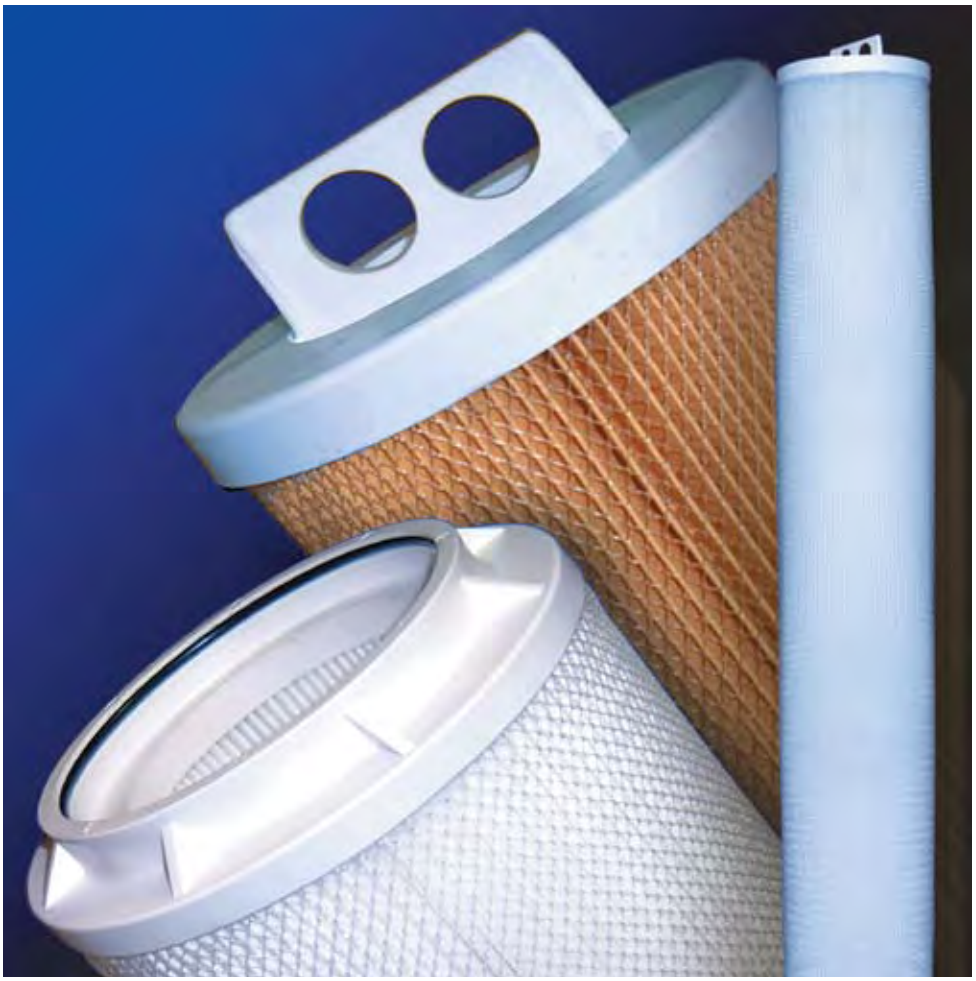
Fulflo® MegaFlow Filter Cartridges

High Flow Capacity Pleated Filter Cartridges

Parker's Fulflo® MegaFlow™ cartridges provide a cost effective alternative to wound and other 2 1/2 inch OD style filter cartridges in high flow applications such as reverse osmosis pre-filtration and similar applications where nominal efficiency is sufficient. Each MegaFlow™ cartridge can handle flow rates up to 175 gpm (662 lpm), significantly reducing the number of cartridges required and the housing size. Each 6 inch (152 mm) diameter MegaFlow™ cartridge has flow capacity equal to 8 standard 2 1/2 inch OD X 40 inch long filter cartridges. Positive O-ring seals and a built in handle make cartridge installation reliable, fast and easy.

MegaFlow™ cartridges are available in either pleated polypropylene or cellulose media with nominal ratings of 0.5, 1, 5 and 10 micron.



Benefits

- High flow capacity means fewer cartridges and reduces labor costs to change
- High flow capacity allows 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 than other cartridges
- All materials of construction in polypropylene cartridges comply with FDA regulations per CFR Title 21
- Horizontal and vertical housings are available for flow rates up to 3,325 gpm (12,586 LPM)

Applications

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

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Fulflo® Mega-Flow 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: 35 psid (2.4 bar)
Maximum Flow Rate: 175 gpm (662 lpm)
Maximum Temperature: 200°F (93°C)
Maximum Differential Pressure: 150 psid (10 bar)

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)

Cartridge Code	Nominal Rating	Media	Removal Rating (Microns) at Efficiency 90%	95%	98%	99%	99.9%	Flow Factor* [PSID/GPM (Mbar/lpm)]
MFNP005	0.5	Polypropylene	0.5	1	2	5	10	0.003 (0.06)
MFNP010	1	Polypropylene	1	3	7	10	30	0.0007 (0.014)
MFNP050	5	Polypropylene	5	10	20	30	50	0.0004 (0.008)
MFNP100	10	Polypropylene	10	30	50	60	90	0.0003 (0.006)
MFNC005	0.5	Cellulose	0.5	1	2	3	10	0.002 (0.03)
MFNC010	1	Cellulose	1	2	3	5	20	0.0002 (0.003)
MFNC050	5	Cellulose	5	8	10	15	85	0.0001 (0.002)
MFNC100	10	Cellulose	10	12	15	30	100	0.00005 (0.0009)

*In water at 1 cks

Flow Rate and Pressure Drop Formulas

$$\text{Flow Rate (gpm)} = \frac{\text{Clean } \Delta P \times \text{Length Factor}}{\text{Viscosity} \times \text{Flow Factor}}$$

$$\text{Clean } \Delta P = \frac{\text{Flow Rate} \times \text{Viscosity} \times \text{Flow Factor}}{\text{Length Factor}}$$

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

MCN □ □ **40** □

Cartridge Code	Media	Micron Rating	Length	O-Ring Material
Mega Flow Nominal Series	P = Polypropylene C = Cellulose	005 = 0.5 µm 010 = 1 µm 050 = 5 µm 100 = 10 µm	40 = 40"	N = Buna - N E = EPR S = Silicone V = Viton*

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

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