

VF Series Polyethersulfone Membrane PS4

Filters great technological development and high capacity

SERIES VFPS4 High technology

Venefilter, formulates this filter pleated polyethersulfone membranes with microelectronic grade, for the purpose of develop the latest technology in terms of ultrapure water filtration. The filters are inherently hydrophilic and contains no added surfactant or wetting agents any sort resulting contaminants. It offers superior flow characteristics, high contamination retention capacity and constant removal of particles.

Features

- Absolute retention efficiency.
- Manufactured, flushed, tested and packaged, in an ISO Class 7 Cleanroom Environment.
- Filters are 100% flushed with 18 M Ω -cm DI water and integrity tested.
- Available in a variety of end cap/adaptor configurations to fit all industry-standard housings.
- Pore size, lot and serial number are stamped on each filter element for identification and traceability.

Operating Conditions

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 203 °F (1,03 bar a 95 °C)
Maximum reverse differential pressure	40 Psid a 70 °F (2,8 bar a 21 °C)
Recommended change-out	35 Psid (2,4 bar)

Integrity Test Specifications

Maximum Diffusive Air Flow (per 10-inch cartridge)

Pore Size	Diffusive Air Flow
0,03 microns	< 50 cc/min a 45 Psig (3,1 bar)
0,1 microns	≤ 50 cc/min a 40 Psig (2,8 bar)
0,2 microns	≤ 35 cc/min a 30 Psig (2,1 bar)
0,45 microns	≤ 35 cc/min a 20 Psig (1,4 bar)



Applications

- Ultrapure water

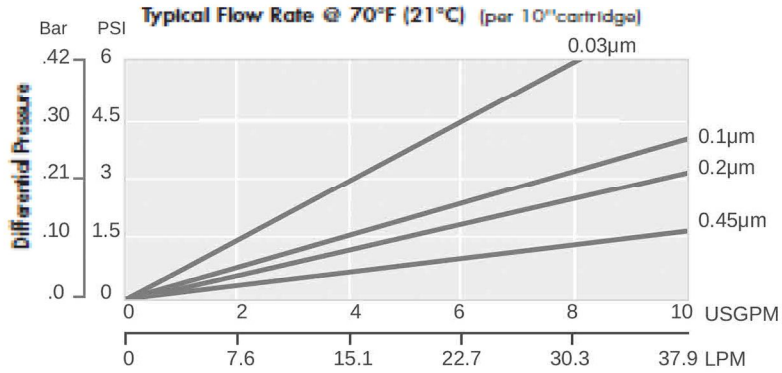
Design specifications

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	7,6 ft ² (0,7 m ²) per 10" element

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Pressure drop



Part Number

Series	Microns	Nominal Length	End Configuration	Gasket
VFPS4	0.03	5: 5"	DOE: Double Open End	B: Buna-N
	0.1	9.75: 9 ^{3/4} "	S3:222w/Fin end	E: EPDM
	0.2	10: 10"	S4:222w/Flat end	V: Viton
	0.45	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	

CAT-VF-PS4-12