Fulflo® Mega-Flow™ Filter Cartridges

Pleated cartridges for high-flow capacity

Parker's Fulflo® Mega-Flow™ 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 Mega-Flow 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 Mega-Flow 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. Mega-Flow cartridges are available in either pleated polypropylene or cellulose media with nominal ratings of 0.5, 1, 5 & 10 micron.

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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 than other cartridges
- All materials of construction in polypropylene cartridges comply with FDA regs. per CFR Title 21
- Horizontal and vertical housings are available for flow rates up to 3,325gpm (12,586 lpm)

Applications

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

ENGINEERING YOUR SUCCESS.

Fulfo® Mega-Flow 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

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

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

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
Mega-Flow 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®

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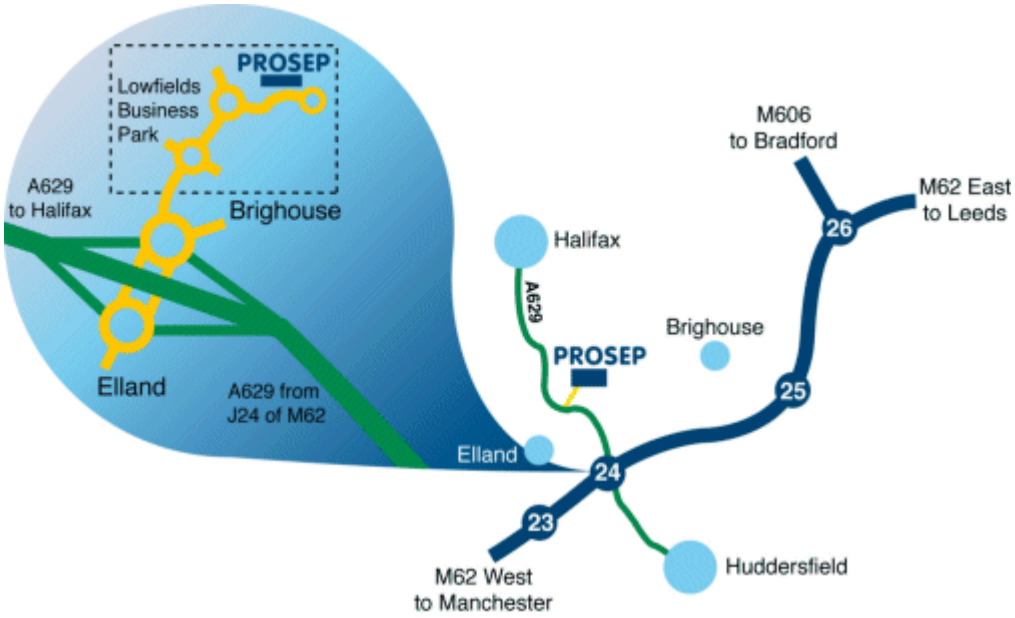
Map and Directions to Prosep Filters Limited



Leave M62 at Junction 24.
At roundabout adjacent to Cedar Court Hotel take 2nd exit onto dual carriageway (A629), signposted Halifax.
Take 1st exit slip road.
At roundabout at end of sliproad, take 3rd exit off.
This is the entrance to Lowfields Business Park.
Proceed straight over 1st roundabout.
At next roundabout take 2nd exit onto River Bank Way - Prosep Filters can be found on the left after the S-bend.

Link to Google Maps