



# HF Series Filter Cartridge

## DD PROCESS PRODUCTS

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### Features and Benefits

- ◆ High surface area, resulting in low pressure loss and excellent dirt holding capacity

The cartridges have a large diameter, reduces the number of filters and size of housing required. Maximum 50% reduction of filter system.

- ◆ Very high flow rates per filter cartridge

- ◆ Wide chemical compatibility

Materials meet US FDA title 21.

Could be used in the solvent which PH value is 1 to 13.

- ◆ 100% thermally welded construction for maximum integrity and strength, up to 1538mm (60 inch)

20 inch, 40 inch and 60 inch lengths are available.

- ◆ Inside to outside flow configuration

All contaminants could be caught within the single open ended filter cartridge.



### Specifications

- ◆ Materials of Construction

Filter media: Pleated depth polypropylene (PP)  
Melt blown polypropylene (MP)  
Support/Drainage: Polypropylene  
Cage, Core & End Cap: Glass fiber reinforced Polypropylene  
O-ring: EPDM, Nitrile

- ◆ Cartridge Dimensions

Outer Diameter: 6inch(152mm) without cage  
160mm with cage

20 inch - 528 mm

40 inch - 1022 mm

60 inch - 1538 mm

- ◆ Effective Filtration Area

PP: 13 m<sup>2</sup> per 40 inch

MP: 8 m<sup>2</sup> per 40 inch

- ◆ Nominal Micron

1, 2, 4.5, 6, 10, 20, 50, 70, 100 um

- ◆ Operating Conditions

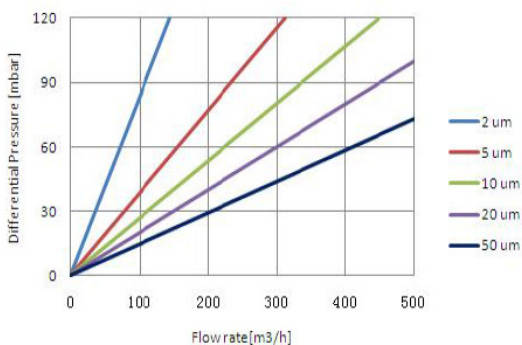
Max. operating temperature: PP: 82°C (180°F)  
MP: 65°C (149°F)  
Max. differential pressure: PP: 3.4 bar at 82°C / 50 psid at 180°F  
MP: 1.1 bar at 65°C / 16 psid at 149°F  
Nominal flow direction: Inside to outside  
Recommended change out differential pressure:<sup>\*1</sup> 2.4 bar at 20°C / 34.8 psid at 68°F  
Maximum flow of water: 20 inch: 660 L/min  
40 inch: 1300 L/min  
60 inch: 1900 L/min

<sup>\*1</sup> We recommend that HF series filters are changed at a differential pressure of 2.4 bar in normal service - the operating conditions above should be treated as maximum differential pressures for short term use without breaking the filter.

### Typical Applications

- Cooling water, pre-RO, UV protection, Sea water desalination, Resin trap
- Polymers, Acids, Bases, Solvents in Chemical industry
- APIs, Solvents and Raw water supplies in BioPharm industries
- Bottled water, Wines, Beers, Soft drinks and milks
- Paints and coatings, Petrochemical, Refineries
- Semi-Conductor, LCD display, Discs

### Typical Water Flow Rates @ 20°C (20" PP)



### Typical Water Flow Rates @ 20°C (20" MP)

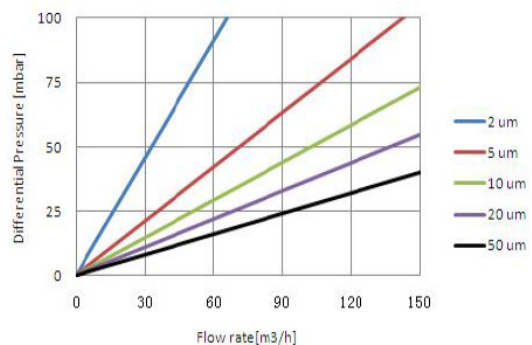


Table 1: ORDER INFORMATION

Grade	Product	Media Type	Micron	Length	O-ring	Cage Structure
P - PHARMACEUTICAL	HF	PP - Pleated PP	100 - 1um	20 - 20 inch	E - EPDM	B - Band
F - FOOD & BEVERAGE		MP - Melt Blown PP	200 - 2um	40 - 40 inch	N - Nitrile	C - Polypropylene Cage
E - ELECTRICAL			450 - 4.5um	60 - 60 inch		
			600 - 6um			
			1000 - 10um			
			2000 - 20um			
			5000 - 50um			
		7000 - 70um				
<b>How to Order? - Example</b> Food & Beverage grade Pleated PP media 2 um, 40inch length O-ring: EPDM, without cage(band) Selection Code is: FHFPP20040EB						