

High Flow Asymmetric Membrane Filter Cartridge

- Absolute Rated at >99.9% Efficiency With Retention Ratings of 0.05, 0.1, 0.2, 0.45, 0.65, 0.8, or 1.2 μm
- Patented Highly Asymmetric Membrane Ensures Superior Flow Rates And Long Life
- Contaminants Trapped and Held by Positive Mechanical Retention
- · Manufactured in an ISO Class 7 Cleanroom
- Pre-Flushed and Tested with Ultrapure 18 Megohm-cm Water
- · Compatible with Most Sanitizing Agents

Performance Specifications

Filter Grades (>99.9% Retention Rating by Standard Latex Bead Challenge):

 $0.05, \, 0.1, \, 0.2, \, 0.45, \, 0.65, \, 0.8, \, 1.2 \, \mu m$

Maximum Differential Pressure:

20 psid (1.4 bard) @ 203°F (95°C) 80 psid (5.5 bard) @ 68°F (20°C)

Recommended Change Out Differential Pressure¹:

35 psid (2.4 bard)

Chemical Compatibility:

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

Sanitizing Agents:

Cartridge may be sanitized in place with common oxidizing agents. Consult factory for compatibility information.

Rinse-Up

Cartridges will rinse-up to 18 Megohm-cm in less than 6 minutes at a flow rate of 2.6 gpm (10 lpm).

VARAFINE™ VFSG Series Filter Cartridges



Cross-section of the Varafine VFSG Series membrane (thickness approx. 125 µm).

Product Specifications

Materials of Construction:

Filter Media: Hydrophilic Highly Asymmetric

Polysulfone Membrane

Support Material: Polypropylene Hardware: Polypropylene

Surface Treatment: Hydroxypropylcellulose

Sealing: Thermal Bond

Gaskets/O-rings: Silicone Elastomer, EPDM, Buna N,

Fluoroelastomer, Expanded PTFE FEP Encapsulated Silicone,

FEP Encapsulated Fluoroelastomer,

White Silicone

Dimensions (nominal):

Outside Diameter: 2 %" (6.6 cm)

Lengths: 4" (10.2 cm), 10" (25.4 cm),

20" (50.8 cm), 30" (76.2 cm),

40" (102 cm)

Surface Area: 6.1 ft² (0.57 m²) per 10" (25.4 cm)

equivalent

^{1 -} Provided that the maximum differential pressure is not exceeded based on temperature limits defined above.

Liquid Flow Specifications

Filter Grade (µm)	DI Water Flov GPM/PSID	v (10" equivalent) Ipm/mbard
0.05	1.0	0.05
0.1	1.7	0.09
0.2	3.0	0.16
0.45	5.5	0.30
0.65	6.0	0.33
0.8	7.0	0.38
1.2	8.0	0.44

Part Numbers/Ordering Information

VFSG ■ - • ▼ • (e.g., VFSG100–10M3S)

Code	Filter Grades
050	0.05 μm
100	0.1 μm
200	0.2 μm
450	0.45 μm
650	0.65 μm
800	0.8 μm
1200	1.2 µm

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

² - For details, contact Pall Corporation.

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) ²
M5	DOE, internal 120 O-rings (retrofits 213 O-ring style) ²
M6	SOE flat closed end, external 226 O-rings (retrofits other manufacturers' Code 6) ²
M7	SOE fin end, external 226 O-rings (retrofits other manufacturers' Code 7) ²
M8	SOE fin end, external 222 O-rings (retrofits other manufacturers' Code 5) ²
M10	DOE, internal O-rings (fits other manufacturers' housings) ²
M11	SOE flat closed end, internal 120 O-ring (retrofits other manufacturers' X-style) ²
DOE	DOE with elastomer gasket seals & end caps
Code •	Gasket/O-ring Materials
S	Silicone (standard O-rings)
Е	Nordel
V	Fluoroelastomer



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Buna N (standard gaskets)

Expanded PTFE (gaskets)

FEP Encapsulated Silicone (O-rings)

FEP Encapsulated Fluoroelastomer (O-rings)

White Silicone (O-rings)

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