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

Bulletin C-2055 Eff. 4/01 Rev. 08/02

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 ft^2 (5.1 - 5.6 m^2)

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 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:

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

Clean ΔP = Flow Rate x Viscosity x Flow 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

Ordering Information

MFN	C	050	40	N
Cartridge Code	*Media*	*Micron Rating*	*Length*	*O-Ring Material*
MegaFlow™ 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 = Fluoroelastomer

Process Filtration Division

Parker Hannifin Corporation
Process Filtration Division
6640 Intech Boulevard
Indianapolis, Indiana 46278
Toll Free 1-888-C-FULFLO (238-5356)
Telephone (317) 275-8300
Fax (317) 275-8410
http://www.parker.com