

MegaFlow+™ Fulflo® **Filter Cartridges**

- **Polypropylene**
- Cellulose

Pleated Series

Absolute Rated, High Flow **Capacity, Coreless Pleated** Filter Cartridges.

Parker's Fulflo® MegaFlow+™ cartridges are ideally suited for high flow applications where absolute particle removal is required. Each MegaFlow+ $^{\text{TM}}$ cartridge can handle flow rates up to 250 gpm (950 lpm), significantly reducing the number of cartridges required as well as 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 cartridges. Positive O-ring seals and a built in handle make cartridge installation reliable, fast and easy.

MegaFlow+™ cartridges are available with pleated polypropylene or cellulose media for use in a wide variety of fluids. Absolute ratings range from 1 μm to 150 μm.

Applications

- Potable Water
- Reverse Osmosis Pre-Filtration
- Vegetable Oil
- Lubricants
- Coolants
- Petrochemicals
- Wastewater
- Food and Beverage



Features and Benefits

- High flow capacity means fewer cartridges and less time to change.
- High flow capacity allows smaller housings.
- 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 expands fluid compatibility.

- High surface area pleated design provides low pressure drop and long service life.
- Polypropylene cartridges comply with FDA regulations per CFR Title 21.
- Horizontal and vertical housings available for flow rates up to 4750 gpm (18,000 lpm).
- Reduces process interruptions.





Pleated Series

Specifications

Absolute Filtration Ratings (β = 5000; 99.98%):

Polypropylene: 1, 2, 5, 10, 20, 40, 70 μm Cellulose: 10, 15, 25, 100, 150 μm

Media: Polypropylene microfiber (P Code)

Cellulose with phenolic binder (C Code)

Support layers: Polypropylene (P Code) **End Caps**: Polypropylene (glass filled)

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 m²)

Recommended Operating Conditions:

Changeout 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	Absolute Rating	Media	Removal F 99.98%	Rating (Mic 99.9%	crons) at E 99%	Efficiency 98%	Flow Factor* [PSID/GPM (Mbar/lpm)]
MFAP010	1	Polypropylene	1	0.8	0.45	<0.2	0.078 (1.4)
MFAP020	2	Polypropylene	2	1.5	0.8	0.2	0.031 (0.6)
MFAP050	5	Polypropylene	5	4	1	0.45	0.008 (0.01)
MFAP100	10	Polypropylene	10	7	2	0.5	0.003 (0.06)
MFAP200	20	Polypropylene	20	13	4	2	0.002 (0.04)
MFAP400	40	Polypropylene	40	22	7	3	0.001 (0.02)
MFAP700	70	Polypropylene	70	52	22	15	0.0008 (0.015)
MFAC100	10	Cellulose	10	8	2	1	0.003 (0.05)
MFAC150	15	Cellulose	15	10	3	2	0.002 (0.03)
MFAC250	25	Cellulose	25	20	5	3	0.0002 (0.003)
MFAC1000	100	Cellulose	100	85	10	5	0.0001 (0.002)
MFAC1500	150	Cellulose	150	100	30	15	0.00005 (0.0009)

Flow Rate and Pressure Drop Formulas:

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

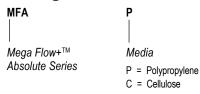
Clean ΔP = Flow Rate x Viscosity x Flow Factor

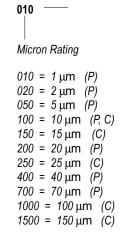
Notes:

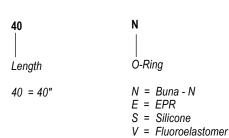
- 1. Clean ΔP is \underline{PSI} differential at start.
- 2. **Viscosity** is centistokes.
 Use Conversion Tables for other units.
- 3. Flow Factor is ΔP/GPM at 1 cks

*In water at 1 cks

Ordering Information







Process Filtration Division

Filtration

Parker Hannifin Corporation
Process Filtration Division
6640 Intech Boulevard
Indianapolis, Indiana 46278
Toll Free 1-888-C-FULFLO (238-5356

Indianapolis, Indiana 462/8
Toll Free 1-888-C-FULFLO (238-5356)
Telephone (317) 275-8300
Fax (317) 275-8410
http://www.parker.com