

## Small Flow Emflon® Filter



### Description

The Small Flow Emflon filter is recommended for chemicals which are compatible with PTFE and polypropylene.

- High flow rates
- Wide variety of configurations
- Three removal ratings available
- Integrity testable
- Low extractables
- Optimized design
- Manufactured in a cleanroom environment
- 100% integrity tested

### Specifications

#### Materials

- Medium: PTFE
- Core, cage, and end caps: Polypropylene
- Support and drainage: Polypropylene
- O-ring options: Viton,<sup>1</sup> Teflon<sup>1</sup> encapsulated Viton, and ethylene propylene

#### Removal Ratings

- 1 µm, 0.2 µm, 0.1 µm

#### Filter Areas

- 2.3 ft<sup>2</sup> / 0.22 m<sup>2</sup> per 2230 cartridge
- 4.7 ft<sup>2</sup> / 0.44 m<sup>2</sup> per 4463 cartridge
- 3.8 ft<sup>2</sup> / 0.35 m<sup>2</sup> per 4440 cartridge

#### Configurations

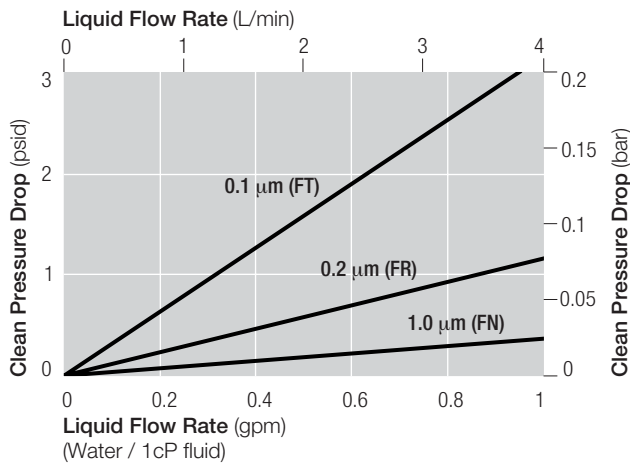
- Nominal length: 2.5" / 64 mm and 5" / 127 mm
- Diameter: 2.25" / 57 mm
- O-ring size/end caps:  
2230 (116 internal O-ring / flat end)  
4463 (116 internal O-ring / flat end)  
4440 (118 double O-ring / flat end)

#### Operating Conditions

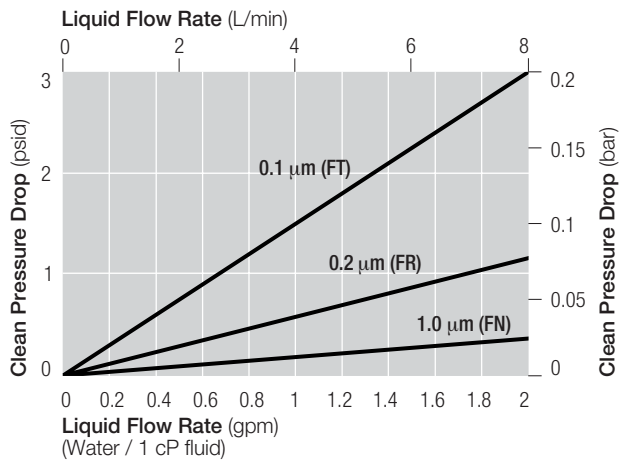
- Maximum Temperature: 194°F / 90°C
- Maximum Forward Differential Pressure:  
80 psid @ 120°F / 5.5 bar @ 50°C;  
50 psid @ 121° - 195°F / 3.5 bar @ 51° - 90°C

<sup>1</sup>Viton and Teflon are trademarks of DuPont Dow Elastomers

## Pressure Drop vs. Liquid Flow Rate\*

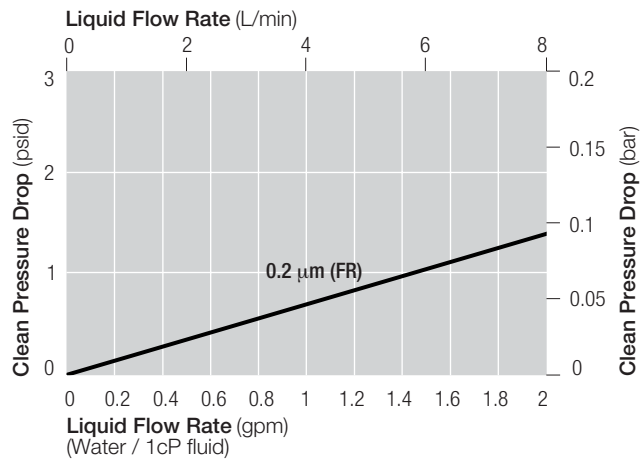


**Cartridge Style 2230**



**Cartridge Style 4463**

\* For liquids with viscosity differing from water, multiply the pressure drop by the viscosity in centipoise.



**Cartridge Style 4440**

## Part Numbers / Ordering Information

Part Number	Removal Rating (μm)	Nominal Length (in / mm)	O-Ring Size / Material <sup>2</sup>
MDY2230FNEHF	1.0	2.5 / 64	116 / Viton A
MCY4463FNEHF	1.0	5.0 / 127	116 / Viton A
MDY2230FREHF	0.2	2.5 / 64	116 / Viton A
MCY4463FREHF	0.2	5.0 / 127	116 / Viton A
MCY4440FREHF <sup>3</sup>	0.2	5.0 / 127	118 / Viton A
MDY2230FTEJ	0.1	2.5 / 64	116 / Ethylene Propylene
MCY4463FTEHF	0.1	5.0 / 127	116 / Viton A

<sup>2</sup> Other O-ring materials are available.

<sup>3</sup> Designed to retrofit competitor's 40 stack cartridges.

**Unit conversion:** 1 bar = 100 kilopascals



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