PALL Microelectronics

VARAFINE™ VFTR Series Filter Cartridges

For Critical Filtration of Solvents and Aggressive Liquids

- Chemically Resistant PTFE Media
- Selection of Retention Ratings of 0.05, 0.1, 0.2, 0.45, or 1.0 µm
- Uniform Pore Size Throughout Membrane For High Contaminant Retention Capacity and Flow Rates
- Pre-Flushed with Ultra Pure DI Water to Ensure Fast Rinse-Up
- Engineered Polymer Components for Enhanced Resistance and Purity
- Optional Pre-Wetting in Ultra High Purity DI Water for Quick Rinse-Up

Performance Specifications

Filter Grades (≥99.9% Retention Rating by Standard Latex Bead Challenge):
0.05, 0.1, 0.2, 0.45, 1.0 µm

Maximum Differential Pressure:
80 psid (5.5 bar) @ 68°F (20°C)
20 psid (1.4 bar) @ 203°F (95°C)

Recommended Changeout Differential Pressure[1]:
35 psid (2.4 bar)

Flow Rate 1.0 psid (0.07 bar), 10" equivalent:
0.05 µm: 2.0 gpm (7.6 lpm)
0.1 µm: 2.4 gpm (9.08 lpm)
0.2 µm: 3.5 gpm (13.25 lpm)
0.45 µm: 7.2 gpm (27.25 lpm)
1.0 µm: 12 gpm (45.42 lpm)

Chemical Compatibility:
Cartridge resists most acids and bases, pH 1-14, and most oxidizing agents. Consult factory for specific application information.

Product Specifications

Materials of Construction:

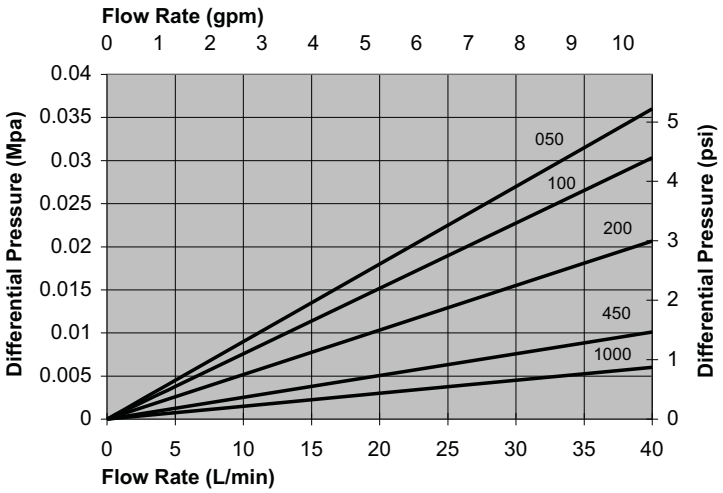
Filter Media:	PTFE (polytetrafluoroethylene)
Support Material:	Polypropylene
Hardware:	Polypropylene
Gaskets/O-rings:	Fluoroelastomer (standard), Silicone Elastomer, Expanded PTFE, White Silicone, FEP Encapsulated Silicone, EPDM, FEP Encapsulated Fluoroelastomer

Dimensions (nominal):

Outside Diameter:	2.6" (6.6 cm)
Lengths (tip-to-tip):	4" (10.2 cm), 10" (25.4 cm), 20" (50.8 cm), 30" (76.2 cm), 40" (102 cm)

[1] - *Provided that the maximum differential pressure is not exceeded based on temperature limits defined above.*

Pressure Drop vs. Liquid Flow Rate[2]



[2]Typical flow rate is per 10" (25.4 cm) cartridge. For liquids other than water, multiply differential pressure by fluid viscosity (cps).

Prewetting Procedures:
See product insert T1101901 or consult factory.

Part Numbers/Ordering Information

VFTR ■ – ● ▼ ◆ – ▮ (e.g. VFTR100–10M3S-PW)

Code ■	Filter Grades
050	0.05 µm
100	0.1 µm
200	0.2 µm
450	0.45 µm
1000	1.0 µm

Code ●	Cartridge Lengths (nominal)
4	4" (M3 only)
10	10"
20	20"
30	30"
40	40"

Code ▼	End Configurations
M2	SOE flat closed end, fits housings with 020 O-ring post
M3	SOE flat closed end, external 222 O-rings (retrofits other manufacturers' Code 0)
M5	DOE, internal O-rings (retrofits other manufacturers' DOE internal O-ring style)
M6	SOE flat closed end, external 226 O-ring (retrofits other manufacturers' Code 6)
M7	SOE fin end, external 226 O-rings (retrofits other manufacturers' Code 7)
M8	SOE fin end, external 222 O-rings (retrofits other manufacturers' Code 5)
M10	DOE, internal O-rings (fits other manufacturers' housings)
DOE	DOE with elastomer gasket seal and end caps

Code ◆	Gasket/O-ring Materials
S	Silicone
E	EPDM
V	Fluoroelastomer (standard O-rings)
T	FEP Encapsulated Silicone (O-rings)
F	FEP Encapsulated Fluoroelastomer
T	Expanded PTFE (gaskets)

Code ▮	Pre-Wet
Blank	No Pre-wet
PW	Pre-wet option (consult factory for Pre-wet option on 30" and 40" lengths)

PALL Microelectronics

New York-USA
+1 516 484 5400 telephone
+1 800 360 7255 toll free
+1 516 625 3610 fax

Visit us on the Web at www.pall.com/micro

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Filtration. Separation. Solution.SM

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