

### Polypropylene (PP) Pleated Cartridge Filters – E Grade Features & Benefits

- Pleated construction yields high flow rates compared to traditional depth filters.
- Graded density layering for superior removal of amorphous particles.
- Rigid cage design permits superior strength.
- All materials listed as acceptable for potable and edible contact according to CFR Title 21.
- Tri-tier, graded density layering – pre-filtration layer, PP Media, after-filtration layer
- Superior Flow, lower dp and a longer service life.
- Fully Thermal bonded, no surfactants.
- Electronic Grade (E Grade) filter cartridge pre-flushed with 18meg UPW water and double pack in avoidance of cross contamination.

### Technical Specifications

#### Material of Constructions

- Media Polypropylene
- Support/Drainage Polypropylene
- Hardware-Cage/Core/Endcaps Polypropylene
- O-rings (SOE) EPR, Viton, Silicone, TEV
- O-rings (DOE) EPR, Viton\*, Silicone

#### Effective Filtration Area

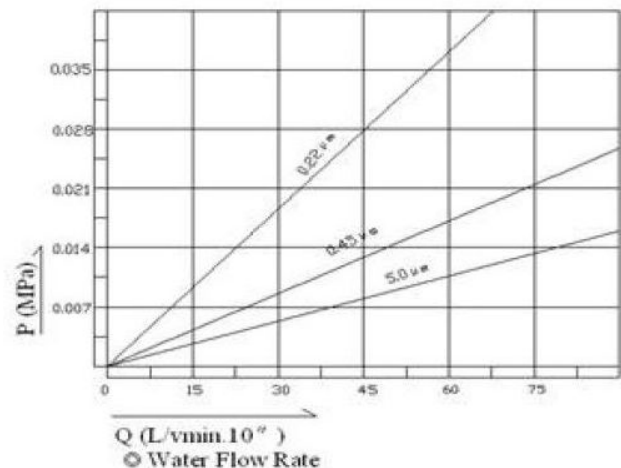
- Up to 0.79m<sup>2</sup> (8.5ft<sup>2</sup>) per 250mm (10" module)

#### Maximum Operating Conditions:

- Maximum Temperature:
  - 176°F (80°C) @ 30 psid (2.1 bar)
- Maximum Differential Pressure:
  - 70 psi (4.8 bar) @ 77°F (25°C)
  - 30 psi (2.1 bar) @ 176°F (80°C)

#### Recommended Operating Conditions:

- Flow Rate:
  - 5 gpm (18.93 lpm) per 10" equivalent
- Change-out Pressure:
  - 35 psid (2.41 bar)



## Retention Characteristics

The retention characteristics of PP Pleated Cartridges have been determined by a single-pass technique using suspensions of ISO 12103 Part 1 A2 Fine and A4 Coarse test dust in water.

Media Code β ratio	Micron Rating at Various Efficiencies				
	> 99.99% 10000	99.98% 5000	99.90% 1000	99% 100	90% 10
0.60	0.60	0.57	0.54	0.32	0.20
1.0	1.00	0.95	0.90	0.70	0.50
1.5	1.50	1.40	1.10	0.80	0.65
003	3.00	2.80	1.80	1.00	0.70
005	5.00	4.70	4.50	3.50	1.00
007	7.00	6.70	6.30	4.50	2.50
010	10.00	8.00	7.00	4.80	2.80
015	15.00	12.00	10.00	7.20	4.50
020	20.00	16.00	14.00	10.00	6.00
025	25.00	20.00	17.00	12.00	7.00

### Ordering Information:

L*	P	(Endcap Design)	(Micron Rating)	(Cartridge Length)	Seal Material
<u>P</u>	Polypropylene	A=SOE-222 O'ring/Fin	0.2( <u>020</u> ), 0.45( <u>045</u> )	5"( <u>05</u> ), 10"( <u>10</u> ), 20"( <u>20</u> ),	S=Silicon
<u>E</u>	Media	B=SOE-222 O'ring/Flat	0.65( <u>065</u> ), 1.0( <u>100</u> ),	30"( <u>30</u> ), 40"( <u>40</u> )	E=EPDM
<u>F</u>		C=SOE-226 O'ring/Fin	3.0( <u>300</u> ), 5.0( <u>500</u> ),		V=Viton
<u>omit</u>		D=SOE-226 O'ring/Flat	10( <u>1000</u> )		T=TEV
		E=DOE-Double Opening			
		End			

\*Grades

P=Pharmaceutical (Sterilized/integrity tested )

E=Electronics (Pre-flushed with 18meg UPW/Double Pack)

F=Food & Beverage (Integrity Tested)

Omit=General purpose