

# Fulflo® MegaFlow™ Plus Filter Cartridges

Absolute-rated, high-flow capacity  
pleated cartridge

Parker's Fulflo® MegaFlow™ Plus cartridges are ideally suited for high flow applications where absolute particle removal is required. Each Mega-Flow Plus cartridge can handle flow rates up to 175gpm (662 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 8 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 Plus cartridges are available with pleated polypropylene media for use in a wide variety of fluids. Absolute ratings range from 1 µm to 150 µm.



## Contact Information

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## Benefits

- High-flow capacity means fewer cartridges and less time to change
- High-flow capacity allows smaller housings
- Built in handle makes change fast, easy and safe
- O-ring seal assures filtration integrity
- Choice of polypropylene media expands fluid compatibility
- High surface area pleated design provides low pressure drop and long service life
- All cartridges constructed with polypropylene are FDA listed as acceptable for potable and edible contact according to CFR Title 21

- Horizontal & vertical housings available for flow rates up to 3325gpm (12,586 lpm)
- Reduces process interruptions
- ISO 9001 registered company

## Applications

- Potable Water
- Vegetable Oil
- Wastewater
- Lubricants
- Food and Beverage
- Coolants



ENGINEERING YOUR SUCCESS.

# Fulflo® MegaFlow™ Plus Filter Cartridges

## SPECIFICATIONS

### Absolute Filtration Ratings (β<sub>x</sub> = 5000; 99.98%)

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

### Materials of Construction

#### Media

- Polypropylene microfiber (P Code)
- Cellulose with phenolic binder (C Code)

#### Support Layers

- Polypropylene (P Code)

#### End caps

- Glass Filled Polypropylene

#### O-Rings

- Buna-N, EPR, Silicone, Fluoroelastomer

### Recommended Operating Conditions

#### Change Out Differential Pressure

- 35psid (2.4bar)

#### Maximum Flow Rate

- 175gpm (662 lpm)

#### Maximum Temperature

- 200°F (93°C)

#### Maximum Differential Pressure

- 150psid (10bar)

### 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>)

Cartridge Code	Absolute Rating	Media	Removal Rating (μm) @ Efficiency of:				Flow Factor* [(psid   gpm) (mbar   lpm)]
			98%	99%	99.9%	99.98%	
MCAP010	1	Polypropylene	<0.2	0.45	0.8	1	0.078 (1.4)
MCAP020	2	Polypropylene	0.2	0.8	1.5	2	0.031 (0.6)
MCAP050	5	Polypropylene	0.45	1	4	5	0.008 (0.01)
MCAP100	10	Polypropylene	0.5	2	7	10	0.003 (0.06)
MCAP200	20	Polypropylene	2	4	13	20	0.002 (0.04)
MCAP400	40	Polypropylene	3	7	22	40	0.001 (0.02)
MCAP700	70	Polypropylene	15	22	52	70	0.0008 (0.015)
MCAC100	10	Cellulose	1	2	8	10	0.003 (0.05)
MCAC150	15	Cellulose	2	3	10	15	0.002 (0.03)
MCAC250	25	Cellulose	3	5	20	25	0.0002 (0.003)
MCAC1000	100	Cellulose	5	10	85	100	0.0001 (0.002)
MCAC1500	150	Cellulose	15	30	100	150	0.00005 (0.0009)

\*In water at 1cks

### Flow Rate and Pressure Drop Formulas

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

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

#### Note:

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 1cks for 10 in (or single).

## Ordering Information

MCA		Media		Micron Rating		Length		O-Ring Material	
Cartridge Code		CODE	DESCRIPTION	CODE	μm	CODE	IN.	CODE	DESCRIPTION
MegaFlow Plus Absolute Series		P	Polypropylene	010	1 (P)	40	40"	E	EPR
		C	Cellulose	020	2 (P)			N	Buna-N
				050	5 (P)			S	Silicone
				100	10 (P, C)			V	Viton®
				150	15 (C)				
				200	20 (P)				
				250	25 (C)				
				400	40 (P)				
				700	70 (P)				
				1000	100 (C)				
				1500	150 (C)				

Specifications are subject to change without notification.  
For User Responsibility Statement, see [www.parker.com/safety](http://www.parker.com/safety)

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