

Filterite VARAFINE™ VFSG Series Filter Cartridges

High Flow Asymmetric Membrane Filter Cartridge

- Absolute Construction With Retention Ratings of 0.05, 0.1, 0.2, 0.45, 0.65, 0.8, or 1.2 μm
- Proprietary 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 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*:

35 psid (2.4 bar)

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.

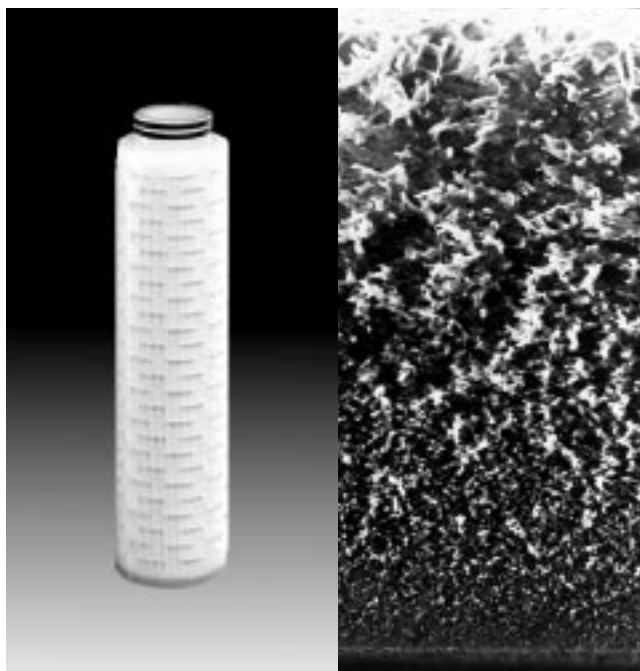
Rinse-Up:

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

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, Viton ¹ A, FEP Encapsulated Silicone, Expanded Viton A |



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

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)

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

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

¹ - Registered trademark of DuPont Dow.

Liquid Flow Specifications

| Filter Grade (µm) | DI Water Flow per 1 psid (GPM/10" (25.4 cm) equivalent) |
|-------------------|---|
| 0.05 | 1.0 (3.8 lpm) |
| 0.1 | 1.7 (6.4 lpm) |
| 0.2 | 3.0 (11.4 lpm) |
| 0.45 | 5.5 (20.8 lpm) |
| 0.65 | 6.0 (22.7 lpm) |
| 0.8 | 7.0 (26.5 lpm) |
| 1.2 | 8.0 (30.3 lpm) |

Part Numbers/Ordering Information

VFSG ■ - ● ▼ ◆ (e.g. VFSG100-10M3S)

| Code ■ | Filter Grades* | Code ● | Cartridge Lengths (nominal) |
|--------|----------------|--------|-----------------------------|
| 050 | 0.05 µm | 4 | 4" (M3 only) |
| 100 | 0.1 µm | 10 | 10" |
| 200 | 0.2 µm | 20 | 20" |
| 450 | 0.45 µm | 30 | 30" |
| 650 | 0.65 µm | 40 | 40" |
| 800 | 0.8 µm | | |
| 1200 | 1.2 µm | | |

* Based on typical application usage.

** For details, contact Contamination Control

| 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 2226 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)** |
| M11 | SOE flat closed end, internal 120 O-ring (retrofits other manufacturers' X-style)** |
| DOE | DOE with elastomer gasket seal and end caps |

| Code ◆ | Gasket/O-ring Materials |
|--------|---------------------------|
| S | Silicone |
| E | EPDM |
| V | Viton A |
| N | Buna N |
| T | FEP Encapsulated Silicone |
| F | FEP Encapsulated Viton A |

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