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Microelectronics

Emflon® PF Filter



Description

The Emflon PF filter has an all fluoropolymer construction utilizing pleated filter media. It is designed for the filtration of aggressive process fluids.

- Excellent compatibility •
All fluoropolymer construction
- High temperature and pressure capabilities •
Integrity testable •
Two configurations available
- Optimized design •
High flow rates •
Low extractables •
Manufactured in a cleanroom environment
- 100% integrity tested

Specifications

Materials

- Medium: PTFE •
Core, cage, and end caps: PFA 440 HP
- Support and drainage: FEP bonded PTFE •
Sealing methods: Patented melt seal process •
O-ring options: Teflon¹ encapsulated Viton¹ and Kalrez¹
- Stainless steel outer ring on 4463

Removal Ratings

- 1 µm, 0.2 µm, 0.1 µm, 0.05 µm

Filter Areas

- 0.07 m² / 0.75 ft² per 2230 cartridge
- 0.17 m² / 1.8 ft² per 4463 cartridge

Configurations

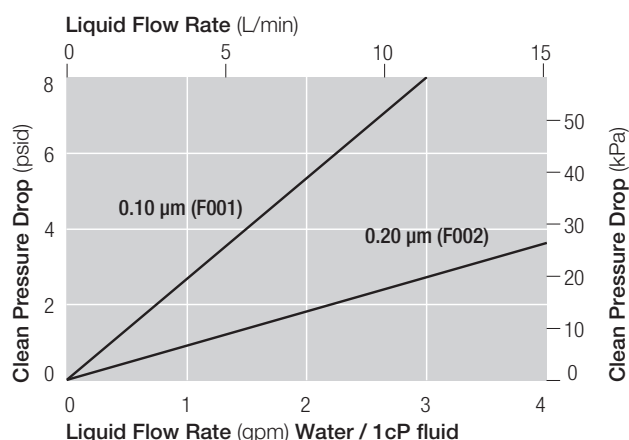
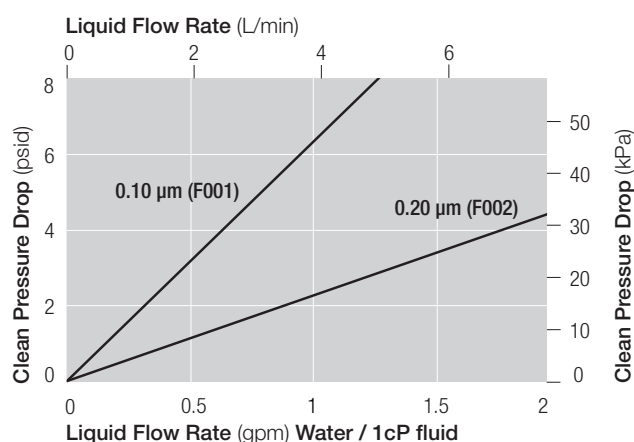
- Nominal length: 64 mm / 2.5 in and 137 mm / 5.4 in
- Diameter: 57 mm / 2.25 in
- O-ring size / end caps:
2230 (116 internal / flat end)
4463 (116 internal / flat end)

Operating Conditions

- Maximum operating temperature: 185°C / 365°F
- Maximum forward differential pressure:
0.69 MPa @ 50°C / 100 psid @ 120°F;
0.41 MPa @ 51°-110°C / 60 psid @ 121°- 230°F;
0.24 MPa @ 111°- 170°C / 35 psid @ 231°- 335°F;
0.14 MPa @ 170°- 185°C / 20 psid @ 335°- 365°F

¹ Viton, Teflon and Kalrez are registered trademarks of E. I. du Pont de Nemours and Company

Pressure Drop vs. Liquid Flow Rate*



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

Part Numbers / Ordering Information

Part Number	Removal Rating (µm)	Nominal Length (mm / in)	O-Ring Size / Endcap	O-Ring Material ²
MPF2230F010EH1	1	64 / 2.5	116 / Flat End	Teflon Encapsulated Viton
MPF4463F010EH1	1	137 / 5.5	116 / Flat End	Teflon Encapsulated Viton
MPF2230 F002 EH1	0.2	64 / 2.5	116 / Flat End	Teflon Encapsulated Viton
MPF4463 F002 ESTH1 ³	0.2	137 / 5.5	116 / Flat End	Teflon Encapsulated Viton
MPF4463 F002 ESTH11 ³	0.2	137 / 5.5	116 / Flat End	Kalrez
MPF2230 F001 EH1	0.1	64 / 2.5	116 / Flat End	Teflon Encapsulated Viton
MPF2230 F0005 EH11	0.05	64 / 2.5	116 / Flat End	Kalrez

² Other O-ring materials are available.

³ These cartridges contain an outer stainless steel ring on the adaptor end.

Unit conversion: 100 kilopascals = 1 bar

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