

1.1.2 PTFE (Polytetrafluoroethylene) Series Pleated Filter Cartridge

Hydrophobic PTFE Membrane Pleated Filter Cartridge

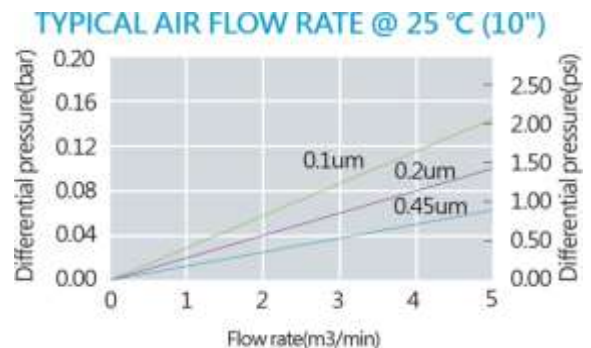
The hydrophobic PTFE membrane pleated filter cartridge is constructed of imported natural PTFE membrane media and PP support layers. All construction process re thermally welded without using any glue or adhesives to get low extraction level. It has superior chemical compatibility, which is ideal for corrosive organic liquid and gas.

Features

- * Naturally hydrophobic PTFE membrane with excellent porosity, high flow rate
- * Absolute rating, filtration efficiency \geq 99.99%, Up to 0.01 micron in gas sterile filtration
- * Low pressure drop and long service life
- * Wide chemical compatibility, resistant to aggressive gases and corrosive organic solvents
- * High temperature endurance performance
- * 100% integrity tested

Application

- * Compressed air, CO₂ line sterile filtration
- * Tank vent, Fermentation air
- * Air filtration in aseptic packaging
- * Aggressive acids, Bases, Solvents
- * Photo resists, Etch Solutions



Specifications

Construction Materials	Filter Media	hydrophobic PTFE membrane
	Support Layers	Polypropylene
	Inner core	Reinforced Polypropylene/ Stainless Steel
	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)
	pH Value Compatibility	1-14
	Sterilization	Flush with hot water at 121±2°C for 30 minutes, 100 cycles, autoclave 30 minutes(optional)
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 0.2 um 0.45 um	≥1.3 bar (19 psi) ≥0.9 bar (13 psi) ≥0.4 bar (5.8 psi)

Hydrophilic PTFE Membrane Pleated Filter Cartridge

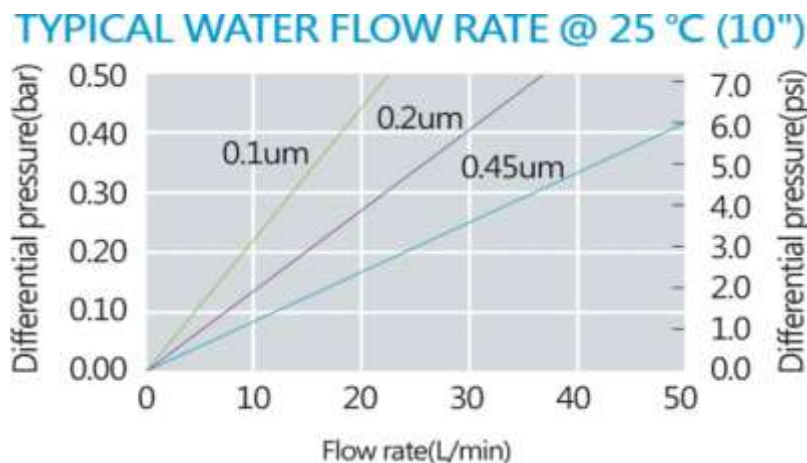
The hydrophilic PTFE membrane pleated filter cartridge is constructed of imported PTFE membrane media and PP support layers. All construction process is thermally welded without using any glue or adhesives to get low extraction level. It has superior chemical compatibility, which is ideal for strong alkali /acids and other corrosive liquid.

Features

- * Superior chemical compatibility, ideal for strong alkali and acids, resistant to high temperature, ozone
- * Hydrophilic PTFE membrane suit for liquids sterile filtration, no pre-wetting
- * High filtration efficiency, $\geq 99.99\%$, long service life
- * Uniform pore-size distribution allows high flow rate
- * 100% integrity test

Application

- * Mineral water, purified water, ozone, strong oxidizing liquid filtration
- * High temperature liquids filtration
- * Strong alkali, acids, corrosive liquids filtration



Specifications

Construction Materials	Filter Media	Hydrophilic PTFE membrane
	Support Layers	Polypropylene
	Inner core	Reinforced Polypropylene
	Outer cage, End Cap	Reinforced Polypropylene
	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)
	pH Value Compatibility	1-14
	Sterilization	Flush with hot water at 121±2°C for 30 minutes, 100 cycles, autoclave 30 minutes(optional)
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 0.2 um 0.45 um	≥1.3 bar (19 psi) ≥0.9 bar (13 psi) ≥0.4 bar (5.8 psi)