

Fluoryte™ High Flow Filter

Description

The Pall Fluoryte™ High Flow Filter is an all fluoropolymer¹ 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

Materials²

Medium:	PTFE
Hardware:	High Purity PFA
Support and drainage:	PTFE
O-ring options:	FEP encapsulated fluoroelastomer, Kalrez ³

Removal Rating

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

Configurations

Nominal length:	102 mm/4 in, 227 mm/9 in, 254 mm/10 in, 508 mm/20 in, 762 mm/30 in
Diameter:	70 mm/2.75 in
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 in 0.84 m²/9 ft²

Operating Conditions

Maximum Operating Temperature: 185° C/365° F

Integrity Test Values⁴

0.05 µm, 254 mm/10 in segment at
0.14 MPa (20 psig), 60 cm³/min

0.1 µm, 254 mm/10 in segment at
0.1 MPa (15 psig), 40 cm³/min

0.2 µm, 254 mm/10 in segment at
0.069 MPa (10 psig), 40 cm³/min

0.45 µm, 254 mm/10 in segment at
0.035 MPa (5 psig), 10 cm³/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 or at www.pall.com/micro for proper prewetting recommendations.

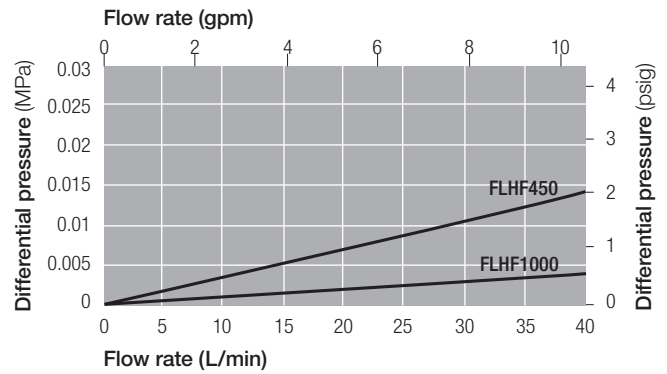
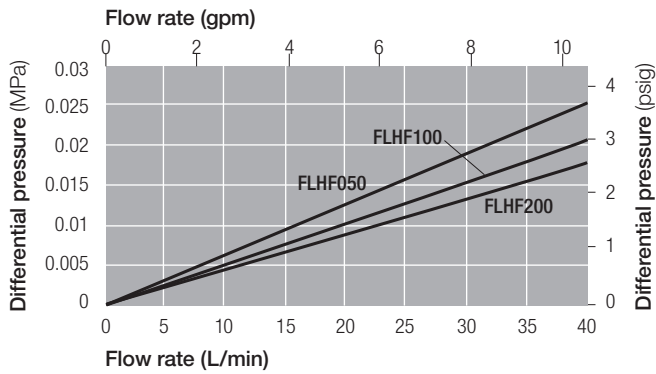
¹ Exclusive of o-ring seals.

² All fluoropolymer materials are PFOA-free

³ Kalrez is a trademark of E. I. du Pont de Nemours and Company

⁴ Test fluid used is 60/40 IPA: DI H₂O.

Typical Pressure Drop vs. Liquid Flow Rate⁵



⁵ For liquids with viscosity differing from water, multiply the pressure drop by the viscosity in centipoise.

Ordering Information

Pall Part Number = FL HF 1 2 3 4 5 6

Table 1

Code	Removal Ratings in Microns (µm)
050	0.05
100	0.1
200	0.2
450	0.45
1000	1.0

Table 2

Code	Grade
E	UHP Grade (Reference Technical Bulletin #1077-T)

Table 4

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

Table 3

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

Table 5

Code	O-ring Materials
F	FEP Encapsulated fluoroelastomer (standard)
K	Kalrez ⁶
C	Chemraz ⁷
E	EPDM
S	Silicone
V	Fluoroelastomer

Table 6

Code ⁸	
None	Dry
PW	Prewet (consult factory)

⁶ Kalrez is a trademark of E. I. du Pont de Nemours and Company

⁷ Chemraz is a trademark of Greene, Tweed & Co.

⁸ 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[®] Assemblies, please see data sheet number A99b.

Unit conversion: 1 MPa = 10 bar



Pall Corporation

Microelectronics

25 Harbor Park Drive
Port Washington, NY 11050
+1 516 484 3600 telephone
+1 800 360 7255 toll free US



Better Lives.
Better Planet.

Visit us on the Web at www.pall.com

Pall Corporation has offices and plants throughout the world. For Pall representatives in your area, please go to www.pall.com/contact

Because of technological developments related to the products, systems, and/or services described herein, the data and procedures are subject to change without notice. Please consult your Pall representative or visit www.pall.com to verify that this information remains valid.

© Copyright 2014, Pall Corporation. Pall, and Fluorite are trademarks of Pall Corporation.

® indicates a trademark registered in the USA. **BETTER LIVES. BETTER PLANET.** and **Filtration. Separation. Solution.SM** are service marks of Pall Corporation.