



## Fluoryte™ High Flow Filter



### Description

The Pall Fluoryte™ High Flow Filter is an all fluoropolymer<sup>1</sup> cartridge. The filter cartridge uses the latest generation of high permeability proprietary PTFE membranes. The filter media encapsulation design was developed using Pall's unique computer aided design modeling system. This advanced fluid dynamics design provides enhanced lateral flow across, through and out of the membrane. The unrestricted fluid passage allows the high permeability property of the membrane to be fully utilized. The result is improved flow rates and extended service life over conventional filter media corrugation and support methods, including those that use more area or variable pleat size combinations.

- Excellent flow performance
- Proprietary PTFE nonwoven flow promotion layers
- Excellent chemical and temperature resistance
- High purity PFA hardware
- All Fluoropolymer construction
- 100% Integrity tested
- Prewet and acid washed options

### Specifications

#### Materials

- Medium: PTFE
- Hardware: High Purity PFA
- Support and drainage: PTFE
- O-ring options: Teflon<sup>2</sup> encapsulated fluoroelastomer, Kalrez<sup>2</sup>

#### Removal Rating

- 1.0 µm, 0.45 µm, 0.2 µm, 0.1 µm, 0.05 µm

#### Configurations

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

O-ring size / end caps: Code 3 (222 double O-ring / flat end), Code 8 (222 double O-ring / extended cap end), Code 6 (226 double O-ring / flat end), Code 7 (226 double O-ring / extended cap end)

#### Filter Area

254 mm / 10" 0.84 m<sup>2</sup> / 9 ft<sup>2</sup>

#### Operating Conditions

- Maximum Operating Temperature: 185° C / 365° F
- Maximum Forward Differential Pressure: 0.69 MPa @ 50° C / 100 psid @ 122° F

### Integrity Test Values<sup>3</sup>

- 0.05 µm, 254 mm / 10" segment at 0.14 MPa (20 psig), 60 cm<sup>3</sup> / min
- 0.1 µm, 254 mm / 10" segment at 0.1 MPa (15 psig), 40 cm<sup>3</sup> / min
- 0.2 µm, 254 mm / 10" segment at 0.069 MPa (10 psig), 40 cm<sup>3</sup> / min
- 0.45 µm, 254 mm / 10" segment at 0.035 MPa (5 psig), 10 cm<sup>3</sup> / min

### Prewetting Procedures

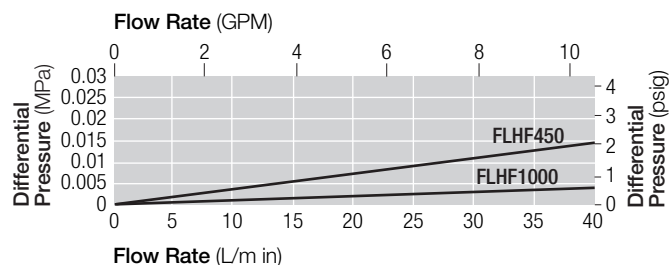
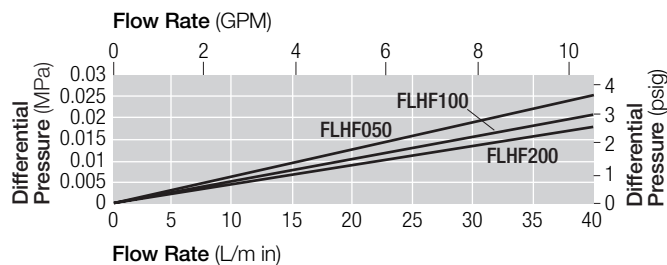
PTFE is a naturally hydrophobic media. If filtering a high surface tension solution, it is necessary to prewet the FLHF cartridge. Please refer to our prewetting procedures located at the end of the Chemicals Introduction section of the Pall Microelectronics Catalog for proper prewetting recommendations.

<sup>1</sup> Exclusive of o-ring seals.

<sup>2</sup> Teflon and Kalrez are trademarks of DuPont Dow Elastomers.

<sup>3</sup> Test fluid used is 60/40 IPA: DI H<sub>2</sub>O.

## Typical Pressure Drop vs. Liquid Flow Rate<sup>4</sup>



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

## Part Numbers / Ordering Information

FL HF ■ ▼ ● ◆ ★ ▲

Code FL	Fluorite 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		
1000	1.0		

Code ●	Cartridge Lengths (nominal)
04	102 mm / 4" (standard)
09	227 mm / 9" (standard)
10	254 mm / 10" (standard)
20	508 mm / 20" (standard)
30	762 mm / 30" (standard)
40	1016 mm / 40" (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 <sup>7</sup> ▲	Prewet
F	FEP Encapsulated fluoroelastomer (standard)	PW	102 mm / 4" (standard)
K	Kalrez <sup>5</sup>	PW	227 mm / 9" (standard)
C	Chemraz <sup>6</sup>	PW	254 mm / 10" (standard)
E	EPDM	PW	508 mm / 20" (standard)
S	Silicone	PW	762 mm / 30" (consult factory)
V	fluoroelastomer		

<sup>5</sup> Kalrez is a trademark of DuPont Dow Elastomers.

<sup>6</sup> Chemraz is a trademark of Greene, Tweed & Co.

<sup>7</sup> The suffix PW following the part number indicates that the filter is pre-wet and packaged with DI water.

Other O-ring materials are available.

For FLHF Kleen-Change<sup>®</sup> Assemblies, please see data sheet number A99.

Unit conversion: 1 MPa = 10 bar



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

Filtration. Separation. Solution.<sup>SM</sup>

Visit us on the Web at [www.pall.com/micro](http://www.pall.com/micro)

Pall Corporation has offices and plants throughout the world in locations including: Argentina, Australia, Austria, Belgium, Brazil, Canada, China, France, Germany, Hong Kong, India, Indonesia, Ireland, Italy, Japan, Korea, Malaysia, Mexico, the Netherlands, New Zealand, Norway, Poland, Puerto Rico, Russia, Singapore, South Africa, Spain, Sweden, Switzerland, Taiwan, Thailand, United Kingdom, United States, and Venezuela. Distributors are located in all major industrial areas of the world.

© Copyright 2004, 2006 Pall Corporation. Pall, PALL are trademarks of Pall Corporation. ® Indicates a Pall trademark registered in the USA. Filtration. Separation. Solution.<sup>SM</sup> is a service mark of Pall Corporation.

E87b