



MegaFlow™ Fulflo® Filter Cartridges

- Polypropylene
- Cellulose

Pleated Series

High Flow Capacity Coreless 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 250 gpm (950 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 10 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.

Applications

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



Features and Benefits

- High flow capacity means fewer cartridges and reduces labor costs to change.
- High flow capacity allows smaller housings and less capital expenditure.
- Coreless construction reduces disposal volume and cost.
- 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 4,750 gpm (18,000 LPM)

Process Filtration Division



Specifications

Nominal Filtration Ratings (90%)

- 0.5, 1, 5 and 10 µm

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

Dimensions:

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

Surface Area:

55 - 60 ft² (5.1 - 5.6 m²)

Recommended Operating Conditions:

Change Out
Differential Pressure: 35 psid (2.4 bar)
Maximum Flow Rate: 250 gpm (950 lpm)
Maximum Temperature: 200°F (93°C)
Maximum Differential Pressure: 150 psid (10 bar)

Cartridge Code	Nominal Rating	Media	Removal Rating (Microns) at Efficiency					Flow Factor* [PSID/GPM (Mbar/lpm)]
			90%	95%	98%	99%	99.9%	
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:

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

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

Notes:

- Clean ΔP is PSI differential at start.
- Viscosity is centistokes.
Use Conversion Tables for other units.
- Flow Factor is $\Delta P/GPM$ at 1 cks

Ordering Information

MFN

Cartridge Code

MegaFlow™
Nominal Series

C

Media

P = Polypropylene
C = Cellulose

050

Micron Rating

005 - 0.5 µm
010 - 1 µm
050 - 5 µm
100 - 10 µm

40

Length

40 = 40"

N

O-Ring Material

N = Buna N
E = EPR
S = Silicone
V = Fluoroelastomer

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