

# VF Series Polyethersulfone Membrane PS1

Filters High Performance and High Resistance

## SERIES VFPS1 High resistance element

Venefilter, offers this line with pleated elements and an asymmetric membrane strong microporous film made from polyethersulfone polymer, resistant to acids and bases. Its strength and durability, results in advantages during use in automated equipment. The membrane is for hydrophilic nature and does not contain wetting agents, well as a low amount of extractables.

## Features

- 7.0 ft<sup>2</sup> (0.65 m<sup>2</sup>) of membrane surface area per 10" element.
- High throughput.
- Extended area to allow ample flow rate.
- Longer on-line service reduces costly maintenance time.
- Absolute rated membrane from 0.1 to 0.65  $\mu$ m.
- Withstands temperatures of 185 ° F (85 ° C) to 30 consecutive minutes.
- Chemical Compatibility.
- Resistant to most acids, bases and oxidizing agents.
- Eliminates the need for wetting agents.
- Manufactured in an ISO Class 7 cleanroom environment.
- Meets USP Class VI, biological test for plastics.

## Operating Conditions

Maximum operating temperature	180 °F (82 °C) a 20 Psid (1,38 bar)
Maximum differential pressure	60 Psid a 80 °F (4,14 bar a 27 °C)
	30 Psid a 160 °F (2,07 bar a 71 °C)
	15 Psid a 200 °F (1,03 bar a 93,3 °C)
Maximum reverse differential pressure	40 Psid a 70 °F (2,8 bar a 21 °C)
Recommended change-out	35 Psid (2,4 bar)



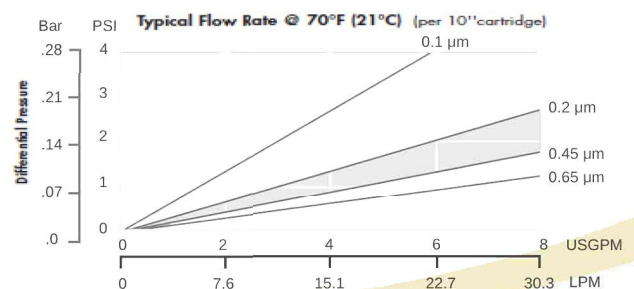
## Applications

- Food & Beverage
- Filtration of acids and bases
- Cosmetics
- Ink
- Chemicals
- Ultra pure water
- Aqueous solutions

## Design specifications

Media	Asymmetric Polyethersulfone membrane
Inner core, end caps, cage	Polypropylene
Support layers	Spunbonded Polypropylene
Outside diameter	2,7" (6,9 cm)
Inside diameter	1,0" (2,54 cm)
Surface area	7 ft <sup>2</sup> (0,65 m <sup>2</sup> ) per 10" element

## Pressure drop



# VF Series Polyethersulfone Membrane PS1

Filters High Performance and High Resistance

## Part Number

VFPS1	0.1	40	S3	B
Series	Microns	Nominal Length	End Configuration	Gasket
VFPS1	0.1	5: 5"	DOE: Double Open End	B: Buna-N
	0.2	9.75: 9 <sup>3/4</sup> "	S3:222w/Fin end	E: EPDM
	0.45	10: 10"	S4:222w/Flat end	V: Viton
	0.65	20: 20"	S5:226w/Fin end	S: Silicone
		30: 30"	S6:226w/Flat end	T: Teflon
		40: 40"	SOE: Single open end, internal O-Ring	
			DOEO: Double open end, internal O-Ring	

**Venefilter Inc.** Verifies that the information in this catalog is correct. However, some variation can affect the performance or behavior of the product. **Venefilter Inc.** becomes free from all responsibility and/or loss caused by the direct or indirect application of this product, including warranties, contracts or responsibility in implementing.

CAT-VF-PS1-12