



IFP Absolute DP Filter Cartridge

IFP Absolute DP Filter Cartridge uses FDA approved raw materials and offers economical solutions for a variety of requirements with its excellent filtration efficiency and chemical compatibility across a wide range of liquid process applications. This type of cartridge is constructed of depth polypropylene media and nonwoven or silk net support and is ideal for removing agglomerated particles and gels. The high surface area of these filters ensures long service life and low initial pressure drops. All cartridge hardware components are high purity polypropylene materials for use in critical process applications. The deep and wide pleats provide extended service in liquids with a high level of suspended solids and are designed for reverse flow cleaning. The cartridges are constructed to optimized consistent performance under variation inflow.

Application

- Acids & Bases
- RO Pretreatment
- Food and Beverage Processing
- Product Sterilization
- Solvent Filtration
- Etch Baths
- High Purity Chemicals
- Chemical Mechanical Polishing
- Plating Baths

IFP DP Filter Cartridge with different End Modification





Technical Data Sheet

Popular Configuration:

Part Number	End Modification	Standard O-Ring
CRT- DP -__ -___ - N2S	222 O-Rings, Flat	Silicone
CRT- DP -__ -___ - N3S	222 O-Rings, Fin	Silicone
CRT- DP -__ -___ - N6S	226 O-Rings, Fin	Silicone
CRT- DP -__ -___ - N7S	226 O-Rings, Flat	Silicone
CRT- DP -__ -___ - NOS	Double Open Ended (DOE)	Silicone
❖ The blank spaces are for filter length micron rating code. Find the codes below.		

PP Micron Rating:

Element Length Code	Micron Rating Code
	001: 0.1 µm
	002: 0.2 µm
10: 10-Inch	004: 0.45 µm
20: 20-Inch	006: 0.65 µm
30: 30-Inch	010: 1.0 µm
40: 40-Inch	050: 5.0 µm
	100: 10.0 µm
	200: 20.0 µm

Materials of Construction

Filter Media: Depth Polypropylene
 Inner Support Core: Polypropylene
 Outer Protection Cage: Polypropylene
 End Caps: Polypropylene

Effective Filtration Area:

6.9 ft² (0.65 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)



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Operating Conditions:

Maximum Differential Pressure: 5.0 bar (75 psi) at 69.8°F/21°C
 2.0 bar (29 psid) at 150.8°F/66°C
 Recommended Change Out Differential Pressure: 2.4 Bar (35 psid)
 Maximum Operating Temperature: 248°F/120°C ≤ 2.4 Bar (35 psid)

Efficiency:

< 70%

Flow Rate:

The filters are tested with pure water at 20°C [per 10-inch cartridge]

Pore Size	Flow Rate	Pressure Drop
0.1 µm	3 L/min	1.0 bar (14.5 psi)
0.2 µm	5 L/min	1.0 bar (14.5 psi)
0.45 µm	8 L/min	1.0 bar (14.5 psi)
0.65 µm	10 L/min	1.0 bar (14.5 psi)
1.0 µm	12 L/min	1.0 bar (14.5 psi)
5.0 µm	15 L/min	1.0 bar (14.5 psi)
10.0 µm	17 L/min	1.0 bar (14.5 psi)
20.0 µm	20 L/min	1.0 bar (14.5 psi)

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.



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:

- 0.1 µm
- 0.2 µm
- 0.45 µm
- 0.65 µm
- 1.0 µm
- 5.0 µm
- 10.0 µm
- 20.0 µm

Seal Option:

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

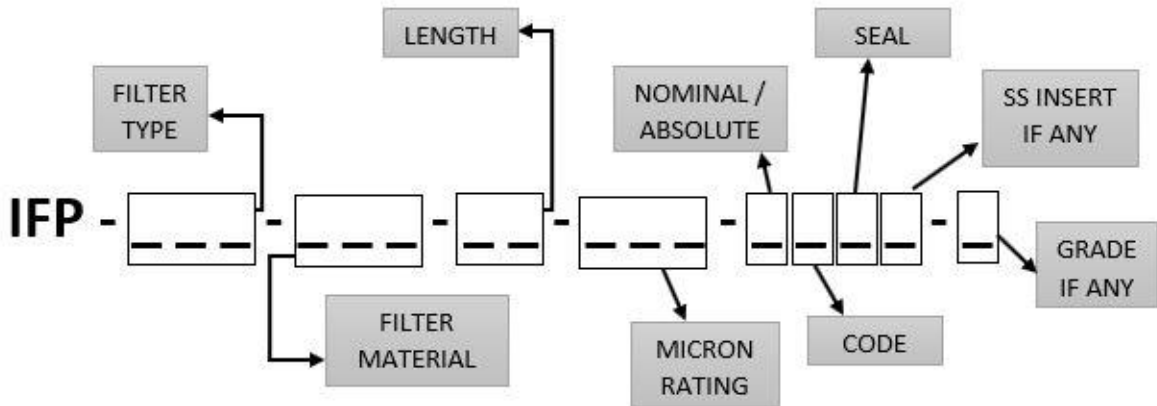
End Modification:

- 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	DP: Depth Polypropylene	10: 10-Inch 20: 20-Inch 30: 30-Inch 40: 40-Inch	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 250: 25.0 µm	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