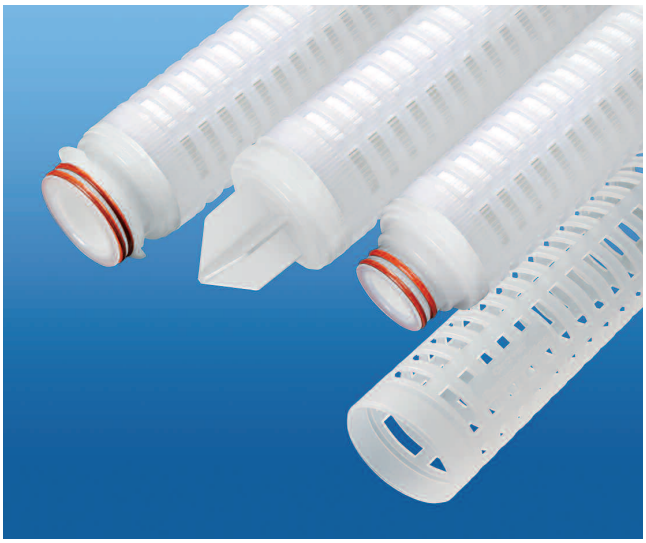
FILTRATION | SEPARATION | PURIFICATION

PMA™ Series Filter Cartridges

"Absolute" Rated Pleated Filter Cartridges

This all polypropylene filter retains particles with absolute efficiency. Available in a broad range of pore sizes, it is suitable for a wide range of applications. The pleated construction provides a high surface area to offer outstanding overall filtration economy.



Features–Benefits

- Micron ratings from 0.2 to 100 µm– Broad application range
- "Absolute" Efficiency– Rated at 99.98% (Beta 5000)
- Competitive surface area– High flow rates, and long on-line service– Minimize maintenance cost
- Fixed pore structure– Eliminates dirt unloading at maximum differential pressure
- Polypropylene Construction– Inert to many process fluids
- Various Gasket/O-Ring materials– Compatible with a variety of fluids
- 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

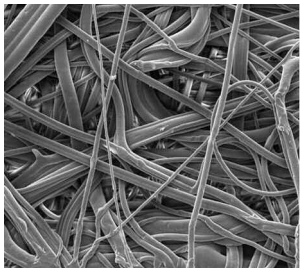
Media:	*Polypropylene*
Inner core:	*Polypropylene*
End caps:	*Polypropylene*
Cage:	*Polypropylene*
Gaskets/O-Rings:	*Buna-N, EPDM, Silicone, Viton, Teflon Encapsulated Viton (O-Rings only)*
Polypropylene micron ratings:	*0.2, 0.45, 1.0, 2.5, 5.0, 10, 25, 50, 100µm*

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)*
Maximum 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)*



PMA Nomenclature Information

PMA	2.5	-10	P	V

PMA — **Filter Type**
PMA Series Filters

2.5 — **Retention Rating (microns)**

0.2	**10**
0.45	**25**
1	**50**
2.5	**100**
5	

-10 — **Nominal Length (inches)**

-5	**-20**
-9.75	**-30**
-10	**-40**

P — **End Configuration**

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

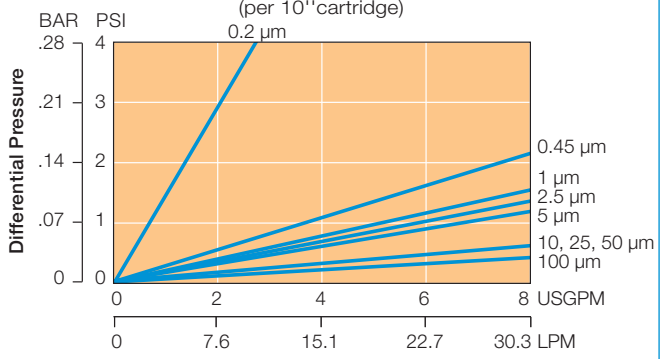
V — **Gasket or O-Ring**

S	Silicone
B	Buna-N
E	EPDM
V	Viton
T	Teflon endcap.Viton (O-Rings only)
T	Teflon gasket

Example: PMA 2.5-10PV

PMA 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 5000 99.98%*	*Beta 100 99%*	*Beta 50 98%*
0.2 micron	*0.20*	*0.10*	*0.05*
0.45 micron	*0.45*	*0.30*	*0.20*
1 micron	*1.0*	*0.60*	*0.30*
2.5 microns	*2.5*	*2.0*	*1.5*
5 microns	*5.0*	*4.0*	*3.0*
10 microns	*10.0*	*8.0*	*7.0*
25 microns	*25.0*	*19.0*	*15.0*
50 microns	*45.0*	*35.0*	*28.0*
100 microns	–	*100.0*	*85.0*

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

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.

DISTRIBUTED BY:

FiltersSource.com
a Trumpler Clancy Company
75 Elmview Avenue
Hamburg, NY 14075
Phone: 716-649-2326
Fax: 716-649-9006

ISO 9001:2008
FM 38860