

CARTFLOW CATALOG











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CFP series PES membrane

CFP series PES membrane Eco Grade PES Pleated Filter Cartridges

CFP series - PES Eco Grade Pleated Filter Cartridges use the hydrophilic polyethersulfone (PES) membrane, which is with extreme low extractables and non-fiber releasing. The CFP series - PES Eco Grade Pleated Pleated Filter Cartridges have a broad chemical compactivity and better stability. This series is suitable for the filtration of bioburden reduction

Features

- High flow rate
- High-durability PES membrane and other PP assemblies
- Broad chemical compactivity (pH 1-14)
- Special hydrophilic materials

Applications

- large volume parenterals (LVP)
- Biological reagent filtration
- Ophthalmics filtration
- Aseptic filtration for detergent and disinfectant

Guarantees

- All filter cartridges are manufactured in 10,000-degree clean room
- Manufactured according to ISO9001:2015 certified quality management system
- Gross integrity

Dimension

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

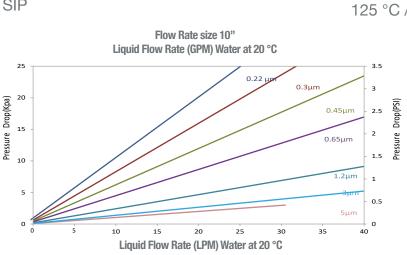
Material of Constructions

Media Support/Diversion Core/Cage/End Cap

Performance

Max Operating Temperature Max. Operating DP

SIP



Quality

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

Food Contact Compliance

- Materials of construction comply with FDA regulations for food and beverage contact use as detai-led in the US Code of Federal Regulations 21 CFR.
- Materials used to produce filter media and hardware meet the specifications for biological safety per • USP Calss VI-121C for plastics.
- Filter cartridgespassed European Commission Directives (EU10/2011) •
- Halal Certified .

								Eg.=> CFI	PPS0022B050AD0	PSS0
					ORDERING INFOR	MATION				
Product Type	Membrane Type	Membrane pore size	Application	Size	Diameter	Endcap	Inner Core	Sealing Material	Connection Support	Revision
CFP = Pleated Cartridge	PS = PES	0022 = 0.22µm	B =Low Bio	05 = 5"	0A = OD:69 mm	D0 = DOE	P = Polypro	S = Silicone	S= Standard	0 = Rev.0
		$0045=0.45 \mu m$		10 = 10"		E2 = 213/Flat	S = SS Steel	E = EPDM		
		0065 = 0.65µm		20 = 20"		H1 = 222/Fin		V = Viton	Y = SS reinforcement (Endcap D0, E2, K1, K2, excluded)	
		0120 = 1.2µm		30 = 30"		H2 = 222/Flat		F = E-FKM		
		0300 = 3µm		40 = 40"		H5 = 222/Spear Fin				
		0500 = 5µm				K1 = 222 Ext/Fin			P = PSU reinforcement (Endcap G1, G2, only)	
						K2 = 222 Ext/Flat				
						G1 = 226/Fin				
						G2 = 226/Flat				
						G5 = 226/Spear Fin				

Polyethersulfone (PES) Polypropylene Polypropylene

80 °C 4.0 bar @20 °C 2.4 bar @80 °C (Forward) 125 °C / 30 min

CFP series PES membrane High Asymmetric PES Pleated Filter Cartridges

CFP series High Asymmetric Polyethersulfone (PES) pleated filter cartridges are made of hydrophilic high asymmetric polyethersulfone membrane, can provide exceptionally high flow rate and long service life for processing large fluid volumes. It has excellent retention of microorganisms for superior protection of final filters. This characteristic especially suits for Food and Beverage filtration.

Features

- Broad pH compatibility allows the use of filters in a wide range of fluids
- Bioburden reduction efficiency for process with variable bioburden applications with high flow requirements.
- 100% integrity tested during manufacture.
- Low extractables.

Applications

- Food and beverage filtration
- Reduce biological load
- High flow process requirements
- Protection final filters or downstream equipment and systems such as tangential chromatographic

Dimension

Diameter	69 mm
Length	5", 10", 20", 30", 40"

Quality

- Validated with B. diminuta (ATCC 191463) at 107/CM2 (0.22 µm).
- Each membrane filter element has been individually tested for integrity.
- Individual element is tracked by serial number.
- Manufactured according to ISO 9001:2015 certified quality management system.
- Meets USP Biological Reactivity Test requirements of the current USP <88> for plastic class VI-121 °C. ۲

	Integrity Test	
Micron	Bubble Point≥ (Water)	Diffusion Flow≤ (10ӯ69mm)
0.22 µm	3.2 bar	35ml / min @ 2.76 bar
0.45 µm	2.1 bar	35ml / min @ 1.70 bar
0.65 µm	1.32 bar	24ml / min @1.1 bar

_					
		Integrity Test			
	Micron	Bubble Point≥ (Water)	Diffusion Flow≤ (10ӯ69mm)		
	0.22 µm	3.2 bar	35ml / min @ 2.76 bar		
	0.45 µm	2.1 bar	35ml / min @ 1.70 bar		

Effluent quality

- Non-fiber releasing
- Extractable 10 inch \leq 25 mg
- Meets TOC and water conductivity per USP Purified Water, pH per USP Sterile Purified Water.

Material of Constructions

Media	PES
Support	PP
Cage/Core/End	PP
Connection Adaptor	
SS Insert, PSU Insert O-Ring Silicon	e, EPDM , Viton®

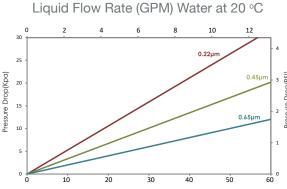
Performance

Operating Conditions

	Max Operating Temperature	80 °C
	Max. Operating DP 4 bar @ 21°C	, 2.4 bar @ 80 °C
	Sterilization	
	Autoclave Sterilization	121 °C, 60 Min
4	Filtration Area	
3 (PSI)	Ø 69mm 0.65 m ² / 10" Filter cart	ridges
e Drop		
Pressure Drop(PSI)	Extractables	
<u>م</u> ۱	10" Filter Cartridges	< 20mg

Eq.=> CFPPS0010S050AD0PSS0

								cy.=> GFPI	-200102020AD0P	330
				0	RDERING INFO	ORMATION				
Product Type	Membrane Type	Membrane pore size	Application	Size	Diameter	Endcap	Inner Core	Sealing Material	Connection Support	Revisio
CFP = Pleated Cartridge Filter		0010 = 0.1µm	G = Gen Purpose	05 = 5"	0A = OD:69 mm	D0 = DOE	P = Polypropylene	S = Silicone	s= Standard	0 = Rev
		$0022=0.22\mu m$		10 = 10"		E2 = 213/Flat	S = SS Steel	E = EPDM		
		$0045=0.45\mu m$		20 = 20"		H1 = 222/Fin		B = NBR	Y = SS reinforcement	
		0065 = 0.65µm		30 = 30"		H2 = 222/Flat		V = Viton	(Endcap D0, E2, K1, K2, excluded)	
				40 = 40"		H5 = 222/Spear Fin	1	F = E-FKM		
						K1 = 222 Ext/Fin	ı		P = PSU reinforcement (Endcap G1, G2, only)	
						K2 = 222 Ext/Flat	t			
						G1 = 226/Fin				
						G2 = 226/Flat				
	$\langle \rangle$					G5 = 226/Spear Fin	1			
						/				



Flow Rate size 10"

Liquid Flow Rate (LPM) Water at 20 °C

CFP series PES membrane Asymmetric PES Pleated Filter Cartridges

The CFP series Asymmetric Polyethersulfone (PES) Pleated Pleated Filter Cartridges are designed to provide greater bacteria and particle removal at high flow rates and low pressure drops in a wide range of biological fluids. It offers the greatest assurance of filtration performance, stability, and service life. All components of the filter cartridge comply with FDA regulations for food contact use.

Features

- Durable PES and PP components
- Highly porous asymmetric membrane
- Excellent chemical compatibility
- Low extractables
- 100% integrity tested during manufacture

Applications

- Large infusion (LVP), small injection (SVP), eye drops sterilization filtration
- Sterilization filtration of biological product
- Sterilization filtration of antibiotic aqueous solution
- Cleaning fluid and disinfectant sterilizing filtration

Dimension

Diameter 69 mm 5", 10", 20", 30", 40" Length

Material of Constructions

Media	PES
Support	PP
Cage/Core/End	PP
Connection Adaptor	SS Insert, PSU Insert
O-Ring	Silicone, EPDM , Viton®

Quality

- Validated with B. diminuta (ATCC 191463) at 107/CM2 (0.22 μm).
- Each membrane filter element has been individually tested for integrity.
- Individual element is tracked by serial number.
- Manufactured according to ISO 9001:2015 certified guality management system.
- Meets USP Biological Reactivity Test requirements of the current USP <88> for plastic class VI-121°C.

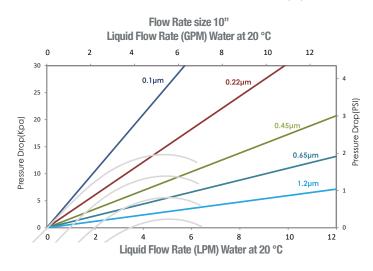
Performance

Operating Conditions

Max Operating Temperature Max. Operating DP	80 °C 4 bar @ 21 °C , 2.4 bar @ 80 °C
Sterilization Autoclave Sterilization SIP	121°C , 60 Min 135°C , 30 Min , 20 cycles
Filtration Area Ø 69mm	0.65 m² / 10" Filter cartridges
Extractables 10" Filter Cartridges	< 20 mg

Effluent quality

- Non-fiber releasing
- Non-pyrogenic per USP Bacterial Endotoxins (<0.25 EU/mL)
- Meets TOC and water conductivity per USP Purified Water, pH per USP Sterile Purified Water.



	Integrity Test	
Micron	Bubble Point ≥ (Water)	Diffusion Flow ≤ (10ӯ69 mm)
0.1 µm	4.8 bar	25 ml / min @ 4.475 bar
0.22 µm	3.2 bar	25 ml / min @ 2.76 bar
0.45 µm	2.1 bar	25 ml / min @ 1.70 bar
0.65 µm	1.32 bar	12 ml / min @ 1.1 bar

Eg.=> CFPPS0010S050AD0PSS0

/					(DRDERING IN	FORMATION				
/	Product Type	Membrane Type	Membrane pore size	Application	Size	Diameter	Endcap	Inner Core	Sealing Material	Connection Support	Revision
	CFP = Pleated Cartridge Filter	PS = PES	0010 = 0.1µm	S = Ster Grade	05 = 5"	0A = OD:69 mm	D0 = DOE	P = Polypropylene	S = Silicone	S= Standard	0 = Rev.0
			$0022 = 0.22 \mu m$		10 = 10"		E2 = 213/Flat	S = SS Steel	E = EPDM		
			0045 = 0.45µm		20 = 20"		H1 = 222/Fin		B = NBR	Y = SS reinforcement	
			0065 = 0.65µm		30 = 30"		H2 = 222/Flat		V = Viton	(Endcap D0, E2, K1, K2, excluded)	
			0120 = 1.2µm		40 = 40"		H5 = 222/Spear Fin		F=E-FKM		
							K1 = 222 Ext/Fin			P = PSU reinforcement (Endcap G1, G2, only)	
							K2 = 222 Ext/Flat				
							G1 = 226/Fin				
							G2 = 226/Flat				
							G5 = 226/Spear Fin				

CFP series PES membrane Double Layer Asymmetric PES Pleated Filter Cartridges

CFP series Double Layer Asymmetric PES Pleated Filter Cartridges is constructed of highly asymmetric polyethersulfone membrane from Germany and imported support layer. Unique double layer hydrophilic polyethersul-fone makes it have excellent filtration performance and reliable bacteriaintercepting ability. It is especially used in pharmaceutical industry with stringent requirement. All components of filter cartridge comply with FDA regulations. This filter can withstand repeated steam sterilization.

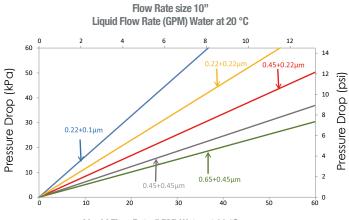
Features

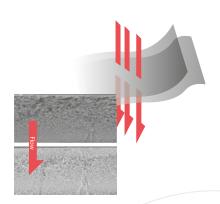
- Unique double layer hydrophilic polyethersulfone with double security makes it have reliable bacteria-intercepting ability, increasing filtration safety factor by more than 10 times.
- Large effective filtration area makes the filter longer service life and lower cost.
- Broad chemical compatibility (PH1-14), it is suitable for various pharmaceutical filtration.
- Structure Stabilization, it can withstand sterilization cycle with 50 times
- 100% integrity test ensures absolute sterilization
- Low protein adsorption
- ISO9001:2015 certified Quality Management System

Quality

Validated with B. diminuta (ATCC 191463) at 107/CM2 (0.22 µm).

- Each membrane filter element has been individually tested for integrity.
- Individual element is tracked by serial number.
- Manufactured according to ISO 9001:2015 certified quality management system.
- Meets USP Biological Reactivity Test requirements of the current USP <88> for plastic class VI-121 °C





Liquid Flow Rate (LPM) Water at 20 °C

Applications

Pharma - Particles filtration, becterium filtration, API (Active Pharmaceutical Ingredient) filtration, Food and Beverage - Water filtration, Wine and Sparkling Wine filtration, Spirits filtration.

Silicone, EPDM,NBR,

Viton, Teflon, E-FKM

PES PP

PP

Material of Constructions

Media Support Cage/core/end cap Sealing

Dim

Perf

Oper

Dimension Outer Diameter Length	69 mm 5", 10", 20", 30", 40"	•
Performance Operating Conditions Max Operating Temperature Max. Operating DP	80 °C 4.0 bar @ 20 °C 2.4 bar @ 80 °C	
Sterilization Autoclave Sterilization SIP	121 °C , 60 min 125 °C , 30 min	
Eiltretien Aree		

Filtration Area Ø 69mm

_ _ _ _ _ _

0.65 m² / 10"

Extractables

10" Filter Cartridges

< 20 mg

Integrity Test **Effluent quality** Bubble Point ≥ (Water) Diffusion Flow ≤ (10"Ø69mm) Membrane por size Non-fiber releasing 25ml/min @ 4.475 bar 2201 =.22/0.1µm 4.8 bar Non-pyrogenic per USP Bacterial • 2222 = .22/.22µm 25ml/min @ 2.76 bar Endotoxins (<0.25EV/mL) 3.2 bar 25ml/min @ 1.70 bar $0422 = .45/.22 \mu m$ 3.2 bar Meets TOC and water conductivity per USP 12ml/min @ 1.1 bar $0404 = .45/.45 \mu m$ 2.1 bar Purified Water, pH per USP Sterile Purified $0604 = .65/.45 \mu m$ 2.1 bar 25ml/min @ 1.70 bar Water.

Eg.=> CFPPS2201P050AD0PSS0

	ORDERING INFORMATION												
Product Type	Membrane Type	Membrane pore size	Application	Size	Diameter	Endcap	Inner Core	Sealing Material	Connection Support	Revision			
CFP = Pleated Cartridge Filter	PS = PES	2201 =.22/0.1µm	P = Premier	05 = 5"	0A = OD:69 mm	D0 = DOE	P = Polypropylene	S = Silicone	S= Standard	0 = Rev.0			
		2222 = .22/.22µm		10 = 10"		E2 = 213/Flat	S = SS Steel	E = EPDM					
		0422 = .45/.22µm		20 = 20"		H1 = 222/Fin		B = NBR	Y = SS reinforcement				
		$0404 = 45/.45 \mu m$		30 = 30"		H2 = 222/Flat		V = Viton	(Endcap D0, E2, K1, K2, excluded)				
		0604 = .65/.45µm		40 = 40"		H5 = 222/Spear Fin		F = E-FKM					
						K1 = 222 Ext/Fin			P = PSU reinforcement (Endcap G1, G2, only)				
						K2 = 222 Ext/Flat							
						G1 = 226/Fin							
						G2 = 226/Flat							
						G5 = 226/Spear Fin							

CFP series PSU membrane

CFP series PSU membrane General Applications PSU Pleated Filter Cartridges

CFP series General Applications Pleated PSU Filter Cartridges is constructed of highly asymmetric hydrophilic polysulfone membrane and polypropylene components. The unique PSU membrane delivers a high flow rate, long life time, and excellent particle removal efficiency. All the cartridges are made in a controlled clean room environment. The cartridges are ideally suitable for filtration of water-based fluids.



Features

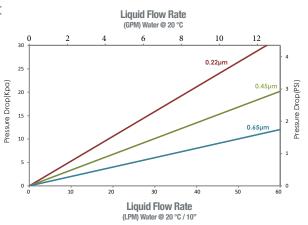
- Highly asymmetric polysulfone membrane provides excellent dirt holding capacity and flow characteristics
- Hydrophilic polysulfone membrane eliminates the need for prewetting and flushing
- Asymmetric membrane structure provides high flow rates with lower differential pressure and a longer life time
- Widely compatible with cleaning applications in many processes such as developing, etching, and stripping
- Manufactured in controlled clean room environment

Applications

- General-Use water Filtration
- Deionized water systems
- Liquid clarification
- Chemical filtration
- Ulta-Pure water systems

Dimension

Diameter69 mmLength5", 10", 20", 30", 40"



Food Contact Compliance

- Materials of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulations 21CFR.
- Materials used to produce filter media and hardware meet the specifications for biological safety per USP Calss VI-121C for plastics.
- Filter cartridges passed European Commission Directives (EU10/2011)
- Halal Certified

Material of Constructions

- Media
- Support
- Cage/Core/End
- Sealing

Performance

Operating Conditions

Max. Operating Temperature Max. Operating DP

80 °C

Highly Asymmetric Hydrophilic PSU Membrane

4 bar @ 21 °C, 2.4 bar @ 80 °C

Polypropylene (PP)

Polypropylene (PP) EPDM, Viton[®], E-FKM

Quality

- Filter Cartridges are manufacturered in a clean room environment
- Manufacturered according to ISO9001:2015 certified Quality Management System
- 100% integrity test

								Eg.=> CFP	SUUUU3GU5UADUP	550			
	ORDERING INFORMATION												
Product Type	Membrane Type	Membrane pore size	Application	Size	Diameter	Endcap	Inner Core	Sealing Material	Connection Support	Revision			
CFP = Pleated Cartridge Filter	SU = Poly- sulfone	0003 = 0.03µm	G = Gen Purpose	05 = 5"	0A = OD:69 mm	D0 = DOE	P = Polypro	S = Silicone	S= Standard	0 = Rev.0			
		0005 = 0.05µm		10 = 10"		E2 = 213/Flat	U = SUS Steel	E = EPDM					
		0010 = 0.1µm		20 = 20"		H1 = 222/Fin		B = NBR	Y = SS reinforcement				
		0020 = 0.20µm		30 = 30"		H2 = 222/Flat		V = Viton	(Endcap D0, E2, K1, K2, excluded)				
		$0045=0.45 \mu m$		40 = 40"		H5 = 222/Spear Fin	1	F = E-FKM					
		0120 = 1.2µm				K1 = 222 Ext/Fir	ı		P = PSU reinforcement (Endcap G1, G2, only)				
						K2 = 222 Ext/Flat	t						
						G1 = 226/Fin							
						G2 = 226/Flat							

G5 = 226/Spear Fin

Eg.=> CFPSU0003G050AD0PSS0

CFP series PP media

CFP series PP media General Applications PP Pleated Filter Cartridge

CFP series General Aplications PP Pleated Filter Cartridge are all-polypropylene filter cartridges in economically efficient design, suitable for a wide range of process applications. The pleated polypropylene filter material provides a large filtration surface area which allows for maximized flow rate in the system. PP Pleated Filter Cartridges are available in nominal retention ratings from 0.1 to 50 micron.

Features

- Nominal rated structure, particle removal rating from 0.1 to 50 Micron
- 100% polypropylene components provide broad chemical compatibility, suitable for use in a variety of fluids
- Various end cap configurations to fit into the most standaed housings
- Meets FDA requirements for food contact and passes European Commission Directives (EU10/2011)

Applications

- Food & Beverage
- Plating Chemicals
- RO Pre-Filtration
- Fine Chemicals
- Process Water
- Waste water

Dimension

Diameter69 mmLength5", 10", 20", 30", 40"

Food Contact Compliance

- Materials of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulations 21 CFR.
- Materials used to produce filter media and hardware meet the specifications for biological safety per USP Calss VI-121C for plastics.
- Filter cartridges passed European Commission Directives (EU10/2011)
- Halal Certified

Material of Constructions

- Media:PP
- Support: PP
- Cage / Core / End cap: PP
- Sealing: Silicone, EPDM, NBR, Viton®, Teflon®, E-FKM

Performance

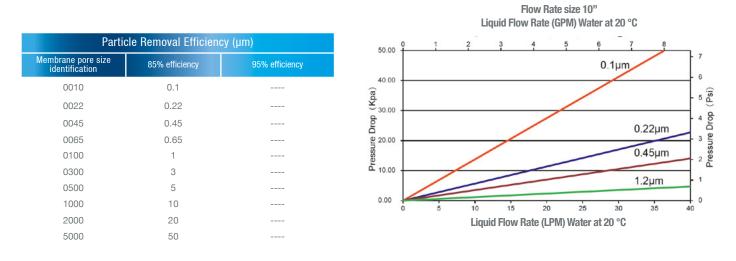
Operating Conditions Max. Operating Temperature Max. Operating DP

30 °C

4 bar @ 21° , 2.4 bar @ 80 °C

Quality

- Filter Cartridges are manufacturered in a clean room environment
- Manufacturered according to ISO9001:2015 certified Quality Management System
- 100% integrity test



Eg.=> CFPPP0010G050AD0PSS0

				0	RDERING INF	ORMATION				
Product Type	Membrane Type	Removal Rating	Application	Size	Diameter	Endcap	Inner Core	Sealing Material	Connection Support	Revision
CFP = Pleated Cartridge	PP = Polypro	0010 = 0.1µm	G = Gen Purpose	05 = 5"	0A = OD:69 mm	D0 = DOE	P = Polypro	S = Silicone	S= Standard	0 = Rev.0
		$0022=0.22\mu m$		10 = 10"		E2 = 213/Flat	U = SUS Steel	E = EPDM		
		$0045=0.45 \mu m$		20 = 20"		H1 = 222/Fin		B = NBR	Y = SS reinforcement	
		0100 = 1µm		30 = 30"		H2 = 222/Flat		V = Viton	(Endcap D0, E2, K1, K2, excluded)	
		$0300 = 3 \mu m$		40 = 40"		H5 = 222/Spear Fin		F = E-FKM		
		$0500 = 5 \mu m$				K1 = 222 Ext/Fin			P = PSU reinforcement (Endcap G1, G2, only)	
		$1000 = 10 \mu m$				K2 = 222 Ext/Flat				
		2000 = 20µm				G1 = 226/Fin				
		5000 = 50µm				G2 = 226/Flat				
		7500 = 75µm				G5=226/SpearFin				

CFP series PP media Nominal Rated PP Pleated Filter Cartridges

CFP series Nominal Rated PP Pleated Filter Cartridges are all-polypropylene filter cartridges made with submicron fine fiber filter media which provide smaller pores. It is fabricated without using any binders, adhesives, plasticizers, and surfactants. These filter cartiges can be repeatedly hot water sanitized. The filter media and its support structure are thermally welded to the end caps, making integral filter cartridges of minimum extractables in a wide range of fluids and applications. All the filter cartridges are manufactured in a clean room environment.

Features

- Nominal rated structure, particle removal rating from 0.1 to 50 Micron
- Non filber shedding
- 100% polypropylene components provide broad chemical compatibility, suitable for use in a variety of fluids
- Various end cap configurations to fit into the most standard housings

PP PP

PP

PP

 Meet FDA requirements for food contact and passes European Commission Directives (EU10/2011)

Applications

- Pharmaceutical Water
- RO Pre-Filtration
- Fine Chemicals
- Process Water

Filtration Area

Ø 69mm: 0.6 m² / 10" Filter Cartridges

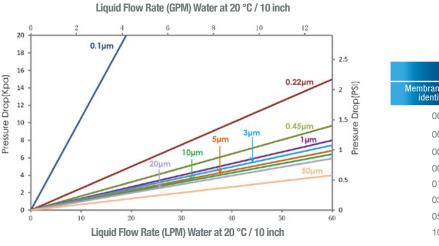
Material of Constructions

- Media:
- Support:
- Cage/Core/Endcap:
- Connection:
- Sealing:

Silicone EPDM, NBR, Viton ®

Performance

Max.Operating temperature: Max.Operating DP: 80 °C 4 bar @ 21 °C , 2.4 bar @ 80 °C



Flow Rate size 10"

Part	30% enticency 35% enticency 0.1 μm 0.22 μm 0.45 μm 0.65 μm 1 μm 3 μm 5 μm 5 μm 10 μm				
Membrane pore size identification	90% efficiency	95% efficiency			
0010	0.1 µm				
0022	0.22 µm				
0045	0.45 µm				
0065	0.65 µm				
0100	1 µm				
0300	3 µm	5 µm			
0500	5 µm	10 µm			
1000	10 µm	15 µm			

Quality

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

Food Contact Compliance

- Materialsof construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulations 21 CFR.
- Materials used to produce filter media and hardware meet the specifications for biologicals afety per USP Calss VI-121C for plastics.
- Filter cartridges passed European Commission Directives (EU10/2011)
- Halal Certified

	ORDERING INFORMATION										
Product Type	Membrane Type	Removal Rating	Application	Size	Diameter	Endcap	Inner Core	Sealing Material	Connection Support	Revision	
CFP = Pleated Cartridge	PP = Polypro	0010 = 0.1µm	C = Chem	05 = 5"	0A = OD:69 mm	D0 = DOE	P = Polypro	S = Silicone	S= Standard	0 = Rev.0	
		$0022=0.22 \mu m$		10 = 10"		E2 = 213/Flat	U = SUS Steel	E = EPDM			
		$0045 = 0.45 \mu m$		20 = 20"		H1 = 222/Fin		B = NBR	Y = SS reinforcement		
		0100 = 1µm		30 = 30"		H2 = 222/Flat		V = Viton	(Endcap D0, E2, K1, K2, excluded)		
		0300 = 3µm		40 = 40"		H5 = 222/Spear Fin		F = E-FKM			
		0500 = 5µm				K1 = 222 Ext/Fir	1		P = PSU reinforcement (Endcap G1, G2, only)		
		$1000 = 10 \mu m$				K2 = 222 Ext/Flat					
		2000 = 20µm				G1 = 226/Fin					
		5000 = 50µm				G2 = 226/Flat					
						G5 = 226/Spear Fin	1				

Eg.=> CFPPP0010C050AD0PSS0

CFP series PP media High Rated PP Pleated Filter Cartridges

These CFP series filter cartridges are high rated pleated depth-type filters constructed of 100% polypropylene material. These filters are available in absolute particle retention ratings from 0.1 to 50 micron and various end cap configurations to fit into the most standard housings. All components of the series filter cartridges are FDA approved. The filter media and its support structure are thermally welded to the end caps, making integral filter cartridges of minimum extractables in a wide range of fluids and applications. All the filter cartridges are manufactured in a clean room environment.



- Absolute rated structure, particle removal rating from 0.1 to 50 Micron
- 100% polypropylene components provide broad chemical compatibility, suitable for use in a variety of fluids
- Consistent particle removal, no migration of filter media and non fiber shedding
- Meets FDA requirements for food contact and passes European Commission Directives (EU10/2011)

Applications

- Food & Beverage
- Plating Chemicals
- **RO Pre-Filtration**
- **Fine Chemicals**
- Process Water

Dimension

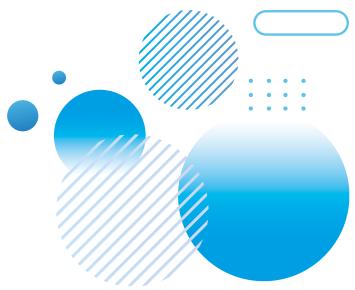
OD: 69mm Length: 5", 10", 20", 30", 40"

Material of Constructions

- Media:
 - Support:
- Hardware :
 - PP. SS core & adapter insert available Silicone, EPDM, NBR Viton®, Teflon®, E-FKM Sealing:

PP

PP



Performance

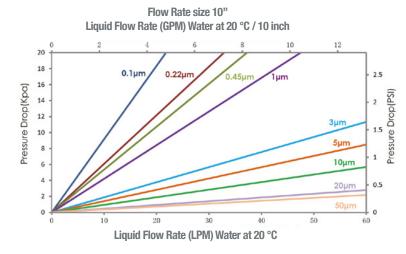
Max.Operating temperature: Max.Operating DP: 80 °C 4 bar @ 21°C, 2.4 bar @ 80 °C

Quality

- Filter Cartridges are manufactured in a clean room environment
- Manufactured according t o ISO9001:2015 certified Quality Management System

Food Contact Compliance

- Materials of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulations 21 CFR.
- Materials used to produce filter media and hardware meet the specifications for biological safety per USP Calss VI-121C for plastics.
- Filter cartridges passed European Commission Directives (EU10/2011)
- Halal Certified



Partie	Particle Removal Efficiency (µm)										
Membrane pore size identification	95% efficiency	99% efficiency									
0010	0.1 µm										
0022	0.22 µm										
0045	0.45 µm										
0065	0.65 µm										
0100		1 µm									
0300		3 µm									
0500		5 µm									
1000		10 µm									

Eg.=> CFPPP001P050AD0PSS0

				0	RDERING INFO	ORMATION				
Product Type	Remouval Rating	Removal Rating	Application	Size	Diameter	Endcap	Inner Core	Sealing Material	Connection Support	Revision
CFP = Pleated Cartridge	PP = Polypro	0010 = 0.1µm	P = Premier	05 = 5"	0A = OD:69 mm	D0 = DOE	P = Polypro	S = Silicone	S= Standard	0 = Rev.0
		$0022=0.22 \mu m$		10 = 10"		E2 = 213/Flat	U = SUS Steel	E = EPDM		
		$0045 = 0.45 \mu m$		20 = 20"		H1 = 222/Fin		B = NBR	Y = SS reinforcement	
		0100 = 1µm		30 = 30"		H2 = 222/Flat		V = Viton	(Endcap D0, E2, K1, K2, excluded)	
		0300 = 3µm		40 = 40"		H5 = 222/Spear Fin	1	F = E-FKM		
		0500 = 5µm				K1 = 222 Ext/Fir	ı		P = PSU reinforcement (Endcap G1, G2, only)	
		1000 = 10µm				K2 = 222 Ext/Flat	t			
		2000 = 20µm				G1 = 226/Fin				
		5000 = 50µm				G2 = 226/Flat				
						G5 = 226/Spear Fin	ı			

CFP series PP media Multi-Layers PP Pleated Filter Cartridges

CFP series Multi-Layers PP Pleated filter cartridges are comprised of multi-layers media. The unique construction results in a highly porous, continuous-ly graded pore structure with a tighter inner layer and several outer prefilter layers to substantially increase the dirt holding capacity. This filter structure provides excellent flow rates at low pressure drops and high throughputs while achieving submicron retentions, high efficiencies, and extraordinary dirt holding capacities. The filter media and its support structure are thermally welded to the end caps, making integral filter cartridges of minimum extractables in a wide range of fluids and applications. All the filter cartridges are manufactured in a clean room environment.

Features

- Gradient pore size structure
- 100% polypropylene components provide broad chemical compatibility, suitable for use in a variety of fluids
- Fixed filter matrix with no adhesives and surfactants providing consistent filtrate quality
- Meet FDA requirements for food contact and passes European Commission Directives (EU10/2011)

Applications

- Food & Beverage
- Plating Chemicals
- RO Pre-Filtration
- Fine Chemicals
- Process Water
- Colloid material filtration
- High viscosity liquids
- Fermentation liquids

Dimension

OD: 69 mm Length: 5", 10", 20", 30", 40"

Material of Constructions

PP PP

PP

EPDM, Viton®, E-FKM

- Media:
- Support:
- Cage/ Core/ Endcap:
- Sealing:

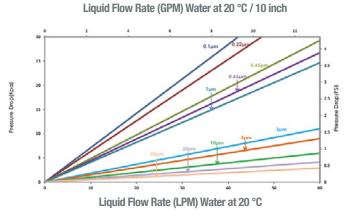
Performance

Max. Operating temperature: Max. Operating DP:

80 °C 4 bar @ 21 °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



Flow Rate size 10"

Food Contact Compliance

- Materials of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulations 21CFR.
- Materials used to produce filter media and hardware meet the specifications for biologicals afety per USP Calss VI-121C for plastics.
- Filter cartridgespassed European Commission Directives (EU10/2011)
- Halal Certified

	ORDERING INFORMATION											
Product Type	Membrane Type	Removal Rating	Application	Size	Diameter	Endcap	Inner Core	Sealing Material	Connection Support	Revision		
CFP = Pleated Cartridge	PP = Polypro	0010 = 0.1µm	M = M.layer Fil	05 = 5"	0A = OD:69 mm	D0 = DOE	P = Polypro	S = Silicone	S= Standard	0 = Rev.0		
		$0022=0.22 \mu m$		10 = 10"		E2 = 213/Flat	U = SUS Steel	E = EPDM				
		$0045 = 0.45 \mu m$		20 = 20"		H1 = 222/Fin		B = NBR	Y = SS reinforcement			
		$0100 = 1 \mu m$		30 = 30"		H2 = 222/Flat		V = Viton	(Endcap D0, E2, K1, K2, excluded)			
		0300 = 3µm		40 = 40"		H5 = 222/Spear Fin		F = E-FKM				
		0500 = 5µm				K1 = 222 Ext/Fin	1		P = PSU reinforcement (Endcap G1, G2, only)			
		1000 = 10µm				K2 = 222 Ext/Flat						
		2000 = 20µm				G1 = 226/Fin						
		$4000 = 40 \mu m$				G2 = 226/Flat						
		$5000 = 50 \mu m$				G5 = 226/Spear Fin						

Eg.=> CFPPP001P050AD0PSS0

CFP series Hydrophobic PTFE membrane

CFP series Hydrophobic PTFE membrane 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
- Max Operating DP

80 °C 4.5 bar @ 20 °C 2.4 bar @ 80 °C

Quality

- Filter Cartridges are manufacturered in a clean room environment
- Manufacturered 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	
		$0022=0.22 \mu m$		10 = 10"		E2 = 213/Flat	U = SUS Steel	E = EPDM			
		$0045 = 0.45 \mu m$		20 = 20"		H1 = 222/Fin		B = NBR	Y = SS reinforcement		
		0100 = 1µm		30 = 30"		H2 = 222/Flat		V = Viton	(Endcap D0, E2, K1, K2, excluded)		
		$0300 = 3 \mu m$		40 = 40"		H5 = 222/Spear Fin		F = E-FKM			
		0500 = 5µm				K1 = 222 Ext/Fir	1		P = PSU reinforcement (Endcap G1, G2, only)	t	
		$1000=10 \mu m$				K2 = 222 Ext/Flat					
						G1 = 226/Fin					
						G2 = 226/Flat					
						G5=226/Spear Fin	I.				

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

Length

Out Diameter EFA 5" (125 mm) / 10" (254 mm) / 20" (500 mm) 30" (750 mm) / 40" (1000 mm) 69 mm (2.72") 0.8 m² / 10"

Integrity Test Parameters

- Bubble Point (BP)
- Diffusion Flow (DF)
- Water Instrusion (WIT)

 \geq 1.1 bar @ IPA : Water 60 : 40 CFPPT0020Y \leq 16 ml / min @ 1035 mbar CFPPT0020S \leq 24 ml / min @ 1035 mbar CFPPT0020Y \leq 0.38 ml / min @ 2500 mbar CFPPT0020S \leq 0.75 ml / min @ 2500 mbar

Material of Constructions

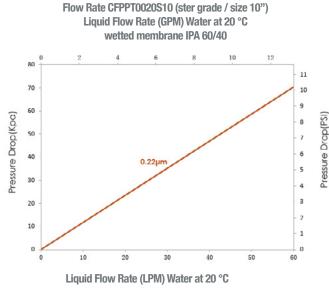
- Membranes:
- Support/Drainage:
- Cage/ Core/ Endcap:
- O-ring: .

Performance

Maximum operating temperature Maximum differential pressure

Sterilization

- Maximum Forward Steam Sterilization:



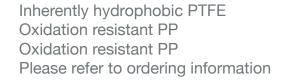
Quality

- Filter cartridges are manufacturered in a clean room environment
- Manufacturered 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"	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"						

- Inline Steam Sterilization:
- Maximum Reverse Steam Sterilization:



30 °C 2.4 bar @ 80 °C 5.2 bar @ 20 °C

135 °C / 30 min, 150 cycles 1 bar @ 125 °C 0.3 bar @ 142 °C 0.5 bar @ 125 °C 0.2 bar @ 142 °C

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 Length 2.72" (69mm) 5" (125mm) / 10" (254mm) 20" (500mm) 30" (750mm) 40" (1000mm)

Integrity Test Parameters

- Diffusion Flow (DF)
- Water Instrusion (WIT)

 \leq 20 ml/min @ 1035 mbar (60/40 IPA/Water) CFPPT0022U \leq 0.38 ml/min @ 2500 mbar CFPPT0022T \leq 0.75ml/min @ 2500 mbar

Material of Constructions

- Media
- Support
- Cage/End Cap
- Core
- Adapter

Pore Size

Gas Liquid

Performance

•	Max	Operating	Temperature
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Max Operating DP

Sterilization

- Inline Steam Sterilization
- Maximum Forward Steam Sterilization
- Maxinum Reverse Steam Sterilization

PTFE PP/PET High temperature resistance PP High temperature resistance PP/SS PP with insert

0.01 μm 0.2 μm

100 °C 5.2 bar @ 20 °C 2.4 bar @ 80 °C

135 °C / 30 min, 150 cycles dimension 1 bar @ 135 °C 0.3 bar @ 142 °C 0.5 bar @ 125 °C 0.2 bar @ 142 °C

Quality

- Filter cartridges are manufacturered in a clean room environment
- Manufacturered 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

							cy.=> 6777100221030An17310			
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"						

Eg.=> CFPPT0022T050AH1PSY0

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
- Length
 Filtration Area: H100A = H / 10" / OD:69mm = 0.9 m²
- Premier Filtration Area K100A = K / 10" / OD:69mm = 1.12 m²

Material of Constructions

- Media
- Support Netting
- Cage/Core/End Cap
- Seal Material

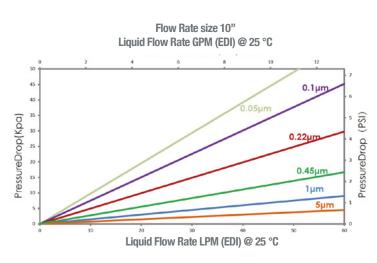
2.72" (69 mm) 3.3" (83 mm) Only 10 inch is available

10"/20"/30"/40"

 $H100H = H / 10" / OD:83mm = 1.51 m^2$

K100H = K / 10" / OD:83mm = 1.63 m²

Hydrophobic PTFE membrane PFA/PTFE PFA E-FKM





Performance

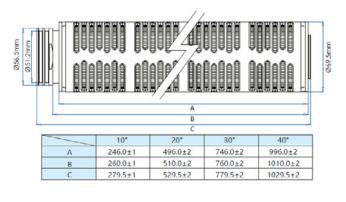
- Max Operating Temperature
- Max Operating DP

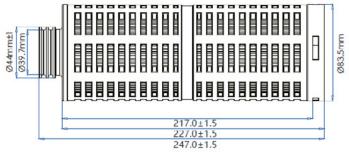
160 °C 5.0 bar @ 20 °C 2.0 bar @ 120 °C 135 °C / 30 min

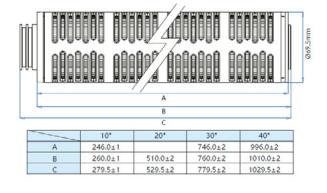
SIP

Quality

- Filter cartridges are manufacturered in a clean room environment
- Manufacturered 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	0005 = 0.05µm	H = High Chem	10 = 10"	0A = OD:69 mm	H2 = 222/Flat	F = PFA	F = E-FKM	S= Standard	2 = Prewet
		0010 = 0.1µm	K = P High Chem	20 = 20"	0H = OD:83mm (Size: 10, only)	G2 = 226/Flat				3 = No-Prewet
		$0020 = 0.20 \mu m$		30 = 30"						5 = H.CL Prew
		0045 = 0.45µm		40 = 40"						6 = H.CL No-Prew
		$0100 = 1 \mu m$								
		$0500 = 5 \mu m$								

CFP series Nylon membrane

CFP series Nylon membrane General Applications NY Pleated Filter Cartridges

CFP series Nylon membrane General Applications Pleated

Filter Cartridges are naturally hydrophillic due to polyamides

filter media. This filter media has a high porosity and uniform pore size distribution, giving to series products high flow rate, high retention ability and long service life.

Features

- Naturally hydrophilic, no need for pre-wetting
- High flow rate, low DP and long service life
- Excellent integrity provides good particle removal and sterilization efficiency
- · Non-contact welding adopted, no adhesives, low extractables
- Excellent chemical compactivity
- Tolerance for in-line steam sterilization
- Gross integrity

Applications

- Large volume parenterals (LVP) injections and antibiotic filtration
- Physiological saline solution and other solvents filtration of microorganism removal
- Pure Water and water-based filtration of microorganism removal

Dimension

 Out Diameter
 2,72" (69 mm)

 Length
 5" (125 mm),

 10" (254 mm)

5" (125 mm), 10" (254 mm) 20" (500 mm), 30" (750 mm) 40" (1000 mm)

Quality

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

Food Contact Compliance

- Materials of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulations 21 CFR.
- Materials used to produce filter media and hardware meet the specifications for biological safety per USP Calss VI-121C for plastics.
- Filter cartridges passed European Commission Directives (EU10/2011)
- Halal Certified

Material of Constructions

Filter medium	Nylon N66
Support/Drainage	PET
Cage/Core	Polypropylene
Endcap	Polypropylene and Insert

Performance

- Max Operating Temperature
- Max Operating DP
 Forward 4.0 bar @ 25 °C
 Forward 2.4 bar @ 80 °C
- SIP

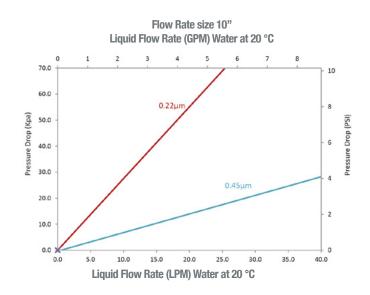
125 °C , 30min

Guarantees

- Manufactured in 100,000-class clean room environment
- Manufactured according to ISO9001:2015 certified quality management system

30 °C

- Meets USP Biological Reactivity Test Requirements of the current USP <88> for plastic class VI
- Extractables per 10 inch < 25 mg



Eg.=> CFPNY0010G050AD0PSS0

	ORDERING INFORMATION									
Product Type	Membrane Type	Membrane pore size	Application	Size	Diameter	Endcap	Inner Core	Sealing Material	Connection Support	Revision
CFP = Pleated Cartridge	NY = Nylon	0010 = 0.1µm	G = Gen Purpose	05 = 5"	0A = OD:69 mm	D0 = DOE	P = Polypro	S = Silicone	S= Standard (Endcap: D0, only)	0 = Rev.0
		0022 = 0.22µm		10 = 10"		H1 = 222/Fin	S = SS Steel	E = EPDM	Y = SS reinforced (Endcap: D0, excluded)	
		0045 = 0.45µm		20 = 20"		H2 = 222/Flat		B = NBR	P = PSU reinforced (Endcap: G1, G2, only)	
		0120 = 1.2µm		30 = 30"		G1 = 226/Fin		V = Viton		
				$40 = 40^{66}$		G2 = 226/Flat		K = FKM		
								F = E-FKM		

CFP Series -Glass Fiber media

CFP Series - Glass Fiber Media General Applications Glass Fiber Pleated Filter Cartridges

The CFP series General Applications Glass Fiber (GF) Pleated Filter cartridges are highly efficient, good for the pre-filtration of gas and vent, and can be effectively used in a variety of industrial applications. The cartridge offers a large surface area for high flow rates and high dirt holding capacity, also reduces labor costs with less changing of the filters.

Features

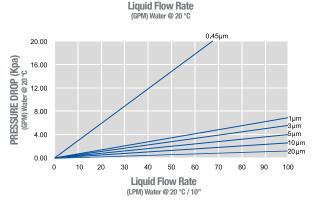
- Low pressure drops and high flow rates
- High filtration efficiency, up to 96%
- Excellent chemical compatibility
- · High dirt holding capacity and long service life

Applications

- Food & Beverage
- Chemicals & Oil
- Pharmaceutical
- Process Water Treatment
- Pre-filtration of vent & gas

Dimension

Diameter69 mmLength5", 10", 20", 30", 40"



Food Contact Compliance

- Materials of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulations 21CFR
- Materials used to produce filter media and hardware meet the specifications for biological safety per USP Class VI-121 °C for plastics
- Filter cartridges passed European Commission Directives (EU10/2011)
- Halal Certified

Material of Constructions

- Media
- Support
- Core/Cage/End Cap
- Seal Material

PP PP Silicone, EPDM, NBR, FKM, E-FKM

Performance

Operating Conditions	
Max. Operating Temperature	80 °C
Max. Operating DP	4.0 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

GF

								Ly.=> 011	u 00450050AD0r	000
ORDERING INFORMATION										
Product Type	Membrane Type	Membrane pore size	Application	Size	Diameter	Endcap	Inner Core	Sealing Material	Connection Support	Revision
CFP = Pleated Cartridge Filter	GF = Glass Fiber	0045 = 0.45µm	G = Gen Purpose	05 = 5"	0A = OD:69 mm	D0 = DOE	P = Polypro	S = Silicone	e S= Standard	0 = Rev.0
		$0100 = 1 \mu m$		10 = 10"		E2 = 213/Flat	S = SS Steel	E = EPDM		
		0300 = 3µm		20 = 20"		H1 = 222/Fin		B = NBR	Y = SS reinforcement	
		0500 = 5µm		30 = 30"		H2 = 222/Flat		V = Viton	(Endcap D0, E2, H1, H2, excluded)	
		$1000 = 10 \mu m$		40 = 40"		H5 = 222/Spear Fin	1	F = E-FKM		
		2000 = 20µm				K1 = 222 Ext/Fir	ı		P = PSU reinforcement (Endcap G1, G2, only)	
						K2 = 222 Ext/Flat	t			
						G1 = 226/Fin				
						G2 = 226/Flat				

G5 = 226/Spear Fin

Eg.=> CFPGF0045G050AD0PSS0

CARTFLOW

CFP Series - Glass Fiber media High Performance Glass Fiber Pleated Filter Cartridges

The CFP series High Performance Glass Fiber (GF) Pleated Filter cartridges are made of ultra-fine glass fiber. It has a high retention efficiency up to 96% which can effectively protect and prolong service life of terminal sterilization filters. It is widely used in the pre-filtration of gases etc.

Features

- No fiber releasing, very low leachables
- High flow rates and low pressure drops
- Excellent adsorption performance and high filtration efficiency
- All components comply with FDA regulations
- 100% integrity tested

Applications

- Remove particles in compressed gas, oil etc.
- Pre-filtration of gases in fermentation

Dimension

Diameter69 mmLength5", 10", 20", 30", 40"

Food Contact Compliance

- Materials of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulations 21CFR
- Materials used to produce filter media and hardware meet the specifications for biological safety per USP Class VI-121 °C for plastics
- Filter cartridges passed European Commission Directives (EU10/2011)
- Halal Certified

Material of Constructions GF

- Media
- Support
- Cage/Core/End PP
- O-Ring Silicone, EPDM, NBR, FKM, E-FKM

PP

Quality

- Filter Cartridges are manufacturered in a clean room environment
- Manufacturered according to ISO9001:2015 certified Quality Management System
- 100% integrity test

Performance

Operating Conditions

Max Operating Temperature Max. Operating DP	80 °C 4.0 bar @ 20 °C 2.4 bar @ 80 °C
Sterilization Autoclave Sterilization	121 °C , 60 min
Filtration Area Ø 69mm	0.45 m²/10" Filter cartridges
Extractables 10" Filter Cartridges	< 20 mg

y

Eg.=> CFPGF0010P50AD0PSS0

	ORDERING INFORMATION									
Product Type	Membrane Type	Removal Rating	Application	Size	Diameter	Endcap	Inner Core	Sealing Material	Connection Support	Revision
CFP = Pleated Cartridge	GF = Glass Fiber	0010=0.1µm	P = Premier	5 = 5"	0A = OD:69 mm	D0 = DOE	P = PP Core	S = Silicone	S= Standard	0 = Rev.0
		0030=0.3µm		10 = 10"		E2 = 213/Flat	S = SS Core	E = EPDM		
		0050=0.5µm		20 = 20"		H1 = 222/Fin		B = NBR	Y = SS reinforcement	
				30 = 30"		H2 = 222/Flat		V = FKM	(Endcap D0, E2, H1, H2, excluded)	
				40 = 40"		H5 = 222/Spear Fin		F = E-FKM		
						K1 = 222 Ext/Fin	I		P = PSU reinforcement (Endcap G1, G2, only)	
						K2 = 222 Ext/Flat				
						G1 = 226/Fin				
						G2 = 226/Flat				
						G2 = 226/Flat				

CFW series PP/Cotton/GF String Wound

CFW series PP/Cotton/GF String Wound High Dirt Filter Cartridges

CFW Series String Wound Filter Cartridges are manufactured of structured loose outer layers and tight inner layers to offer true depth filtration for high dirt holding capacity and extremely low media migration. The main advantage of the string wound filter cartridge is its exceptionally high structural strength. Therefore, they can withstand higher PSID and severe operating conditions. The economical design makes the cartridges of greater superiority in cost-saving.

Features

- Broad chemical compatibility
- Many different combinations of filter materials and pore sizes
- String Wound depth filter cartridge
- High dirt holding capacity
- Economical design

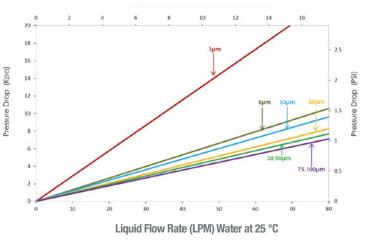
Applications

- Consumer Products
- Food and Beverage
- Drinking Water
- Pharmaceutical
- Edible Oil
- Inks & Paints
- Photographic
- Plating Solutions
- Petrochemicals
- Waste Water
- Chemicals
- Oil

Dimension

Out Diameter Inner Diameter Length

Flow Rate size 10" Liquid Flow Rate (GPM) Water at 25 °C



63 mm (2.5") , 115 mm (4.5") 28 mm 9.87", 10", 20", 30", 40"

Particle Removal Efficiency										
Membrane pore size identification	85% efficiency	95% efficiency								
CFW 0100	1									
CFW 0500	5									
CFW 1000	10									
CFW 2000		20								
CFW 3000		30								
CFW 5000		50								
CFW 7500		75								
CFW 10000		100								



Material of Constructions

• Media

•

Inner Core

Performance

• Max. operating temperature

PP, Bleached Cotton, Glass Fiber PP, SS

PP: 80 °C Cotton: 120 °C Glass Fiber: 200 °C

Max. pressure drop

2.0 bar @ 25 °C

Eg.=> CFWCW0100D98MD0P0S0

	ORDERING INFORMATION									
Product Type	Membrane Type	Membrane pore size	Application	Size	Diameter	Endcap	Inner Core	Sealing Material	Connection Support	Revision
CFW = String Wound Cartridge	CW = Cotton S.W.	0010=0.1µm	D = High Dirt	98 =9.87"	0M = OD:63 mm	F = DOE	P = Polypro	O = No seal Mat	S= Standard	0 = Rev.0
	PW = Polypro S.W.	0030=0.3µm		10 = 10"	0L = OD:115 mm	M = 222 / Flat	S = SS Steel	S = Silicone		
	GW = Glass Fiber S.W.	0050=0.5µm		20 = 20"		T = 226 / Flat		E = EPDM		
				30 = 30"		P = 222 / Fin		B = NBR		
				40 = 40"		Q = 226 / Fin		V = Viton		
						H = 213 / Flat				
						E = 222 Extended / Fin				
						N =222 Extended / Flat				
						W= 222 Spear Fin				

CFM series PP Melt Blown

CFM series PP Melt Blown PP Melt Blown Standard Filter Cartridges

CFM series PP Melt Blown Standard Filter Cartridges are fused and intertwined with polypropylene resin without any chemical glues. The cartridge is glued at random to form 3D micro porea which will make the cartridge's 3 layers with fibers on the surface and inside. With the fiber, density from high filtration rating, strong pollutants hold capacity, low pressure drop, gradual changing structure loose outside and close inside, it can remove contaminant effectively,-such as suspended substance, particulate and rust, providing efficient filtration and long service life.



Applica	ations
----------------	--------

- R.O. Pre-filtration
- Food and Beverage
- Industry Water, Plating Solution
- Chemical, Organic Solvent Filtration
- Microelectronics
- Pharmaceutics

Particle Removal Efficiency								
Membrane pore size identification	85% efficiency	90% efficiency						
1	1							
3	3							
5	5							
10		10						
25		25						
50		50						
75		75						
100		100						

Material of Constructions

- Media
- End Cap
- Sealing
- Core

Dimension

Out Diameter Inner Diameter Length

Performance

- Max Operating Temperature
- Max Operating DP

Liquid Flow Rate (GPM) Water at 20 °C 2 з 16.00 14.00 2.00 Pressure Drop (PSI) 12.00 Pressure Drop (Kpa) 10.00 8.00 6.00 4.00 2.00 0.00 0.00 10.00 15.00 20.00 25.00 30.00 35.00 40.00 Liquid Flow Rate (LPM) Water at 20 °C

Flow Rate size 10"

PP PP Silicone, EPDM, NBR, Viton[®] PP

63 mm (2.5") , 115 mm (4.5") 28 mm 9,87", 10", 20", 30", 40"

65 °C 2.0 bar @ 21 °C



Tested and certified by NSF international to NSF/ANSI 42 for material requirement only.

Eg.=> CFMPP0100G97ZBD4X7X0

	ORDERING INFORMATION								
Product Type Membrane Type	Membrane pore size	Application	Size	Diameter	Endcap	Inner Core	Sealing Material	Connection Support	Revision
CFM = Meltblown Cartridge PP = Polypro,	0100 = 1µm	G =Gen Purpose	97 = 9.75"	ZB = 28/63mm	D4 = DOE no Endcap	X = No core	O = No seal mat	X= No supp	0 = Rev.0
	$0300 = 3 \mu m$		98 = 9.87"	ZD = 28/115mm	D5 = DOE PE gasket	P = Polypro	B = NBR		
	0500 = 5µm		10 = 10"		H1 = 222/Fin		E = EPDM		
	1000 = 10µm		20 = 20"		H2 = 222/Flat		V = Viton		
	2500 = 25µm		30 = 30"		G1 = 226/Fin				
	5000 = 50µm		40 = 40"		G2 = 226/Flat				
	7500 = 75µm								
	X100 = 100µm								

CFM series PP Melt Blown PP Melt Blown Deep Groove Filter Cartridges

CFM series PP Melt Deep Groove Filter Cartridges are fused and intertwined with polypropylene resin without any chemical glues. The cartridge is glued at random to form 3D micro porea which will make the cartridge's 3 layers with fibers on the surface and inside. With the fiber, density from high filtration rating, strong pollutants hold capacity, low pressure drop, gradual changing structure loose outside and close inside, it can remove contaminant effectively,-such as suspended substance, particulate and rust, providing efficient filtration and long service life.



Applications

- R.O. Pre-filtration
- Food and Beverage
- Industry Water, Plating Solution
- Chemical, Organic Solvent Filtration
- Microelectronics
- Pharmaceutics

Dimensions

- Outer Diameter
- Inner Diameter
- Length

Material of Constructions

Media End Cap Sealing Core 63 mm , 115 mm 28 mm 9.75", 9.87", 10", 20", 30", 40"

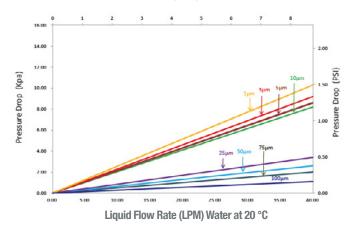
PP PP Silicone, EPDM, NBR, Viton® PP

Performance

- Max Operating Temperature Max Operating DP
- •

Particle Removal Efficiency									
Membrane pore size identification	85% efficiency	90% efficiency							
1	1								
3	3								
5	5								
10		10							
25		25							
50		50							
75		75							
100		100							

Flow Rate Per 10" Liquid Flow Rate (GPM) Water at 20 °C



65 °C 2.0 bar @ 21 °C



Tested and certified by NSF international to NSF/ANSI 42 for material requirement only.



ORDERING INFORMATION										
Product Type	Membrane Type	Membrane pore size	Application	Size	Diameter	Endcap	Inner Core	Sealing Material	Connection Support	Revision
CFM = Meltblown Cartridge	PP = Polypro	0100 = 1µm	E =Deep Gr	97 = 9.75"	ZB = 28/63mm	D4 = DOE No Endcap	X = No core	O = No seal mat	X= No supp	0 = Rev.0
		0300 = 3µm		98 = 9.87"	ZD = 28/115mm	D5 = DOE PE gasket	P = Polypro	B = NBR		
		$0500 = 5 \mu m$		10 = 10"		H1 = 222/Fin		E = EPDM		
		$1000 = 10 \mu m$		20 = 20"		H2 = 222/Flat		V = Viton		
		2500 = 25µm		30 = 30"		G1 = 226/Fin				
		$5000 = 50 \mu m$		40 = 40"		G2 = 226/Flat				
		$7500 = 75 \mu m$								
		X100 = 100µm								

Eg.=> CFMPP0100E97ZBD4X7X0





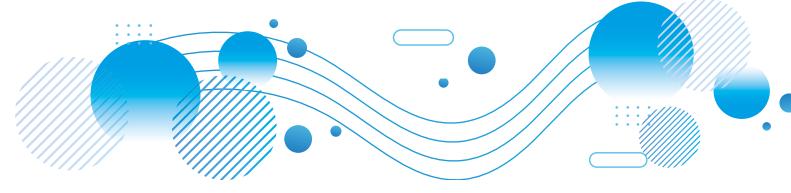
HOUSFLOW

CHR Series - Stainless steel filter Housing

GVS stainless steel filter housings are designed for filtration of gas, liquid and steam filtration. The top of the housing is equipped with a Clamp connection for ancillary equipment such as pressure relief valves or pressure gauges. The lowest point of the housings are equipped with pharma valves or vent/drain connections. Filter housings are designed to yield low differential pressure at high flow rates.

Gas and steam series filter housings have been developed for the purification of compressed air, steam and other technical gases in industrial ranges of application. Due to the optimized construction they offer low differential pressure at high flow rates. Numerous different sizes of housings with various connections make it possible to adopt the filter system to exactly the needed requirements.

Liquid series filters are used in the filtration of liquid materials in the pharmaceutical, food and beverage, chemical, microelectronics and other industries. Filter housings are available in many different sizes, offering a wide range of capacity depending on element selection.



Typical Application



Pharmaceutical Industry



Food & Beverage



Chemical Industry

Features and Benefits

- High quality stainless steel design
- Extremely low differential pressure
- Various connection types
- Different structures are suitable for filtration systems with
- different media such as gas, liquid and steam
- Full traceability to each filter with unique serial number

Material of Constructions

Filter Housing: Attachment Parts: Housing Gasket:

Surface Finish

Inner Surface Finish: Outer Surface Finish:

Operating Conditions

Maximum operating temperature

316L SS or 304 SS 316L SS or 304 SS Silicone, PTFE, Viton (other gaskets on request)

Ra < 0.4 μm Ra < 0.8 μm

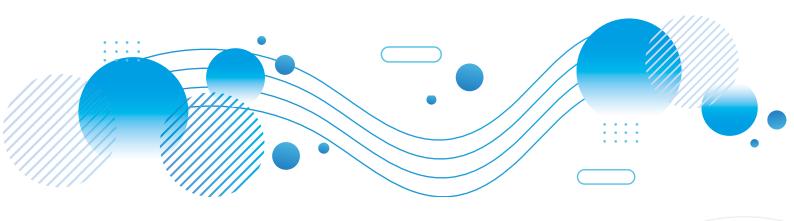
Up to 200 °C depending on filter element selection and gasket material

Maximum operating pressure

Connection Types

Union Connection Ferrule Connection BSP thread connection DIN flange Welded ends 10 bar (some products are 16 bar)

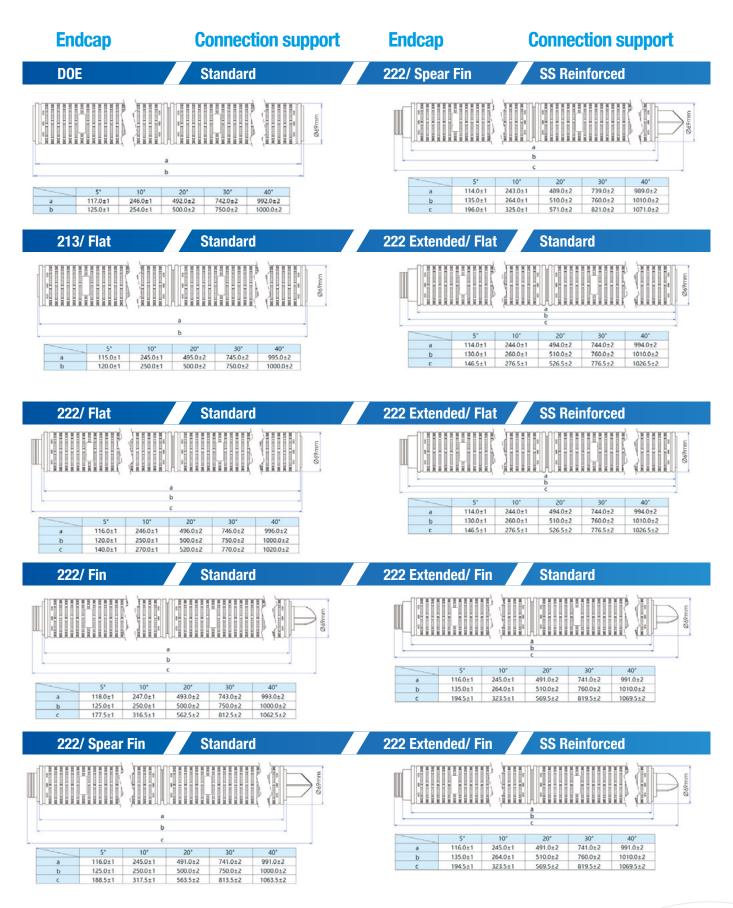
For more informations consult the HOUSFLOW catalog



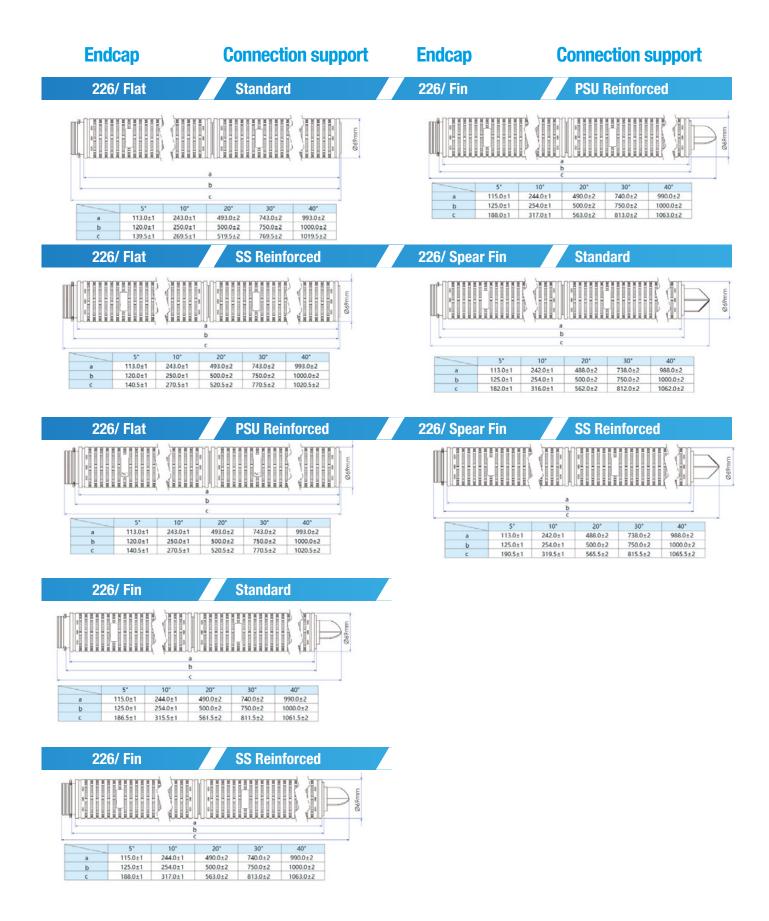


APPENDIX

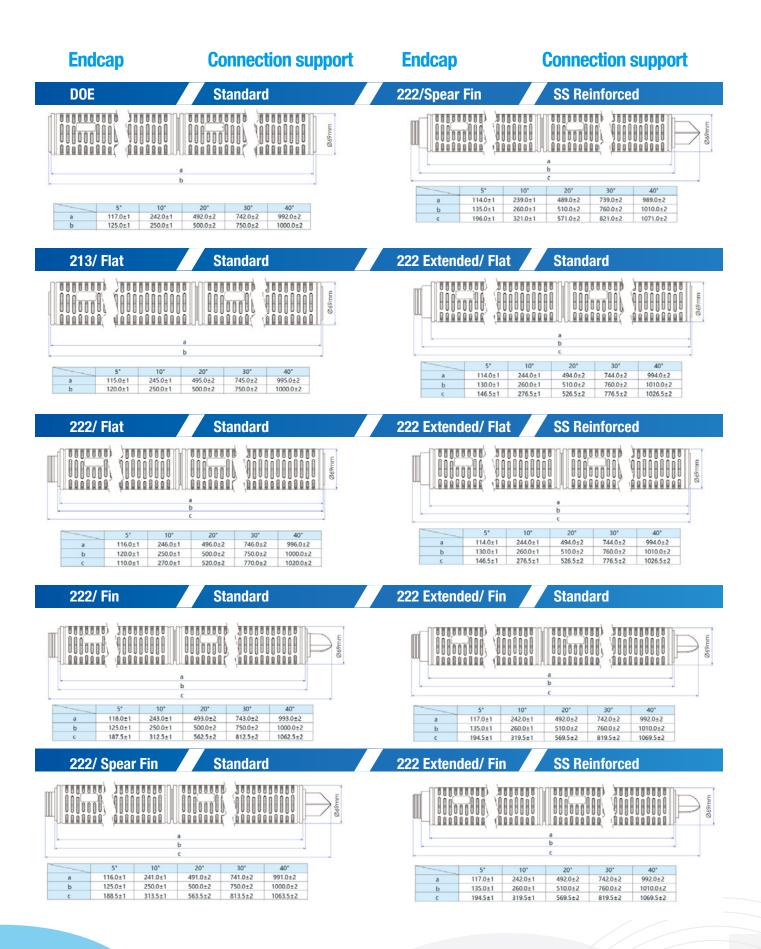
CARTFLOW DIMENSIONS Pleated cartridge membrane: PES, PSU, PTFE, Nylon



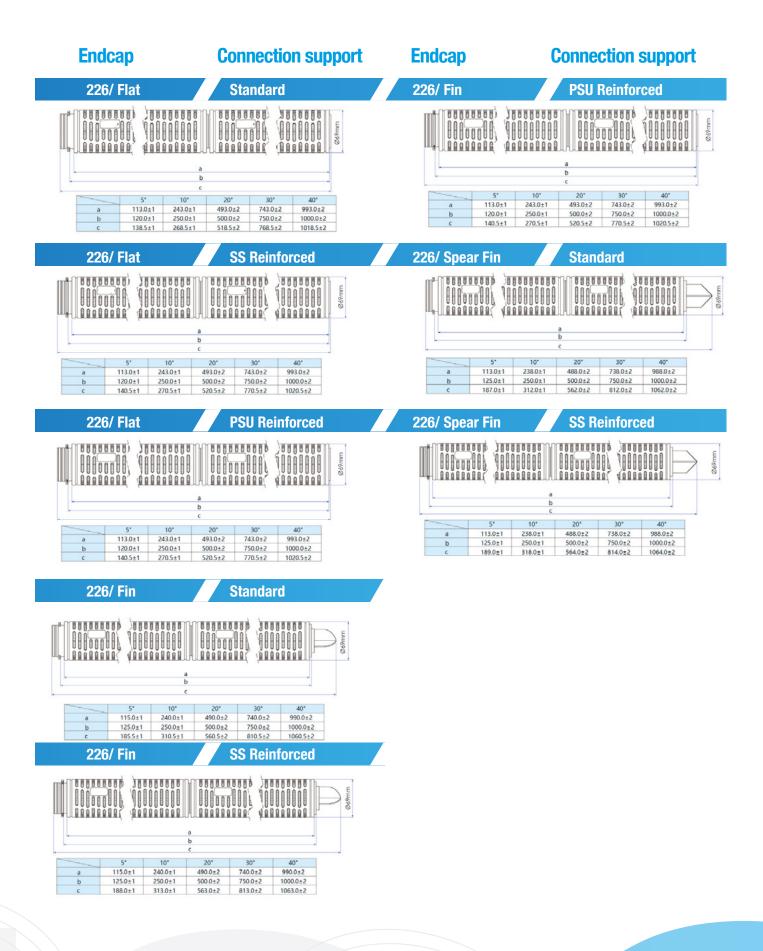
CARTFLOW DIMENSIONS



CARTFLOW DIMENSIONS Pleated cartridge media: PP



CARTFLOW DIMENSIONS







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PRODUCT COLLECTION - Cartflow Catalog

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