



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: PFA 440HP
- Support and drainage: FEP bonded PTFE
- Sealing methods: Melt seal patented process
- O-ring options: FEP encapsulated fluoroelastomer, Kalrez¹ and Chemraz²

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 ft² / 0.56 m²
- 4" / 102 mm: 2.6 ft² / 0.24 m²

Junior Style (MPF)

- 2230: 0.75 ft² / 0.07 m²
- 4463: 1.8 ft² / 0.17 m²

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)

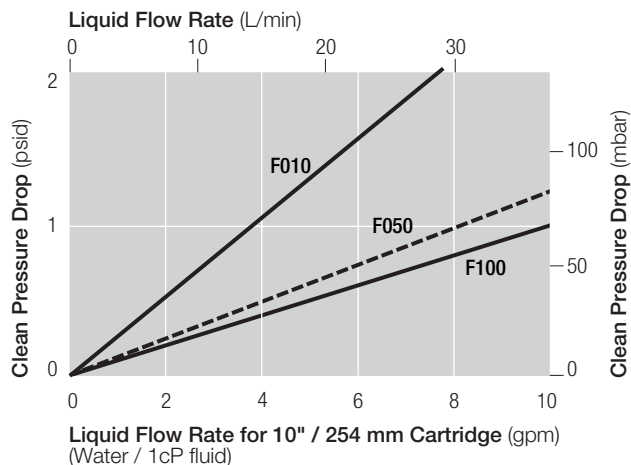
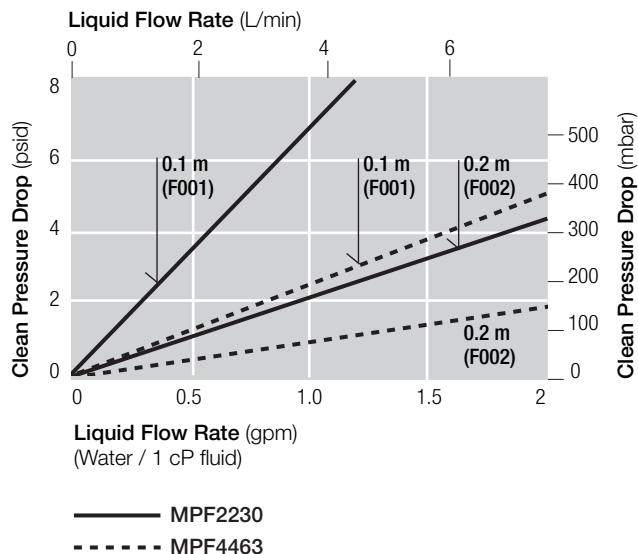
Operating Conditions

- 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

¹ Kalrez is a registered trademark of DuPont Dow Elastomers

² Chemraz is a registered trademark of Greene Tweed and Co.

Pressure Drop vs. Liquid Flow Rate³



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

Part Numbers / Ordering Information

Part Number ⁴	Removal Rating (µm)	Nominal Length (in / mm)	Configuration Code	O-Ring Material ⁵
AB1F1003EH1 ⁴	10.0	10 / 254	3	FEP encapsulated fluoroelastomer
AB1F0503EH1 ⁴	5.0	10 / 254	3	FEP encapsulated fluoroelastomer
AB1F0103EH1 ⁴	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 ⁵
MPF2230F001EH1	0.1	2.5 / 64	2230	FEP encapsulated fluoroelastomer

⁴ 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.

⁵ Other O-ring materials are available.

Unit conversion: 1 bar = 100 kilopascals



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