



Emflon® PF Filter



Description

The Emflon® PF filter is an all fluoro-polymer pleated filter designed for 0.3 nanometer (0.003 μm) filtration of bulk aggressive process gases.

- All fluoropolymer construction
- Available in 5", 10", 20", and 30" configurations
- High temperature and pressure capabilities
- Optimized cartridge design
- High flow rates vs. differential pressure
- Manufactured in a cleanroom environment
- 100% integrity tested

Specifications

Materials

- Media: PTFE
- Core, cage, and end caps: PFA 440HP
- Support and drainage: PTFE
- Sealing method: Melt seal patented process
- O-ring: FEP encapsulated fluoroelastomer

Removal Rating

- 0.003 μm

Filter Areas

- 4" / 102 mm: 2.5 ft² / 0.23 m²
- 10" / 254 mm: 6 ft² / 0.56 m²

Configurations

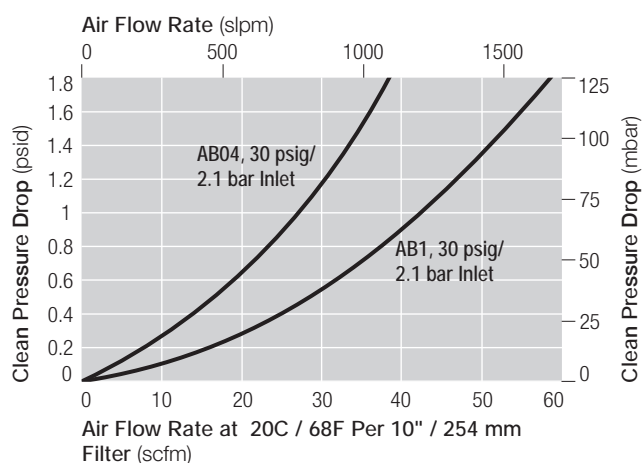
- Nominal length: 4" / 102 mm and 10"/254 mm
- Diameter: 2.75" / 70 mm
- O-ring size/end caps:
 - Code 3 (222 double O-ring/flat end)
 - Code 15 (226 double O-ring bayonet lock/flat end)

Operating Conditions

Maximum Operating Pressure:

- Maximum Operating Temperature: 365°F/185°C
- Maximum Forward Differential Pressure:
 - 100 psid @ 120°F / 6.9 bar @ 50°C;
 - 60 psid @ 230°F / 4.1 bar @ 110°C;
 - 35 psid @ 231°- 335°F / 2.4 bar @ 170° C

Pressure Drop vs. Gas Flow Rate



Cartridge Styles AB1 and AB04

Part Numbers / Ordering Information

Part Number	Removal Rating (μm)	Nominal ² Length (in / mm)	Configuration Code	O-Ring Material ²
AB04F0023EH1	0.003 μm	4 / 102	3	FEP encapsulated fluoroelastomer
AB1F00215EH1	0.003 μm	10 / 254	15	FEP encapsulated fluoroelastomer

² Other length and O-ring material options available.

Unit conversion: 1 bar = 100 kilopascals



Microelectronics

2200 Northern Boulevard
East Hills, New York 11548-1289 USA

1.800.360.7255 toll free (Only in US)
1.516.484.5400 phone
1.516.625.3610 fax

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