Emflon® Filter

Description

Emflon® filter elements are designed for ≥ 3 nanometer (0.003 µm) filtration of bulk gas applications found in the semiconductor industry.

- Wide variety of applications
- High particle retention
- High flow rates vs. differential pressure
- Optimized cartridge design
- Manufactured in a cleanroom environment
- 100% integrity tested

Specifications

Materials

- Medium: PTFE
- Core, cage, and end caps: Polypropylene
- Support and drainage: Polypropylene
- O-rings: Viton[1] and Teflon[1] encapsulated Viton

Removal Rating

- ≥ 0.003 µm

Filter Area

- 10" / 254 mm: 9.45 ft^2 / 0.88 m^2

Configurations

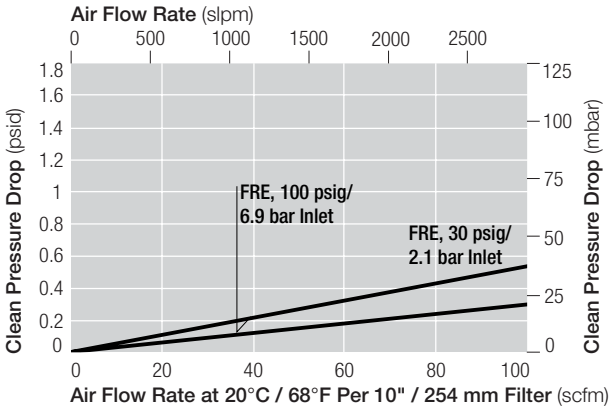
- Nominal length: 10" / 254 mm, 20"/508 mm, 30" / 762 mm and 40"/1016 mm
- Diameter: 2.75" / 70 mm
- O-ring size/end caps:
  Code 3 (222 double O-ring/flat end)
  Code 8 (222 double O-ring/finned end)
  Code 7 (226 double O-ring bayonet lock/finned end)

Operating Conditions

- Maximum Temperature: 194°F/90°C
- Maximum Forward Differential Pressure:
  80 psid @ 120°F/5.5 bar @ 50°C;
  50 psid @ 194°F/3.5 bar @ 90°C

[1] Teflon and Viton are trademarks of DuPont Dow Elastomers

Pressure Drop vs. Gas Flow Rate



Cartridge Style AB1

Part Numbers / Ordering Information

Part Number	Nominal Length (in / mm)	Configuration Code	O-Ring Material[2]
AB1FR3EH1	10 / 254	3	Teflon Encapsulated Viton
AB1FR3EHF	10 / 254	3	Viton
AB1FR7EH1	10 / 254	7	Teflon Encapsulated Viton
AB1FR7EHF	10 / 254	7	Viton
AB1FR8EH1	10 / 254	8	Teflon Encapsulated Viton
AB1FR8EHF	10 / 254	8	Viton
AB2FR3EH1	20 / 508	3	Teflon Encapsulated Viton
AB2FR3EHF	20 / 508	3	Viton
AB2FR7EHF	20 / 508	7	Viton
AB2FR8EHF	20 / 508	8	Viton
AB3FR3EH1	30 / 762	3	Teflon Encapsulated Viton
AB3FR3EHF	30 / 762	3	Viton
AB3FR7EHF	30 / 762	7	Viton
AB3FR8EHF	30 / 762	8	Viton
AB4FR3EHF	40 / 1016	3	Viton
AB4FR7EHF	40 / 1016	7	Viton
AB4FR8EHF	40 /1016	8	Viton

[2] Other O-ring material options available.

Unit conversion: 1 bar = 100 kilopascals

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