005</td>
<td>0.5</td>
<td>Cellulose 0.5</td>
<td>1 2 3 10</td>
<td>0.0002 (0.03)</td>
</tr>
<tr>
<td>MCNC010</td>
<td>1</td>
<td>Cellulose 1</td>
<td>2 3 5 20</td>
<td>0.0002 (0.03)</td>
</tr>
<tr>
<td>MCNC050</td>
<td>5</td>
<td>Cellulose 5</td>
<td>8 10 15 85</td>
<td>0.0001 (0.002)</td>
</tr>
<tr>
<td>MCNC100</td>
<td>10</td>
<td>Cellulose 10</td>
<td>12 15 30 100</td>
<td>0.00005 (0.0009)</td>
</tr>
</tbody>
</table>

*In water at 1cks

### Flow Rate and Pressure Drop Formulas

\[
\text{Clean } \Delta P = \text{Flow Rate x Viscosity x Flow Factor x Length Factor} \\
\text{Flow Rate (gpm)} = \text{Clean } \Delta P \times \text{Length Factor} \\
\text{Flow Factor} = \frac{\Delta P}{GPM} \text{ at 1cks for 10 in. (or single)}
\]

### 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 1cks for 10 in. (or single).
4. Length Factors convert flow or ΔP from 10 in. (single length) to required cartridge length.

### Ordering Information Diagram

- **Cartridge Code**
- **Nominal Series**
- **Micron Rating**
- **Length (in.)**
- **O-Ring Material**

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Specifications are subject to change without notification.
For User Responsibility Statement, see [www.parker.com/safety](http://www.parker.com/safety)

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