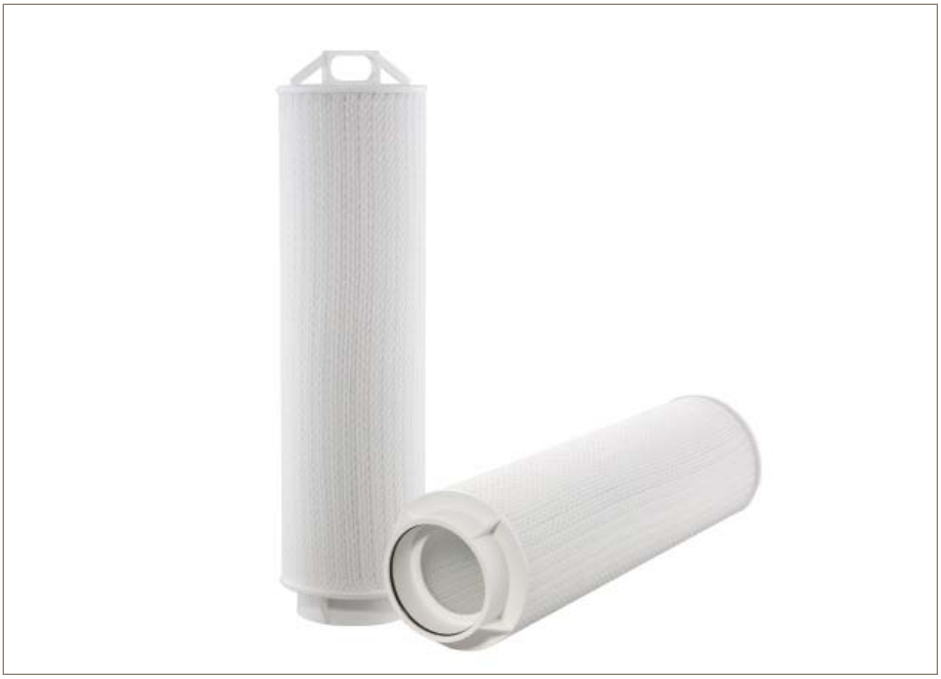
Fulflo® MegaFlow™ Filter Cartridges

Pleated cartridges for high-flow capacity

Parker's Fulflo® MegaFlow™ cartridges are a cost effective alternative to wound and other 2½ in. OD style filter cartridges in high flow applications, such as reverse osmosis pre-filtration, where nominal efficiency is sufficient. Each MegaFlow cartridge can handle flow rates up to 175gpm (662lpm), which reduces the number of cartridges required and allows for smaller housings. Each 6 inch (152 mm) diameter MegaFlow cartridge has flow capacity equal to 8 standard 2½ in. OD X 40 in. long cartridges. Positive O-ring seals and a built-in handle make cartridge installation reliable, fast & easy. MegaFlow cartridges are available in either pleated polypropylene or cellulose media with nominal ratings of 0.5, 1, 5 & 10 micron.



Contact Information

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Benefits

- High-flow capacity means fewer cartridges & change-outs which reduces labor costs
- High-flow capacity allows for smaller housings and less capital expenditure
- 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
- All cartridges constructed with polypropylene are FDA listed as acceptable for potable and edible contact according to CFR Title 21
- Horizontal and vertical housings are available for flow rates up to 3,325gpm (12,586 lpm)
- ISO 9001 registered company

Applications

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

ENGINEERING YOUR SUCCESS.

Fulflo® MegaFlow Filter Cartridges

SPECIFICATIONS

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

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)

Nominal Filtration Ratings

(90%) 0.5, 1, 5 and 10 µm

Dimensions

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

Surface Area

55-60 ft^2 (5.1-5.6m^2)

Cartridge Code	Nominal Rating	Media	Removal Rating (µm) @ Efficiency of:					Flow Factor* [(psid | gpm (mbar | lpm)]
			90%	95%	98%	99%	99.9%	
MCNP005	0.5	Polypropylene	0.5	1	2	5	10	0.003 (0.06)
MCNP010	1	Polypropylene	1	3	7	10	30	0.0007 (0.014)
MCNP050	5	Polypropylene	5	10	20	30	50	0.0004 (0.008)
MCNP100	10	Polypropylene	10	30	50	60	90	0.0003 (0.006)
MCNC005	0.5	Cellulose	0.5	1	2	3	10	0.002 (0.03)
MCNC010	1	Cellulose	1	2	3	5	20	0.0002 (0.003)
MCNC050	5	Cellulose	5	8	10	15	85	0.0001 (0.002)
MCNC100	10	Cellulose	10	12	15	30	100	0.00005 (0.0009)

*In water at 1cks

Flow Rate and Pressure Drop Formulas

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

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

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 1cks for 10 in. (or single).
4. Length Factors convert flow or ΔP from 10 in. (single length) to required cartridge length.

Ordering Information

MCN [ ] [ ] — 40 [ ]

Cartridge Code
MegaFlow Nominal Series

Media	
P	Polypropylene
C	Cellulose

Micron Rating	
005	0.5µm
010	1µm
050	5µm
100	10µm

Length (in.)	
40	40"

O-Ring Material	
E	EPR
N	Buna-N
S	Silicone
V	Viton®