

# VF Series Polyethersulfone Membrane PS3

Filters for reduction microbial load, high performance.

## SERIES VFPS3 High performance

Venefilter, drives this line of pleated polyethersulfone membranes to provide adequate performance for reduction of the microbial load and removing particles of a wide range of beverages, pharmaceutical and biological fluids. The naturally hydrophilic VFPS3 membrane filters provide exceptional flow rates, long on-stream life, broad chemical compatibility and have no added surfactants to contribute to extractables.

### Features

- Absolute retention efficiency.
- Manufactured in an ISO Class 7 Cleanroom Environment.
- Meets USP Class VI, biological test for plastics.
- All materials are listed by the FDA for contact with food and beverages.
- Repeatably Steamable/Sanitizable.
- High retentions up to  $10^7/cm^2$  challenged for bacteria and yeast.
- Pore size, lot and serial number are stamped on each filter element for identification and traceability.

### 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)

### Integrity Test Specifications

Minimum Bubble Point values and maximum Diffusive Air Flow (per 10-inch cartridge)

Pore Size	Bubble Point	Diffusive Air Flow
0,2 microns	≥ 38 Psig (2,6 bar)	≤ 35 cc/min a 30 Psig (2,1 bar)
0,45 microns	≥ 25 Psig (1,7 bar)	≤ 35 cc/min a 20 Psig (1,4 bar)
0,65 microns	≥ 18 Psig (1,2 bar)	≤ 35 cc/min a 15 Psig (1,0 bar)



### Applications

- Bottled Water
- Ophthalmic Solutions
- Reagent Chemicals
- I VPs
- Buffers
- Juices

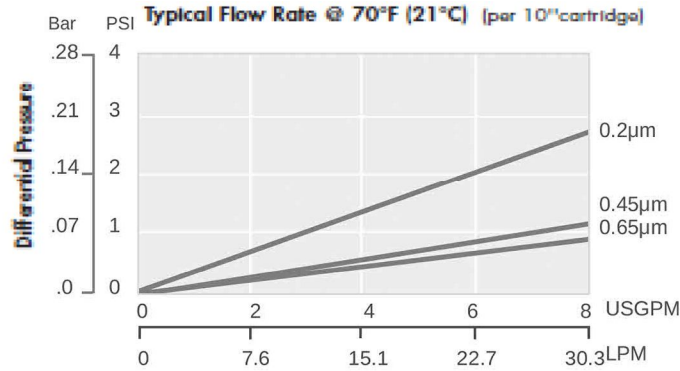
### Design specifications

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 <sup>2</sup> (0,7 m <sup>2</sup> ) per 10" element

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## Pressure drop



## Part Number

Series	Microns	Nominal Length	End Configuration	Gasket
VFPS3	0.2	20	S3	B
VFPS3	0.2	5: 5"	DOE: Double Open End	B: Buna-N
	0.45	9.75: 9 <sup>3</sup> / <sub>4</sub> "	S3:222w/Fin end	E: EPDM
	0.65	10: 10"	S4:222w/Flat end	V: Viton
		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-PS3-12