



## SuporFlow® Filter



### Description

The SuporFlow filter is designed specifically for the filtration of ultra-high-purity chemicals up to 70°C / 158°F.<sup>1</sup> It combines the latest advances in polyethersulfone membranes with Pall's Ultipleat® filter technology.

- True hydrophilic polyethersulfone membrane
- High retention characteristics
- Excellent compatibility
- High flow rates
- Low extractables
- Instant wettability
- 100% integrity tested and testable
- Manufactured in a cleanroom environment

### Specifications

#### Materials

- Medium: Polyethersulfone (PES)
- Core, cage, and end caps: High density polyethylene (HDPE)
- Support and drainage: High density polyethylene (HDPE)
- O-ring options: Viton<sup>2</sup> and Teflon<sup>2</sup> encapsulated Viton

#### Removal Rating

- Monorated<sup>3</sup> @ 0.1 µm

#### Filter Areas

- 254 mm / 10 in: 1.86 m<sup>2</sup> / 20 ft<sup>2</sup>

#### Configurations

- Nominal length: 254 mm / 10 in
- Diameter: 70 mm / 2.75 in
- Code 3: 222 double O-ring / flat end
- Code 8: 222 double O-ring / finned end

#### Operating Conditions

- Maximum temperature: 70°C / 158°F
- Maximum forward / reverse differential pressure: 0.103 MPa @ 70°C / 15 psid @ 158°F

#### Integrity Test Values<sup>4</sup>

- 0.1 µm, 10 in segment, 0.14 MPa (20 psig), < 40 cm<sup>3</sup> / min

#### Recommended Applications

- Aqueous based chemicals
- Bulk chemical distribution systems
- Point-of-use applications

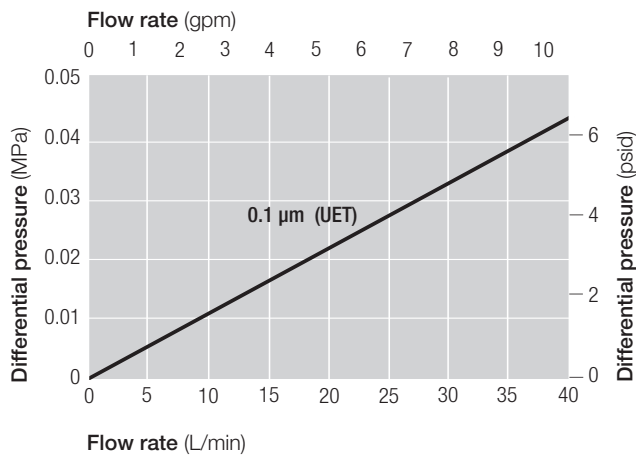
<sup>1</sup> Not compatible with SC1 and SC2 above 35°C.

<sup>2</sup> Teflon and Viton are registered trademarks of E. I. du Pont de Nemours and Company.

<sup>3</sup> Monoratings are based upon monodisperse polystyrene latex bead challenges in 18.2 Megohm-cm ultrapure DI water.

<sup>4</sup> Test fluid used is 60:40, IPA: H<sub>2</sub>O.

## Pressure Drop vs. Liquid Flow Rate<sup>5</sup>



<sup>5</sup> For liquids with a viscosity differing from water, multiply the pressure drop by the viscosity in centipoise.

## Part Numbers / Ordering Information

| Part Number <sup>6</sup> | Removal Rating (µm) | Nominal Length (mm / in) | Configuration Code | O-Ring Material <sup>7</sup> |
|--------------------------|---------------------|--------------------------|--------------------|------------------------------|
| ABD1UET3EH1              | 0.1                 | 254 / 10                 | 3                  | Teflon encapsulated Viton    |
| ABD1UET8EH1              | 0.1                 | 254 / 10                 | 8                  | Teflon encapsulated Viton    |
| MRD1UET3EH1              | 0.1                 | 254 / 10                 | 3                  | Teflon encapsulated Viton    |

<sup>6</sup> The above filter configurations are also available in 508 mm / 20 in, 762 mm / 30 in, and 1016 mm / 40 in lengths. These can be ordered by changing the fourth digit in the part number to a 2, 3, or 4 respectively.

<sup>7</sup> Other O-ring materials are available.

**Unit conversion:** 1 MPa = 10 bar



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