



## Emflon® PF Filter



### Description

The Emflon PF filter is an all fluoropolymer cartridge, utilizing pleated filter medium for the filtration of aggressive process fluids.

- Excellent compatibility
- All fluoropolymer construction
- High temperature and pressure capabilities
- Very high flow rates
- Low differential pressure
- Low extractables
- Manufactured in a cleanroom environment
- 100% integrity tested
- Unique cartridge core provides exceptionally high resistance to collapse at 185°C

### Specifications

#### Materials

- Medium: PTFE
- Core, cage, and end caps: High purity PFA
- Support and drainage: FEP bonded PTFE
- Sealing methods: Melt seal patented process
- O-ring options: FEP encapsulated fluoroelastomer, Kalrez<sup>1</sup> and Chemraz<sup>2</sup>

#### Removal Ratings

- 10 µm, 5 µm, 1 µm, 0.2 µm, 0.1 µm, 0.05 µm

#### Filter Areas

##### AB Style

- 10" / 245 mm: 6 ft<sup>2</sup> / 0.56 m<sup>2</sup>
- 4" / 102 mm: 2.6 ft<sup>2</sup> / 0.24 m<sup>2</sup>

##### Junior Style (MPF)

- 2230: 0.75 ft<sup>2</sup> / 0.07 m<sup>2</sup>
- 4463: 1.8 ft<sup>2</sup> / 0.17 m<sup>2</sup>

#### Configurations

##### AB Style

- Nominal length: 10" / 254 mm,  
Diameter: 2.75" / 70 mm  
O-ring size/end caps: Code 3  
(222 double O-ring/flat end)

##### Junior Style (MPF)

- Nominal Length:  
2230: 2.5" / 64mm  
4463: 5.4" / 137mm
- Diameter: 2.25" / 57mm
- O-ring size/endcaps:  
• 2230 (116 internal/flat end)  
• 4463 (116 internal/flat end)

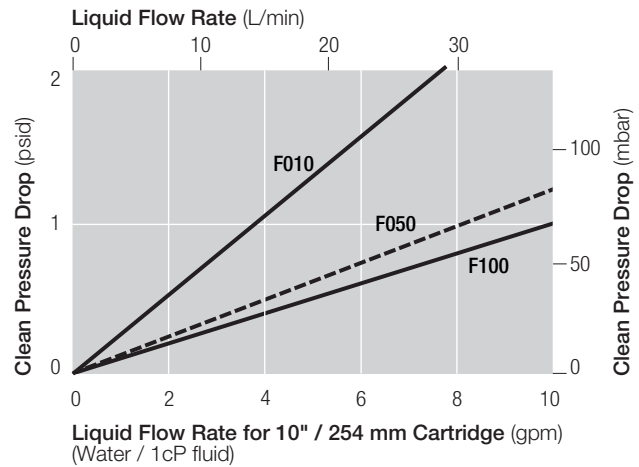
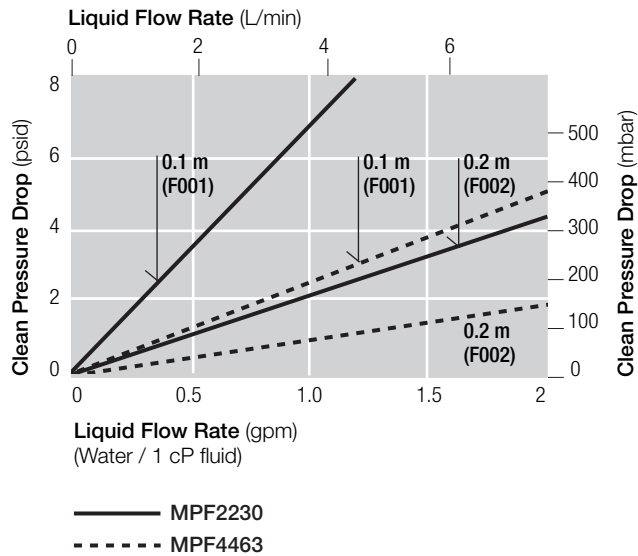
### Operating Conditions

- Maximum Operating Temperature: 365°F / 185°C
- Maximum Forward Differential Pressure: 100 psid @ 120°F / 6.9 bar @ 50°C; 60 psid @ 121° – 230°F / 4.1 bar @ 51° – 110°C; 35 psid @ 231° – 335°F / 2.4 bar @ 111° – 170°C; 20psid @ 335° – 368°F / 1.4 bar @ 170° – 185°C
- Maximum Reverse Differential Pressure: 50 psid @ 68°F / 3.4 bar @ 20°C

<sup>1</sup> Kalrez is a registered trademark of DuPont Dow Elastomers

<sup>2</sup> Chemraz is a registered trademark of Greene Tweed and Co.

## Pressure Drop vs. Liquid Flow Rate<sup>3</sup>



<sup>3</sup> For liquids with viscosity differing from water, multiply the pressure drop by the viscosity in centipoise.

## Part Numbers / Ordering Information

Part Number <sup>4</sup>	Removal Rating (µm)	Nominal Length (in / mm)	Configuration Code	O-Ring Material <sup>5</sup>
AB1F1003EH1 <sup>4</sup>	10.0	10 / 254	3	FEP encapsulated fluoroelastomer
AB1F0503EH1 <sup>4</sup>	5.0	10 / 254	3	FEP encapsulated fluoroelastomer
AB1F0103EH1 <sup>4</sup>	1.0	10 / 254	3	FEP encapsulated fluoroelastomer
AB04F0023EH1	0.2	4 / 102	3	FEP encapsulated fluoroelastomer
MPF2230F002EH1	0.2	2.5 / 64	2230	FEP encapsulated fluoroelastomer
MPF4463F002EH1	0.2	5.5 / 140	4463	FEP encapsulated fluoroelastomer
MPF4463F002EH11	0.2	5.5 / 140	4463	Kalrez <sup>5</sup>
MPF2230F001EH1	0.1	2.5 / 64	2230	FEP encapsulated fluoroelastomer

<sup>4</sup> The above filter configurations are also available in 20" / 508 mm, 30" / 762 mm, and 40" / 1016 mm lengths.

These can be ordered by changing the third digit in the part number to a 2, 3 or 4 respectively.

<sup>5</sup> Other O-ring materials are available.

**Unit conversion:** 1 bar = 100 kilopascals



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