

OPTIPOR

PVDF MEMBRANE FILTER CARTRIDGE

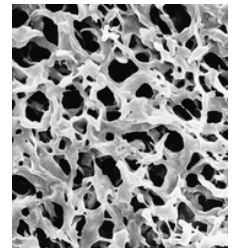
Food & Beverage Grade

This filter cartridge made of unique hydrophilic polyvinylidene fluoride (PVDF) membrane is characterized by ultra-low extractable and protein binding. They are suitable for the sterilized filtration of liquids in food and beverage.



FEATURES AND BENEFITS

- Available in single-layer and double-layer media
- Ultra low protein binding & low extractable
- Broad temperature resistance
- Excellent durability proven by testing forward / reverse pulse up to 100x.
- Broad chemical compatibility
- Each element is integrity tested to ensure filter quality
- Manufactured under a quality management system certified to ISO 9001:2000
- All components materials meets the requirement for food contact detailed in European Regulation (EC) N°1935/2004 and (EU) N° 10/2011
- Typical applications:
 - Food and beverage
 - Water treatment



TECHNICAL SPECIFICATIONS

CARTRIDGE DIMENSIONS

- Outer diameter: 69mm
- Length: 5"/127mm 10"/254mm 20"/508mm
- 30"/762mm 40"/1016mm

MATERIALS OF CONSTRUCTION

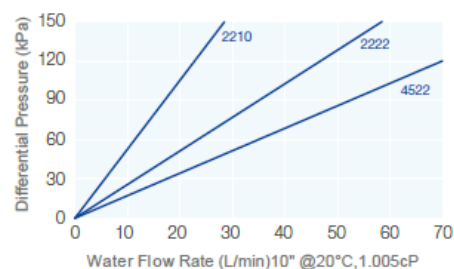
- Filter media: Hydrophilic Polyvinylidene Fluoride (PVDF) membrane
- Support layer: Polypropylene
- Core/Cage/End caps: Polypropylene
- Standard O' ring/gaskets: Silicone, EPDM, Viton or PFA/Viton
- Internal Adaptor / Reinforcing Ring: PBT (Polybutylene Terephthalate)

EFFECTIVE FILTRATION AREA (EFA)

0.58 m²

OPERATING CONDITIONS	
Max. operating temperature	80°C
Max. Differential pressure	6.9bar / 25°C 2.4 bar / 80°C
Steam sterilization (Autoclave)	130°C for 30 min per cycle
Stem in place	135°C for 30 min per cycle

Flow Rate Characteristics



INTEGRITY TEST PARAMETERS				
<u>Single layer</u>	0.1µm	0.22µm	0.45µm	0.65µm
DIFFUSION FLOW (10" at 20°C)	≤ 30ml/min at 3.86bar	≤ 20ml/min at 2.8bar	≤ 20ml/min at 2.8bar	≤ 20ml/min at 2.8bar
BUBBLE POINT (at 20°C)	≥ 1.6bar in 60% IPA 40% water, air	≥ 2.8bar in water, air	≥ 1.2bar in air	≥ 1.0bar in air
<u>Double layer</u>	0.45+0.22µm	0.22+0.22µm	0.22+0.10µm	0.45+0.45µm
DIFFUSION FLOW (10" at 20°C)	≤ 20ml/min at 2.8bar	≤ 18ml/min at 2.8bar	≤ 20ml/min at 3.86mbar	≤ 20ml/min at 2.8bar
BUBBLE POINT (in air at 20°C)	≥ 3.2bar	≥ 3.2bar	≥ 4.8bar	≥ 1.2bar

ORDERING INFORMATION

F	PVDF							
		MEDIA	LENGTH	MICRON	END CAP (inf)	END CAP (sup)	GASKETS	END CAP INSERT
		(Blank) - Single layer	05 - 5"/127mm	0.10 - 0.1µm	B - DOE with Gaskets	B - DOE with Gaskets	S - Silicone	(Blank) - No insert
		D - Double layer	10 - 10"/254mm	0.22 - 0.22µm	C - 226	F - Flat	E - EPDM	P - PBT
			20 - 20"/508mm	0.45 - 0.45µm	D - 222	S - Spear	V - Viton	
			30 - 30"/762mm	0.65 - 0.65µm	J - Junior 214		P - PFA/Viton	
			40 - 40"/1016mm	001- 1.0µm	K - Junior 216			
				2201 - 0.22+0.1µm				
				2222 - 0.22+0.22µm				
				4522 - 0.45+0.22µm				
				4545 - 0.45+0.45µm				

DISTRIBUIDO POR:



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