



IFP Absolute PP Multilayer Filter Cartridge

IFP Absolute PP Multilayer Filter Cartridge is an absolute rated high performance (99.98% efficiency) pleated polypropylene filter cartridge. The all-polypropylene construction with multiple layers provides excellent compatibility with board range of chemicals and superior structural integrity under harsh conditions. The cartridge provides superior flow rates and >25% more dirt holding capacity and fewer change-out than the industry norm. The multi-layer feature provides built-in prefiltration that extends filter life and resists unloading of contaminants as pressure differential increases.

Application

- Acids & Bases
- Blood Serum
- Ink
- Food and Beverage Processing
- Pharmaceuticals
- Etch Baths
- Fine and specialty chemicals
- Biological
- Plating Baths

IFP-CRT-PP-M Filter Cartridge with different End Modification

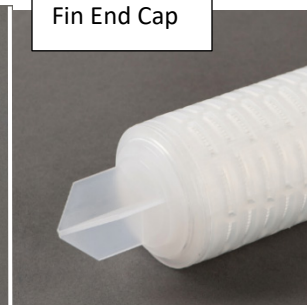
Cartridges are available in the following lengths:

- 10 – Inch
- 20 – Inch
- 30 – Inch
- 40 – Inch



Nominal 10-inch cartridge

Fin End Cap



226 O-Ring



222 O-Ring



DOE End Cap





Technical Data Sheet

Popular Configuration:

Part Number	End Modification	Standard O-Ring
CRT- PP -__ - M_____ - A2S	222 O-Rings, Flat	Silicone
CRT- PP -__ - M_____ - A3S	222 O-Rings, Fin	Silicone
CRT- PP -__ - M_____ - A6S	226 O-Rings, Fin	Silicone
CRT- PP -__ - M_____ - A7S	226 O-Rings, Flat	Silicone
CRT- PP -__ - M_____ - A0S	Double Open Ended (DOE)	Silicone
❖ The blank spaces are for filter length and custom micron rating combination.		

PP Micron Rating (Triple Layer is offered in any THREE micron rating combination:

Element Length Code	Micron Rating Code
	002: 0.2 µm
	004: 0.45 µm
10: 10-Inch	006: 0.65 µm
20: 20-Inch	010: 1.0 µm
30: 30-Inch	030: 3.0 µm
40: 40-Inch	050: 5.0 µm
	100: 10.0 µm

Popular Micron Rating Combination :

- 5.0 µm / 1.0 µm / 0.65 µm
- 10.0 µm / 5.0 µm / 1.0 µm
- 10.0 µm / 3.0 µm / 0.45 µm

Materials of Construction

Filter Media: Multi Polypropylene Nano Fiber
 Core: Reinforce Polypropylene
 Support: Polypropylene
 End Caps: Polypropylene

Effective Filtration Area:

> 4.5 ft² (> 0.4 m²) PER 10-Inch Cartridge Element



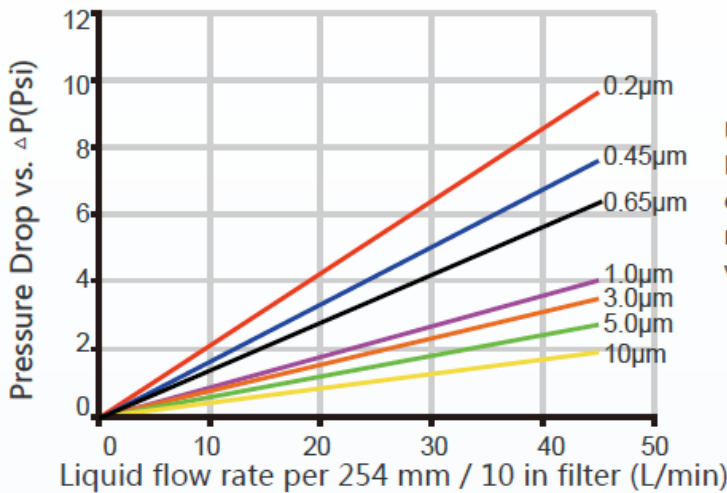
Nominal Dimensions:

Lengths: 10.0 inch (25.4 cm), 20.0 inch (50.8 cm), 30.0 inch (76.2 cm) and 40.0 inch (101.6 cm)
 Inside Diameter: 1.3" (33mm)
 Outside Diameter: 2.67" (68mm)

Operating Conditions:

Maximum Differential Pressure: 5.5 bar (80 psi) at 69.8°F/21°C
 3.4 bar (50 psid) at 150.8°F/66°C
 Maximum Operating Temperature: 176°F/80°C ≤ 2.4 Bar (35 psid)

Pressure and Flow Rate:



Unit conversion : 1bar=14.5Psi
 Flow rate is for a 25.4cm (10inch) cartridge. For liquids other than water, multiply differential pressure by fluid viscosity (cP)

Filtration Efficiency:

≥ 99.98%

Regulatory Compliance:

The filters are constructed with polypropylene resins and filtration media in compliance with 21CFR Part 177 of the US Code of Federal Regulations and USP Class VI Biological Test for Plastic

Material Compliance:

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.

Sterilization:

The filters can be steam sterilize at 121°C (250°F) for 30 minutes.

Flushing Criteria:

The filter cartridges can be flushed with pyrogens-free water (filtered down to 0.05 µm). Once flushed, the filter cartridges are dried before packaging.



Special Configuration:

Size Option:

- 10-inch [Filtration Area: 7.53 ft²]
- 20-inch [Filtration Area: 15.06 ft²]
- 30-inch [Filtration Area: 22.59 ft²]
- 40-inch [Filtration Area: 30.12 ft²]

Micron Rating Option:

- 0.2 µm
- 0.45 µm
- 0.65 µm
- 1.0 µm
- 3.0 µm
- 5.0 µm
- 10.0 µm
- 25.0 µm

Seal Option:

- Silicone
- Viton
- NBR
- EPDM
- Teflon Encapsulated Viton
- Teflon Encapsulated Silicone

End Modification:

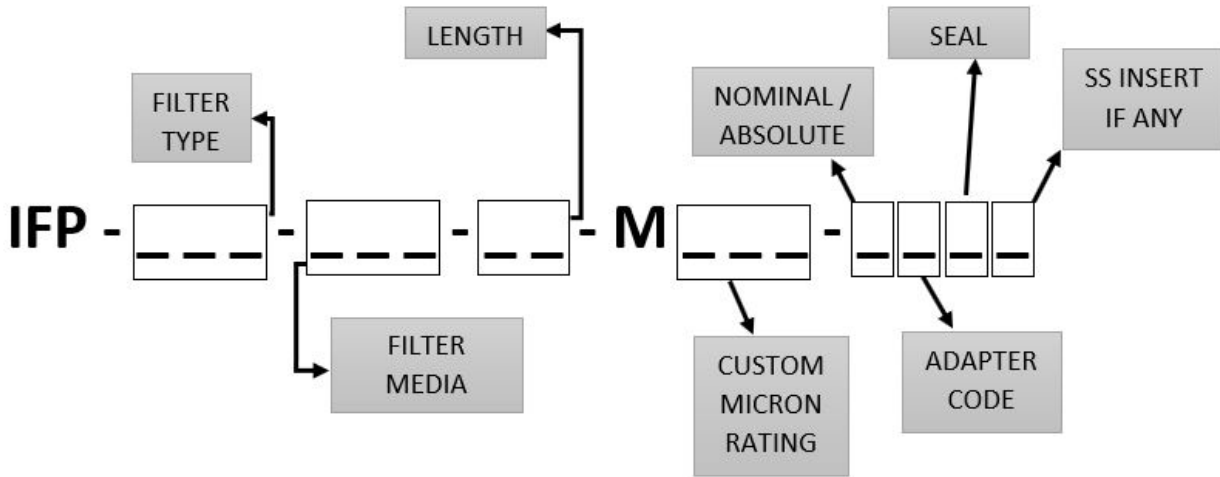
- 222 O-Rings, Flat
- 222 O-Rings, Fin
- 226 O-Rings, Flat
- 226 O-Rings, Fin
- 222 O-Rings, Fin with 316L SS Insert
- 226 O-Rings, Fin with 316L SS Insert
- DOE Flat Gasket





Ordering Information:

FILTER PART NUMBER



Filter Type	Filter Material	Length	Micron Rating	Absolute / Nominal	End Modification Code	Seal	Insert
CRT: Cartridge	PP: Polypropylene	10: 10-Inch 20: 20-Inch 30: 30-Inch 40: 40-Inch	M + Custom Micron Rating Combination Available Micron Rating 002: 0.2 µm 004: 0.45 µm 006: 0.65 µm 010: 1.0 µm 030: 3.0 µm 050: 5.0 µm 100: 10.0 µm 150: 15.0 µm 250: 25.0 µm	A: Absolute N: Nominal	0: DOE 2: 222/Flat 3: 222/Fin 6: 226 Fin 7: 226/Flat	S: Silicone E: EPDM V: Viton N: NBR F: Teflon	5: SS Insert

