



## 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+™ 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 ½ 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.

## **Process Filtration Division**



## Specifications

### Absolute Filtration Ratings ( $\beta_x = 5000$ ; 99.98%):

Polypropylene: 1, 2, 5, 10, 20, 40, 70  $\mu\text{m}$   
 Cellulose: 10, 15, 25, 100, 150  $\mu\text{m}$

**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.<sup>2</sup> (5.1 - 5.6 m<sup>2</sup>)

### 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 Rating (Microns) at Efficiency				Flow Factor* [PSID/GPM (Mbar/lpm)]
			99.98%	99.9%	99%	98%	
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:

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

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

### Notes:

1. **Clean  $\Delta P$**  is PSI differential at start.
2. **Viscosity** is centistokes.  
Use Conversion Tables for other units.
3. **Flow Factor** is  $\Delta P/\text{GPM}$  at 1 cks

\*In water at 1 cks

## Ordering Information

**MFA**  
 Mega Flow+™  
 Absolute Series

**P**  
 Media  
 P = Polypropylene  
 C = Cellulose

**010** ———  
 Micron Rating  
 010 = 1  $\mu\text{m}$  (P)  
 020 = 2  $\mu\text{m}$  (P)  
 050 = 5  $\mu\text{m}$  (P)  
 100 = 10  $\mu\text{m}$  (P, C)  
 150 = 15  $\mu\text{m}$  (C)  
 200 = 20  $\mu\text{m}$  (P)  
 250 = 25  $\mu\text{m}$  (C)  
 400 = 40  $\mu\text{m}$  (P)  
 700 = 70  $\mu\text{m}$  (P)  
 1000 = 100  $\mu\text{m}$  (C)  
 1500 = 150  $\mu\text{m}$  (C)

**40**  
 Length  
 40 = 40"

**N**  
 O-Ring  
 N = Buna - N  
 E = EPR  
 S = Silicone  
 V = Fluoroelastomer

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