

Fluoryte™ High Flow Filter



Description

- Excellent flow characteristics
- Proprietary, binder-free, nonwoven PTFE support material
- Highest purity PFA fluoropolymer hardware
- Low extractables for reduced contamination
- UHP grade available
- Vacuum packaged in a certified cleanroom
- Exceptional chemical and temperature resistance
- Lengths to fit competitive housings
- Prewet options available

Specifications

Materials

- Medium: High porosity expanded PTFE
- Hardware: High purity PFA
- Support: Nonwoven, binder-free PTFE
- Sealing: Thermal bond

Removal Ratings

- 0.45 μm , 0.2 μm , 0.1 μm , 0.05 μm

Configurations

- Nominal length: 4" / 102 mm, 9" / 227 mm, 10" / 254 mm, 20" / 508 mm, 30" / 762 mm, consult factory for 40" / 1026 mm length
- Diameter: 2.75" / 70 mm

Operating Conditions

Maximum Operating Temperature:

- 365°F / 185°C

Maximum Forward Differential Pressure:

- 100 psid @ 122°F / 6.9 bar @ 50°C

Integrity Test Values¹

- 0.05 μm , 10" / 254 mm segment at 20 psig / 1.4 bar, $\leq 60 \text{ cm}^3 / \text{min}$
- 0.1 μm , 10" / 254 mm segment at 15 psig / 1 bar, $\leq 40 \text{ cm}^3 / \text{min}$
- 0.2 μm , 10" / 254 mm segment at 10 psig / 0.7 bar, $\leq 40 \text{ cm}^3 / \text{min}$
- 0.45 μm , 10" / 254 mm segment at 5 psig / 0.4 bar, $\leq 10 \text{ cm}^3 / \text{min}$

¹ Test fluid used is 60/40 IPA: DI H₂O

Prewetting Procedures

PTFE is a naturally hydrophobic media. If filtering a high surface tension solution, it is necessary to prewet the FLHF cartridge. Please refer to our prewetting procedures located at the end of the Chemicals Introduction section of the Pall Microelectronics Catalog for proper prewetting recommendations.

Part Numbers / Ordering Information

FL HF ■ ▼ ● ◆ ★ ▲

| Code FL | FluorYTE Cartridge | Code HF | High Flow |
|---------|--------------------|---------|-----------|
|---------|--------------------|---------|-----------|

| Code ■ | Removal Ratings in Microns (µm) | Code ▼ | Grade |
|--------|---------------------------------|--------|--|
| 050 | 0.05 | Blank | Standard |
| 100 | 0.1 | E | UHP Grade (Reference Technical Bulletin #1077-T.) |
| 200 | 0.2 | | |
| 450 | 0.45 | | |

| Code ● | Cartridge Lengths (nominal) |
|--------|---------------------------------|
| 04 | 4" / 102 mm (standard) |
| 09 | 9" / 227 mm (standard) |
| 10 | 10" / 254 mm (standard) |
| 20 | 20" / 508 mm (standard) |
| 30 | 30" / 762 mm (standard) |
| 40 | 40" / 1016 mm (consult factory) |

| Code ◆ | End Configurations |
|--------|---|
| M3 | SOE flat closed end external 222 O-rings |
| M6 | SOE flat closed end external 226 O-rings |
| M7 | SOE extended cap end external 226 O-rings |
| M8 | SOE extended cap end external 222 O-rings |

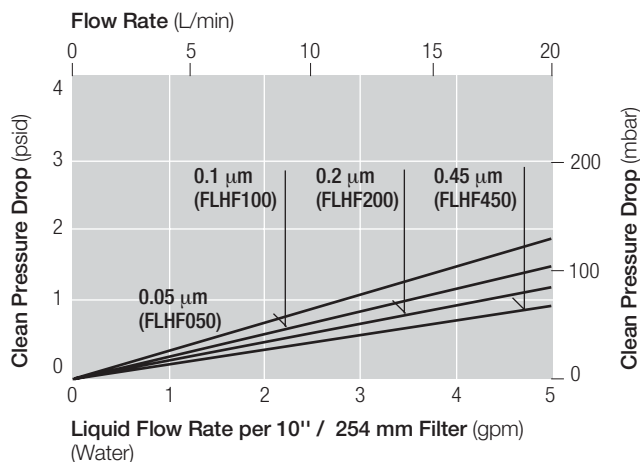
| Code ★ | O-ring Materials | Code ▲ | Prewet |
|--------|-------------------------------------|--------|--------------------------------|
| F | FEP Encapsulated Viton A (standard) | PW | 4" / 102 mm (standard) |
| K | Kalrez ² | PW | 9" / 227 mm (standard) |
| C | Chemraz ³ | PW | 10" / 254 mm (standard) |
| E | EPDM | PW | 20" / 508 mm (standard) |
| S | Silicone | PW | 30" / 762 mm (consult factory) |
| V | Viton ² A | | |

² Kalrez and Viton are trademarks of DuPont Dow Elastomers.

³ Chemraz is a trademark of Greene, Tweed & Co.

Unit conversion: 1 bar = 100 kilopascals

Pressure Drop vs. Liquid Flow Rate⁴



⁴ For liquids with viscosity differing from water, multiply the pressure drop by the viscosity in centipoise.



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