



# Varafine™ VFSE Series Filters

prelude.

## DESCRIPTION

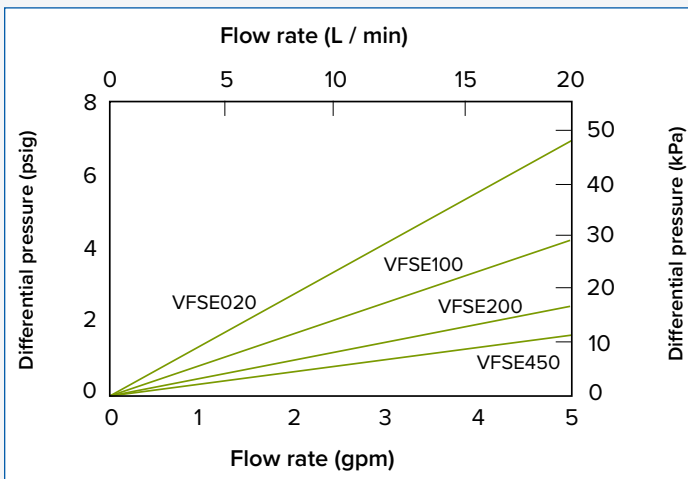
Varafine filters are well suited for ultra high purity DI water applications where very fine removal ratings and extremely high flow rates are required for economical installations. These filters contain a highly asymmetric polysulfone membrane that results in exceptionally low pressure drop values.

- Available in removal ratings from 0.02 µm to 0.45 µm
- Double layer, patented highly asymmetric polysulfone membrane
- Rapid rinse-up
- Integrity testable
- Manufactured in cleanroom environment



## PRESSURE DROP vs LIQUID FLOW RATE

VARAFINE VFSE FILTER CARTRIDGES



## ADDITIONAL INFORMATION

### HOUSINGS

To order Housings for Varafine VFSE Series Filters, please [contact](#) Pall Water for more details.

### ORDERING INFORMATION

To order Varafine VFSE Series Filters, please [contact](#) a Pall Water Representative or [visit our online store](#) today.

## SPECIFICATIONS

### MATERIALS

<b>Medium</b>	Hydrophilic asymmetric polysulfone
<b>Core, Cage &amp; Endcaps</b>	Polypropylene
<b>Support &amp; Drainage</b>	Polypropylene
<b>Sealing Method</b>	Thermal bond
<b>O-Ring / Gasket</b>	Silicone elastomer (standard)

### CONFIGURATIONS

<b>Nominal Length</b>	102 mm / 4 in, 254 mm / 10 in, 508 mm / 20 in, 762 mm / 30 in, and 1016 mm / 40 in
<b>Diameter</b>	66 mm / 2.6 in
<b>O-Ring Size / End Caps</b>	Code M3 (222 double O-rings / flat end), Code M8 (222 double O-rings / finned end), Code M7 (226 double O-ring / bayonet lock / finned end)

### OPERATING CONDITIONS

<b>Max. Operating Temperature</b>	30°C / 86°F (70°C / 158°F) <sup>1</sup>
<b>Max. Forward Differential Pressure</b>	0.5 MPa @ 20°C / 80 psid @ 68°F, 0.14 MPa @ 70°C / 20 psid @ 158°F

### INTEGRITY TEST VALUES<sup>2</sup> (PER 254 MM / 10 IN SEGMENT)

<b>0.02 µm</b>	<30 cm <sup>3</sup> / min @ 50 psig / 0.34 MPa
<b>0.1 µm</b>	<24 cm <sup>3</sup> / min @ 25 psig / 0.17 MPa
<b>0.2 µm</b>	<20 cm <sup>3</sup> / min @ 20 psig / 0.14 MPa bar
<b>0.45 µm</b>	<15 cm <sup>3</sup> / min @ 15 psig / 0.1 MPa

### ADDITIONAL INFORMATION

<b>Removal Ratings</b>	0.02 µm, 0.1 µm, 0.2 µm, 0.45 µm
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<sup>1</sup> Only in deoxygenated water systems; otherwise use Varafine T filters.

<sup>2</sup> Test fluid used is 100% H<sub>2</sub>O.



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Pall Water has installations all over the globe. To speak to a Pall Water representative in your area, please go to [www.pallwater.com](http://www.pallwater.com).

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