

CFP series Hydrophobic PTFE membrane

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General Applications Hydrophobic PTFE Pleated Filter Cartridges

CFP series General Applications Hydrophobic PTFE Pleated Filter Cartridges are made of polytetrafluoroethylene, and thus have excellent resistance to organic and inorganic chemical corrosive substances and have natural hydrophobicity of filtering materials. They are widely used in sterile filtration of strong solvents, strong corrosive liquids and strong oxidative liquids.



Features

- Inherently hydrophobic PTFE membranes
- All PP components and low extractables
- High-flow and low pressure drop
- Enhanced resistance to in-line and autoclave steam sterilization
- 100% Integrity Test

Applications

- Strong oxidative liquids filtration
- Prefiltration and terminal filtration of corrosive liquids
- Solvent materials filtration

Dimension

Out Diameter	69 mm (2.72")
Length	5", 10", 20", 30", 40"

Material of Constructions

- Media: Hydrophobic PTFE
- Support: PP
- Cage/ Cage/ Endcap: PP
- Seal Material: Please refer to ordering information

Performance

- Max Operating Temperature 80 °C
- Max Operating DP 4.5 bar @ 20 °C
2.4 bar @ 80 °C

Quality

- Filter Cartridges are manufactured in a clean room environment
- Manufactured according to ISO9001:2015 certified
- Quality Management System
- Materials of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulations 21 CFR 100% Integrity Tested
- Each individual element is tracked by serial number

Eg.=> CFPPT0010G050AD0PSS0

ORDERING INFORMATION										
Product Type	Membrane Type	Membrane pore size	Application	Size	Diameter	Endcap	Inner Core	Sealing Material	Connection Support	Revision
CFP = Pleated Cartridge	PT = PTFE phobic	0010 = 0.1µm	G = Gen Purpose	05 = 5"	0A = OD:69 mm	D0 = DOE	P = Polypro	S = Silicone	S= Standard	0 = Rev.0
		0022 = 0.22µm		10 = 10"		E2 = 213/Flat	U = SUS Steel	E = EPDM		
		0045 = 0.45µm		20 = 20"		H1 = 222/Fin		B = NBR		
		0100 = 1µm		30 = 30"		H2 = 222/Flat		V = Viton		
		0300 = 3µm		40 = 40"		H5 = 222/Spear Fin		F = E-FKM		
		0500 = 5µm				K1 = 222 Ext/Fin				
		1000 = 10µm				K2 = 222 Ext/Flat				
						G1 = 226/Fin				
						G2 = 226/Flat				
						G5 = 226/Spear Fin				
									P = PSU reinforcement (Endcap G1, G2, only)	

CFP series Hydrophobic PTFE membrane

Sterilizing grade Hydrophobic PTFE Pleated Filter Cartridges

CFP series Sterilizing grade Hydrophobic PTFE Pleated Filter Cartridges are made of hydrophobic PTFE membrane and inherently hydrophobic PTFE membrane ensuring the sterilizing performance in different humidity environments. The PP components offer superior oxidation resistance. The reinforced core makes the filter cartridges have higher pressure resistance to withstand, The in-line steam sterilization and autoclave, it is suitable for fermentation, pharmaceutical, and other biotechnology applications.



Features

- Inherently hydrophobic PTFE membranes
- Oxidation resistant hardware
- High-flow and low pressure drop
- Enhanced steaming resistance
- 100% Integrity tested

Applications

- Corrosive gas sterile filtration
- Compressed air and nitrogen gas solution
- Aseptic packaging
- Fermenter inlet air and exhaust venting, sterile process air and sterile venting of tanks

Dimension

Out Diameter	69 mm (2.72")
Length	5", 10", 20", 30", 40"

Integrity Test Parameters

• Bubble Point (BP)	≥ 1.1 bar @ IPA : Water 60 : 40
• Diffusion Flow (DF)	CFPPT0020Y ≤ 16 ml / min @ 1035 mbar CFPPT0020S ≤ 24 ml / min @ 1035 mbar
• Water Intrusion (WIT)	CFPPT0020Y ≤ 0.38 ml / min @ 2500 mbar CFPPT0020S ≤ 0.75 ml / min @ 2500 mbar

Material of Constructions

- Membranes: Inherently hydrophobic PTFE
- Support/Drainage: Oxidation resistant PP
- Cage/ Core/ Endcap: Oxidation resistant PP
- O-ring: Please refer to ordering information

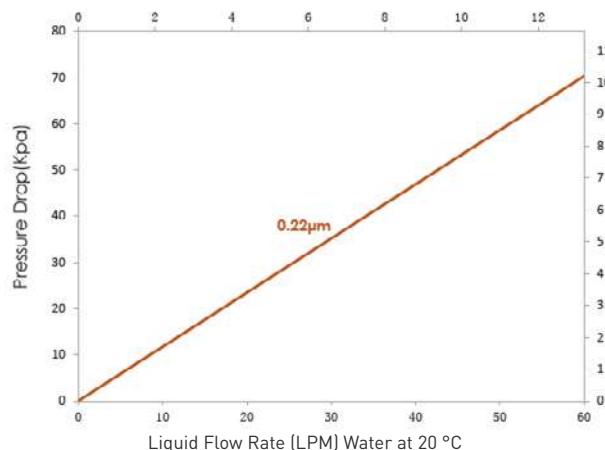
Performance

- Maximum operating temperature 80 °C
- Maximum differential pressure 2.4 bar @ 80 °C
- 5.2 bar @ 20 °C

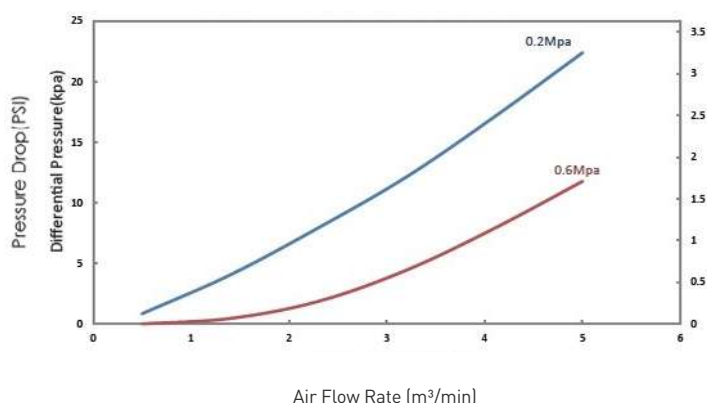
Sterilization

- Inline Steam Sterilization: 135 °C / 30 min, 150 cycles
- Maximum Forward Steam Sterilization: 1 bar @ 125 °C
- 0.3 bar @ 142 °C
- Maximum Reverse Steam Sterilization: 0.5 bar @ 125 °C
- 0.2 bar @ 142 °C

Flow Rate CFPPT0020S10 (ster grade / size 10")
Liquid Flow Rate (GPM) Water at 20 °C
wetted membrane IPA 60/40



Gas flow vs Pressure Drop
per 10" cartridge length. With air at 20°C



Quality

- Filter cartridges are manufactured in a clean room environment
- Manufactured according to ISO9001:2015 certified Quality Management System
- Material of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulations 21 CFR
- 100% integrity tested
- Each individual element is tracked by serial number

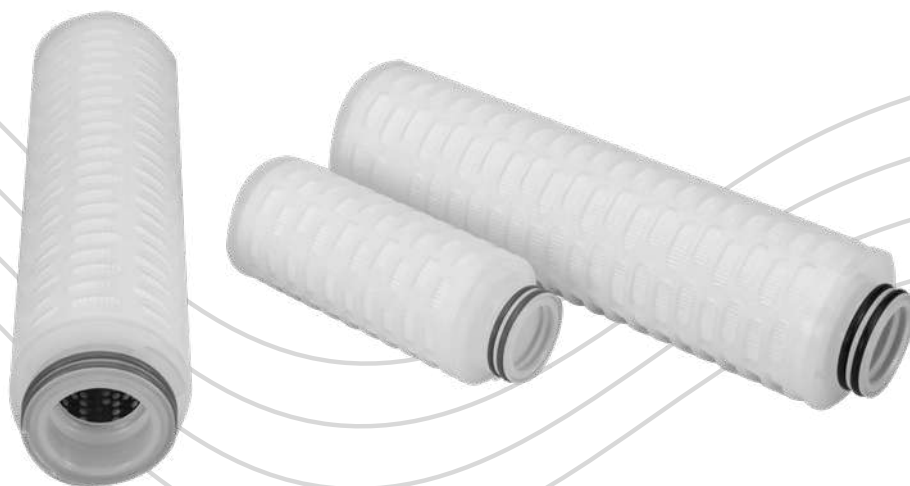
Eg.=>CFPPT0020S050AH1PSY0

ORDERING INFORMATION										
Product Type	Membrane Type	Membrane pore size	Application	Size	Diameter	Endcap	Inner Core	Sealing Material	Connection Support	Revision
CFP = Pleated Cartridge	PT = PTFE phobic	0020 = 0.2µm	S = Ster Grade Y = P Ster Gr	05 = 5" 10 = 10" 20 = 20" 30 = 30" 40 = 40"	0A = OD:69 mm	H1 = 222/Fin H2 = 222/Flat G1 = 226/Fin G2 = 226/Flat	P = Polypro U = SUS Steel	S = Silicone E = EPDM V = Viton	Y = SS reinforced P = PSU reinforced (Endcap: G1,G2, only)	0 = Rev.0

CFP series Hydrophobic PTFE membrane

High-Temperature Sterilizing grade Hydrophobic PTFE Pleated Filter Cartridges

CFP series Hydrophobic PTFE membrane High-Temperature Sterilizing grade Pleated Filter Cartridges can ensure the sterilizing performance in different humidity environment. The oxidation resistant PP components offer superior oxidation and high temperature resistance, reinforced core makes the filter cartridge higher pressure resistance, withstand in-line steam sterilization and autoclave, it is suitable for fermentation, pharmaceutical and other biotechnology applications.



Features

- Inherently hydrophobic PTFE membranes
- High temperature resistance
- Oxidation resistant hardware
- High-flow and low pressure drop
- Enhanced steaming resistance
- 100% Integrity tested

Applications

- Process venting
- Compressed air
- Gas purification
- Fermentation feed air

Dimension

Out Diameter	69 mm (2.72")
Length	5", 10", 20", 30", 40"

Integrity Test Parameters

- | | |
|-------------------------|---|
| • Diffusion Flow (DF) | ≤ 20 ml/min @ 1035 mbar (60/40 IPA/Water) |
| • Water Intrusion (WIT) | CFPPT0022U ≤ 0.38 ml/min @ 2500 mbar |
| | CFPPT0022T ≤ 0.75ml/min @ 2500 mbar |

Material of Constructions

• Media	PTFE
• Support	PP/PET
• Cage/End Cap	High temperature resistance PP
• Core	High temperature resistance PP/SS
• Adapter	PP with insert

Pore Size

Gas	0.01 µm
Liquid	0.2 µm

Performance

• Max Operating Temperature	100 °C
• Max Operating DP	5.2 bar @ 20 °C
	2.4 bar @ 80 °C

Sterilization

• Inline Steam Sterilization	135 °C / 30 min, 150 cycles
• Maximum Forward Steam Sterilization	1 bar @ 135 °C
	0.3 bar @ 142 °C
• Maximum Reverse Steam Sterilization	0.5 bar @ 125 °C
	0.2 bar @ 142 °C

Quality

- Filter cartridges are manufactured in a clean room environment
- Manufactured according to ISO9001:2015 certified Quality Management System
- Materials of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulations 21 CFR
- 100% Integrity Tested
- Each individual element is tracked by serial number

Eg.=> CFPPT0022T050AH1PSY0

ORDERING INFORMATION										
Product Type	Membrane Type	Membrane pore size	Application	Size	Diameter	Endcap	Inner Core	Sealing Material	Connection Support	Revision
CFP = Pleated Cartridge	PT = PTFE phobic	0022 = 0.22µm	T = HT Ster Gr U = HT P Ste Gr	05 = 5"	0A = OD:69 mm	H1 = 222/Fin	P = Polypro	S = Silicone	Y = SS reinforced	0 = Rev.0
				10 = 10"		H2 = 222/Flat	U = SUS Steel	E = EPDM		
				20 = 20"		G1 = 226/Fin		V = Viton	P = PSU reinforced (Endcap: G1,G2, only)	
				30 = 30"		G2 = 226/Flat				
				40 = 40"						

CFP series Hydrophobic PTFE membrane

Absolute Rated Hydrophobic PTFE

All Fluoropolymer Pleated Filter Cartridges

CFP series Absolute Rated Hydrophobic PTFE membrane, All Fluoropolymer Pleated Filter Cartridges are constructed PTFE support netting, and ultra-pure PFA hardware. This presents a filter cartridge with excellent chemical compatibility corrosion resistance, and low extractions to ensure high efficiency filtration and long service life with chemicals.



Features

- Excellent chemical compatibility
- High flow rate, low pressure loss, long service life
- 100% integrity tested

Applications

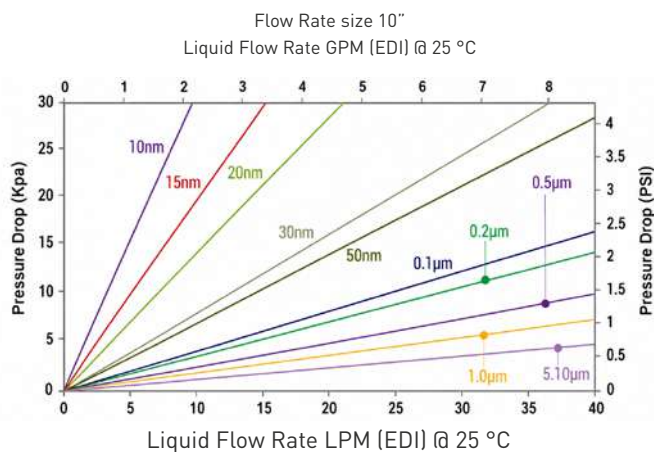
- Pharmaceutical products
- Fine chemicals
- Microelectronics fluids

Dimension

- Outer Diameter 2.72" (69 mm)
3.3" (83 mm) Only 10 inch is available
- Length 10"/20"/30"/40"
- Filtration Area:
 $H100A = H / 10" / OD:69mm = 0.9 \text{ m}^2$
 $H100H = H / 10" / OD:83mm = 1.51 \text{ m}^2$
- Premier Filtration Area
 $K100A = K / 10" / OD:69mm = 1.12 \text{ m}^2$
 $K100H = K / 10" / OD:83mm = 1.63 \text{ m}^2$

Material of Constructions

- Media Hydrophobic PTFE membrane
- Support Netting PFA/PTFE
- Cage/Core/End Cap PFA
- Seal Material E-FKM

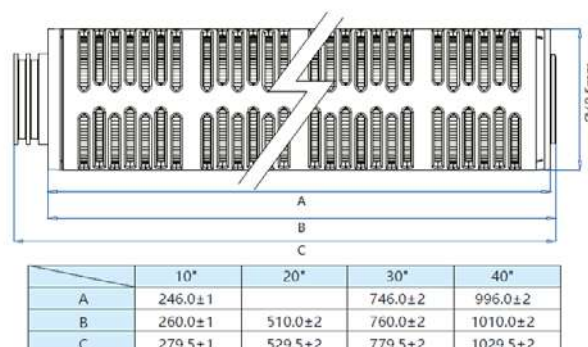
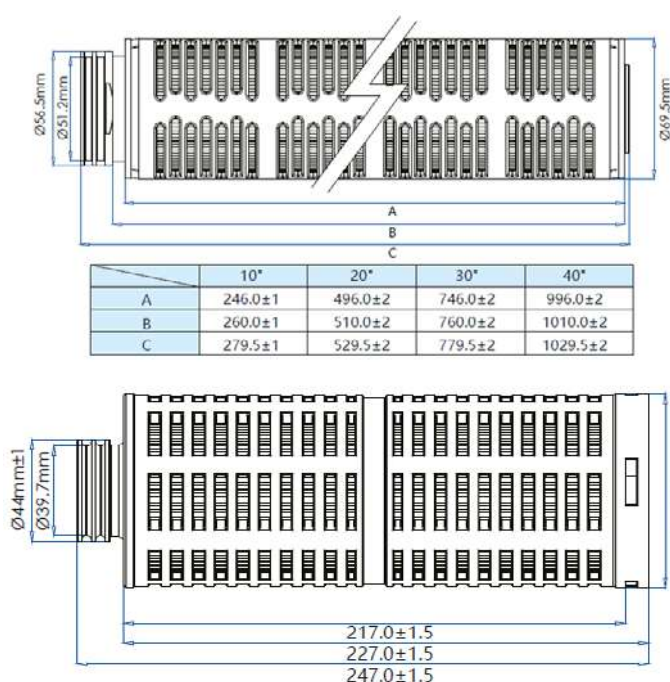


Performance

- Max Operating Temperature 160 °C
- Max Operating DP 5.0 bar @ 20 °C
2.0 bar @ 120 °C
- SIP 135 °C / 30 min

Quality

- Filter cartridges are manufactured in a clean room environment
- Manufactured according to ISO9001:2015 certified
- Quality Management System



Eg. => CFPPT0005H100AH2FFS2

ORDERING INFORMATION										
Product Type	Membrane Type	Membrane pore size	Application	Size	Diameter	Endcap	Inner Core	Sealing Material	Connection Support	Revision
CFP = Pleated Cartridge	PT = PTFE phobic	0N10=10nm	H = High Chem	10 = 10"	0A = OD:69 mm	H2 = 222/Flat	F = PFA	F = E-FKM	S= Standard	2 = Prewet
		0N15 = 15nm	K = P High Chem	20 = 20"	0H = OD:83mm (Size: 10, only)	G2 = 226/Flat				3 = No-Prewet
		0N20 = 20nm		30 = 30"						5 = H.CL Prew
		0N30 = 30nm		40 = 40"						6 = H.CL No-Prew
		0N50 = 50nm								
		0010 = 0.10µm								
		0020 = 0.20µm								
		0045 = 0.45µm								
		0100 = 1µm								
		0500 = 5µm								
		1000 = 10µm								