

PME™ Series Filter Cartridges

“Absolute” Rated Economical Pleated Filter Cartridges

For cost driven applications, choose the PME Series to deliver absolute efficiency in a broad range of particle sizes. This all polypropylene filter is suitable for a wide range of applications and carries all the needed industry certifications to satisfy most critical requirements. In addition, the slightly smaller diameter ensures easy retrofit in installed housings designed to accept depth filters. The pleated construction provides high dirt holding capability and low pressure drops.

Features–Benefits

- Micron ratings from 0.2 to 50 µm – Broad application range
- 2.55" diameter to fit installed housings with ease
- “Absolute” Efficiency – Rated at 99.98% (Beta 5000)
- Optimized surface area – High dirt holding for long service life
- 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

Product Specifications

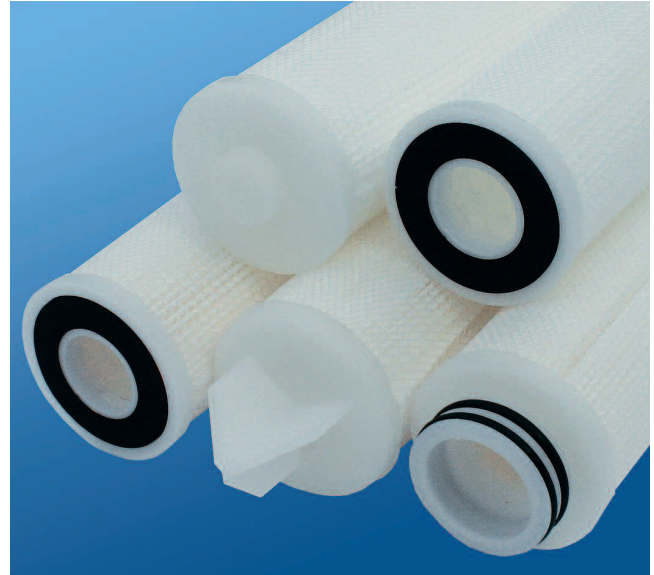
Media:	Polypropylene
Inner core:	Polypropylene
End caps:	Polypropylene
Outer Netting:	Polypropylene
Gaskets/O-Rings:	Buna-N, EPDM, Silicone, Viton, Teflon Encapsulated Viton (O-Rings only)
Polypropylene micron ratings:	0.2, 0.45, 1.0, 2.5, 5.0, 10, 25, 50 µm

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:	2.55" (6.48 cm)
Inside diameter:	1.0" (2.54 cm)

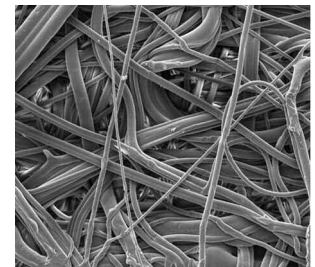
Operating Parameters

Maximum operating temperature:	176 °F (80 °C)
Maximum differential pressure:	50 psid @ 70 °F (3.4 bar @ 21°C) 25 psid @ 176 °F (1.7 bar @ 80°C)
Recommended change-out pressure:	35 psid (2.4 bar)



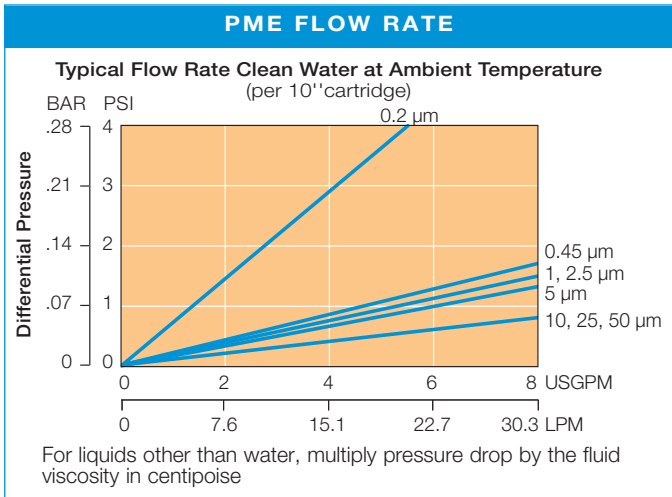
Certification

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.



PME Nomenclature Information				
PME	5	-10	P3	B
Filter Type PME Series Filters		Nominal Length (inches)		Gasket or O-Ring
Retention Rating (microns)		-5 -20		S Silicone
0.2 5		-9.75 -30		B Buna-N
0.45 10		-10 -40		E EPDM
1 25				V Viton
2.5 50				T Teflon encap. Viton (O-Rings only)
			End Configuration	
			P Double Open End	
			P3 222/Flat Single Open End	
			P8 222/Fin Single Open End	

Example: PME 5-10P3B



Removal Efficiency

Beta Ratio Efficiency	Beta 5000	Beta 10
99.98%	99.98%	90%
0.2 micron	0.20	0.08
0.45 micron	0.45	0.25
1 micron	1.0	0.5
2.5 microns	2.5	1.0
5 microns	5.0	1.8
10 microns	10.0	6.0
25 microns	25.0	11.0
50 microns	45.0	25.0

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

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.

For more information

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