FiltersOurce.com Inc
a Trumpler Clancy Company

FILTRATION | SEPARATION | PURIFICATION

PMC™ Series Filter Cartridges

Economically Efficient Pleated Filter Cartridges
This cost effective, disposable filter element can be used for a wide range of applications. The filter is constructed of pleated polypropylene filter media with high surface area that allows for greater system flow rate.

Features–Benefits

- Micron ratings from 0.2 to 50 µm– Broad application range
- Fixed pore structures– Resists unloading of captured contaminant
- Polypropylene Construction– Inert to many process fluids
- Various Gasket/O-Ring materials– Compatible with a variety of fluids
- Economically efficient filtration
- Manufactured in continuous lengths up to 40 inches

Certifications
USP Class VI - Meets USP Class VI Biological Test for Plastics.
FDA Listed Materials - All Materials comply with FDA Title 21 of the Code of Federal Regulations Sections 174.5, and 177.1520, as applicable for food and beverage contact.
European Directive for Direct Food Contact - European Regulations No 1935/2004 and European directive 82/711/EEC: Tested for migration behavior in direct food contact. Minimal rinse required for use. Data available upon request.

Product Specifications

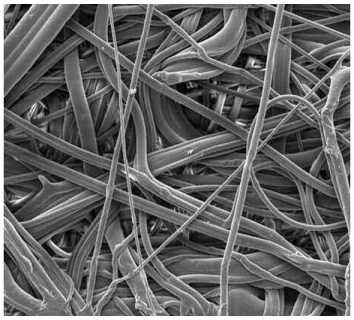
Media: Polypropylene
Inner core: Polypropylene
End caps: Polypropylene
Cage: Polypropylene
Gaskets/O-Rings options: Buna-N, EPDM, Silicone, Viton, Teflon Encapsulated Viton (O-Rings only)
Micron ratings: 0.2, 0.25, 0.45, 0.5, 1.0, 2.0, 5.0, 10, 25, 50µm
**Other micron rated media available upon request*

Dimensions

Nominal lengths: 5", 9.75'', 10'', 20'', 30'', 40'' (12.7, 24.8, 25.4, 50.8, 76.2, 101.6 cm)
Outside diameter: 2.7'' (6.86 cm)
Inside diameter: 1.0'' (2.54 cm)

Operating Parameters

Maximum operating temperature: 176 °F (80°C)
Differential pressure: 75 psid @ 70°F (5.2 bar @ 21°C)
40 psid @ 176°F (2.8 bar @ 80°C)
Recommended change-out pressure: 35 psid (2.4 bar)



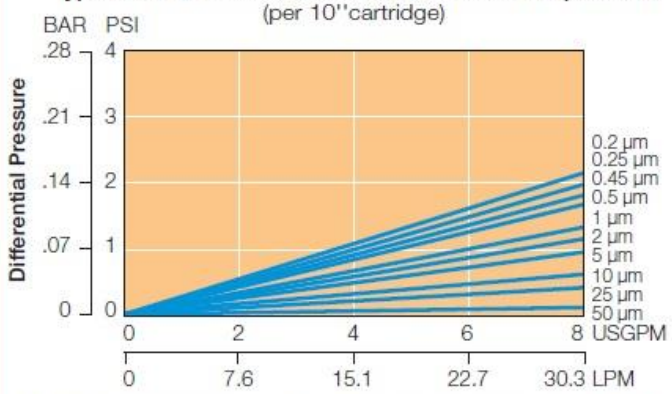
PMC Nomenclature Information

PMC	2	-20	P8	V
Filter Type PMC Series Filters		**Nominal Length (inches)**	**End Configuration**	**Gasket or O-Ring**
Retention Rating (microns) 0.2 2 0.25 5 0.45 10 0.5 25 1 50		-5 -9.75 -10 -20 -30 -40	**P** Double Open End **P2** 226/Flat Single Open End **P3** 222/Flat Single Open End **P7** 226/Fin Single Open End **P8** 222/Fin Single Open End **AM** Single open end, internal O-Ring **NPC** Double open end, internal O-Ring	**S** Silicone **B** Buna-N **E** EPDM **V** Viton **T** Teflon endcap. Viton (O-Rings only) **T** Teflon (Gasket only)

Example: PMC 2-20P8V

PMC FLOW RATE

Typical Flow Rate Clean Water at Ambient Temperature
(per 10''cartridge)



For liquids other than water, multiply pressure drop by the fluid viscosity in centipoise

Removal Efficiency

Beta Ratio Efficiency	*Beta 50 98%*	*Beta 10 90%*
0.2 micron	*0.28*	*0.20*
0.25 micron	*0.35*	*0.25*
0.45 micron	*0.6*	*0.45*
0.5 micron	*0.7*	*0.5*
1 micron	*1.5*	*1.0*
2 microns	*2.7*	*2.0*
5 microns	*7.0*	*5.0*
10 microns	*12.0*	*10.0*
25 microns	*32.0*	*25.0*
50 microns	*70.0*	*50.0*

$$\text{Beta Ratio} = \frac{\text{Upstream particle counts}}{\text{Downstream particle counts}}$$

The micron ratings shown at various efficiency and beta ratio value levels were determined through laboratory testing, and can be used as a guide for selecting cartridges and estimating their performance. Under actual field conditions, results may vary somewhat from the values shown due to the variability of filtration parameters.

Testing was conducted using the single-pass test method, water at 3 gpm/10'' cartridge. Contaminant's included latex beads, coarse and fine test dust. Removal efficiencies were determined using dual laser source particle counters.

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