

Pleated Polypropylene

Series PP polypropylene cartridges are designed for residential, commercial, and industrial filtration applications. Constructed of durable, chemical resistant polypropylene media, they can be employed on many acids, alkalies, plating solutions, water remediation, and saline solutions.

4ft² of fabric media has been pleated for the standard 2 3/4" diameter by 9 3/4" long cartridge and over 16ft² for the larger 4 1/2" diameter by 9 3/4" long version.

Matrix's Separations newly and recently developed Series PP polypropylene cartridge filters employ a five (5) layered, high porosity "Bi-Componenet" polypropylene media consisting of both spun bonded and melt blown polypropylene layers laminated together by ultrasonic sealing in order to provide depth filtration to the media. This depth filtration will allow the cartridge to collect more dirt particulate and in most instances offer a longer life. The soft spun bonded polypropylene, having distinct dot patterns, is employed on the outer three (3) layers to serve as a prefilter to reduce larger particles while the smooth textured dernier melt blown polypropylene, which has been calandered in order to reduce the media pore size, is incorporated on the inner two (2) layers for microfiltration. This arrangement of both the "pre" and "post" filter components provides two separate gradient layers in one filter. "Gradient Density" filters reduce larger particles, which would blind-off ordinary surface filters on their outer layers, while reducing the final particles on their inner layers. This design is an advancement in filtration technology and maximizes utilization of the filtration media while enhancing overall cartridge performance. Cartridge ends have been immersed in vinyl plastisol, creating a unitized end cap and gasket which virtually eliminates bypass.

Type: Bi-Component Polypropylene

Construction: Pleated Bi-Compent
Polypropylene Vinyl Plastisol
End Caps Polypropylene Core

Operating Temperature Range: 40...F (44...C) to 145...F (63...C)

Micron Rating: Nominal 1, 5, 10, 20, 50



DIMENSIONS RECOMMENDED

MAXIMUM FLOW RATES

2 3/4" diam. x 9 3/4", 10" length	10 GPM
2 3/4" diam. x 19 1/2", 20" length	15 GPM
2 3/4" diam. x 30" length	20 GPM
2 3/4" diam. x 40" length	25 GPM
4 1/2" diam. x 9 3/4", 10" length	25 GPM
4 1/2" diam. x 20" length	40 GPM

SELECTION GUIDE

PP Filter Media	5 Micron Rating	x Length	10 Tube O.D. Blank = 2 5/8" O.D.
PP - Polypropylene	1	9 3/4"	
	5	10"	
	10	19 1/2"	
	20	20"	
	50	30"	
		40"	BB = 4 1/2" O.D.

BENEFITS OF "BI-COMPONENT" POLYPROPYLENE MEDIA

- LOWER clean initial pressure drops
- MORE uniform filtration & overall enhanced cartridge performance
- HIGH particulate reduction efficiencies up to 95%
- OPERATE at HIGHER velocities & flow rates
- GREATER degree of depth filtration
- ADDED loading capabilities
- "Gradient Density" filtration



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