

1.1.3 PVDF (Polyvinylidene Fluoride) Series Pleated Filter Cartridge

Hydrophobic PVDF Membrane Pleated Filter Cartridge

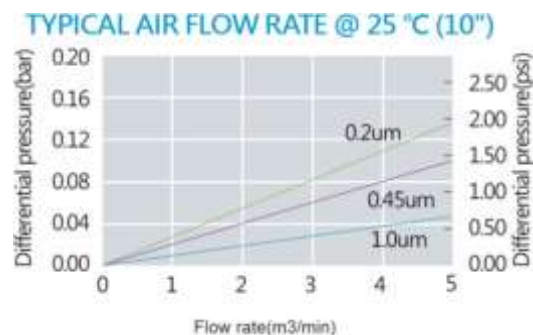
The hydrophobic PVDF membrane pleated filter cartridge is constructed of imported natural hydrophobic PVDF membrane filter media and PP support layers. All construction process are thermally welded without using any glue or adhesives to get low extraction level. The low protein binding and good chemical compatibility make it suit for a broad range of pharmaceutical products.

Features

- * Hydrophobic PVDF membrane for gas and solvents sterile filtration
- * Absolute rating, filtration effective is $\geq 99.99\%$, Minimum micron to 0.1 μm
- * Wide Chemical compatibility, low protein binding
- * 100% integrity tested

Application

- * Fermentation air
- * Tank vent
- * Compressed air
- * Sterile filtration of aggressive solvents/gases



Specifications

Construction Materials	Filter Media	hydrophobic PVDF membrane
	Support Layers	Polypropylene
	Inner core	Reinforced Polypropylene
	Outer cage	Reinforced Polypropylene
	End Cap	Polypropylene/ Stainless Steel
	Seal Method	Thermal Bonding, No Adhesives
Technical Data	O-rings/ Gaskets	Silicone/EPDM/Viton/PTFE/Nitrile
	Micron Rating	0.1, 0.2, 0.45, 0.65, 1.0, 3.0 μm
	Operating Temperature	Normal <65°C (149 °F) Max. <90°C (194 °F)
	Normal Flow Direction pressure	4.2 bar (60.9 psi) at 25°C (77°F)
	Reverse Flow Direction pressure	2.1 bar (30.5 psi) at 25°C (77°F)
	pH Value Compatibility	1-13

	Sterilization	Steam sterilization for 30 min at 135°C, cumulative time:50 hours
Cartridge Size	Outer Diameter	Φ 69 mm(2.75’')
	Inner diameter	Φ 33 mm(1.30’')
	Length(based on DOE end cap)	10’’, 20’’, 30’’, 40’'
	Filtration Area(m ²)	0.65 m ² /10’'
Biosecurity	Endotoxin	<0.25 EU/ml
	Extractable	≤30 mg/10’'
100% Integrity test 7:3=IPA:Water at 23°C (75 °F)	0.1 um	≥0.6 bar (8.7psi)
	0.2 um	≥0.35 bar (5.1 psi)
	0.45 um	≥0.2 bar (2.9 psi)

Hydrophilic PVDF Membrane Pleated Filter Cartridge

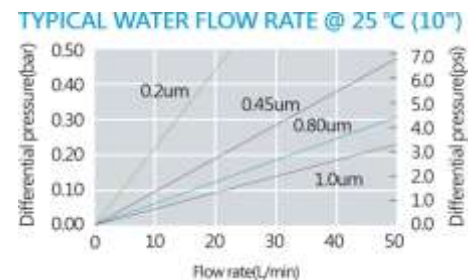
The hydrophilic PVDF membrane pleated filter cartridge is constructed of imported hydrophilic PVDF membrane filter media and PP support layers. All construction process are thermally welded without using any glue or adhesives to get low extraction level. The low protein binding and good chemical compatibility make it suit for a broad range of pharmaceutical products and water solvent.

Features

- * Hydrophilic PVDF membrane filter for liquids sterile filtration, absolute rating ≥99.99%
- * Low protein binding and low extraction, ideal for bioburden reduction and particle removal
- * High throughput flow rate with minimal differential pressure
- * Broad chemical compatibility, suitable for aggressive, high viscosity liquids
- * Withstand multiple steam sterilization
- * 100% integrity test

Application

- * Ophthalmic, WFI
- * Diagnostics, diluents, serum, tissue culture media and media additives
- * Sterile filtration of high viscosity liquid
- * Strong alkaline, acids and aggressive solvents



Specifications

Construction Materials	Filter Media	hydrophilic PVDF membrane
	Support Layers	Polypropylene
	Inner core	Reinforced Polypropylene
	Outer cage	Reinforced Polypropylene
	End Cap	Polypropylene/ Stainless Steel
	Seal Method	Thermal Bonding, No Adhesives
	O-rings/ Gaskets	Silicone/EPDM/Viton/PTFE/Nitrile
Technical Data	Micron Rating	0.1, 0.2, 0.45, 0.65, 1.0, 3.0 um
	Operating Temperature	Normal <65°C (149 °F) Max. <90°C (194 °F)
	Normal Flow Direction pressure	4.2 bar (60.9 psi) at 25°C (77°F)
	Reverse Flow Direction pressure	2.1 bar (30.5 psi) at 25°C (77°F)
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Cartridge Size	Outer Diameter	Φ 69 mm(2.75'')
	Inner diameter	Φ 33 mm(1.30'')
	Length(based on DOE end cap)	10'', 20'', 30'', 40''
	Filtration Area(m ²)	0.65 m ² /10''
Biosecurity	Endotoxin	<0.25 EU/ml
	Extractable	≤30 mg/10''
100% Integrity test 7:3=IPA:Water at 23°C (75 °F)	0.2 um 0.45 um 1.0 um	≥0.6 bar (8.7psi) ≥0.35 bar (5.1 psi) ≥0.2 bar (2.9 psi)