颇勒过滤
PULLNER

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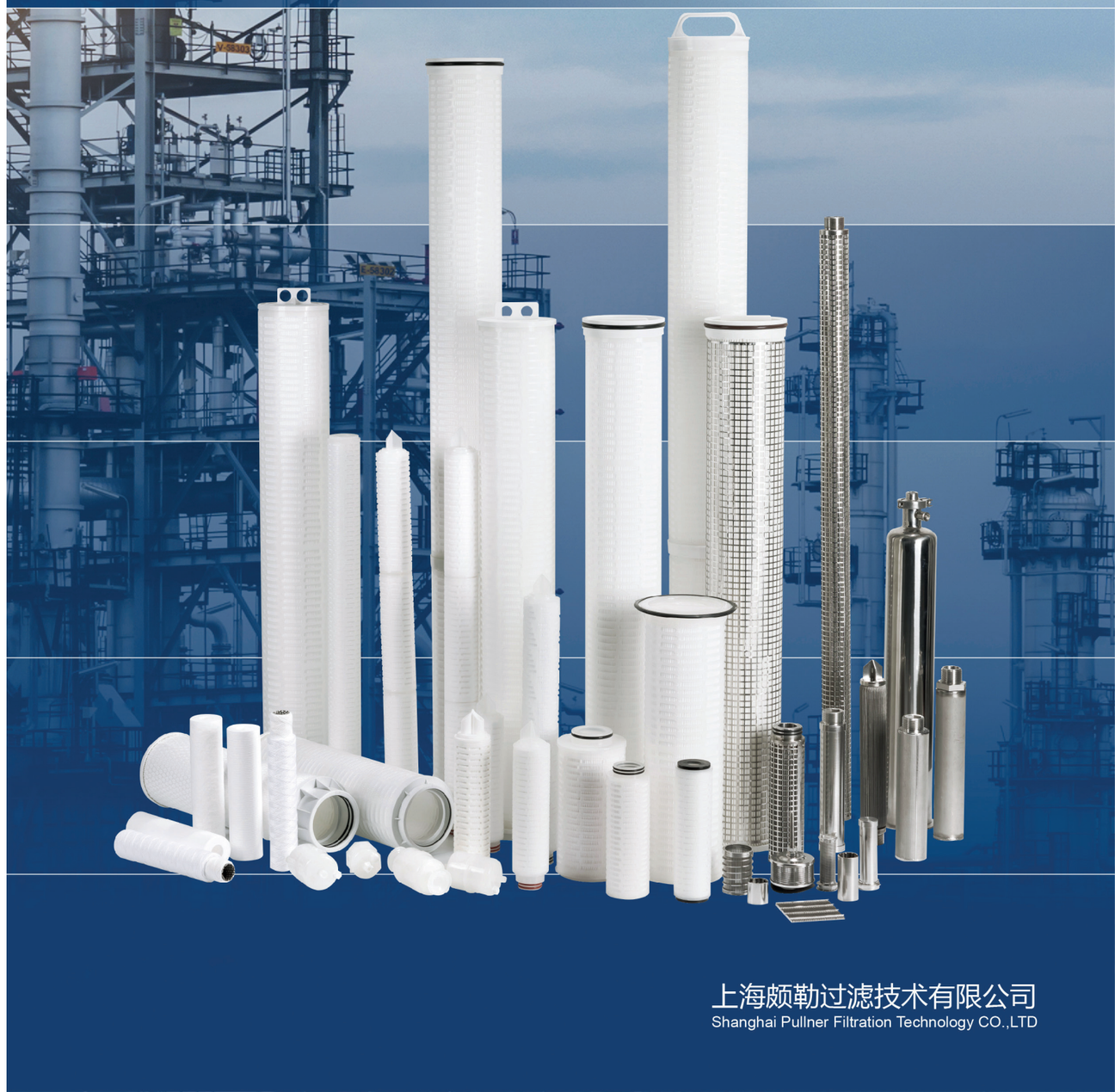
颇勒过滤
PULLNER

Liquid & Gas Filtration
全流体过滤



上海颇勒过滤技术有限公司
Shanghai Pullner Filtration Technology CO.,LTD

目 录

PPL Series

--Nominal Rating Polypropylene Filter Cartridge

PPL series pleated filter cartridges are made of Polypropylene (PP) membrane. The characteristics of high flow rate and high dirt holding capacity make it the cost-effective pre-filter, which is widely used in various fields such as pharmaceutical, electronics, chemical industry, food and beverage, etc. The all-polypropylene structure provides a wide range of chemical compatibility and can filter most acids, alkalis and solvents.

Material Construction

Filter Media	Polypropylene (PP)
Support/Drainage	Polypropylene (PP)
Cage/Core/End caps	Polypropylene (PP)

Performance

Maximum Operating Temperature	80°C
Maximum Operating Difference Pressure	4bar/21°C 2.4bar/80°C

Chemical Compatibility

Acid	R	Benzene	NR	MEK	R
Alkali	R	Methylbenzene	NR	MIBK	R
Alcohol	R	Xylene	NR	Dichloromethane	LR
Lipid	R	Arene	NR	Ethylene dichloride	LR
Acetone	R	Cyclohexanone	R	Perchloroethylene	LR

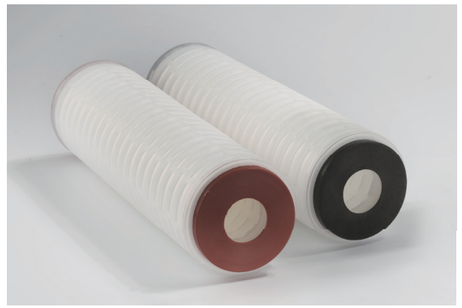
*R: Resistance NR: No Resistance LR: Limited Resistance

Ordering Information

PPL	0100	10	C1	E
Series	Micron	Length	End Cap	Seal Material
PPL	0020=0.2μm	05=5"	C1=226/Spear	E=EPDM
	0045=0.45μm	10=10"	C2=222/Spear	S=Silicone
	0100=1.0μm	20=20"	C5=222/Flat	V=Viton
	0300=3.0μm	30=30"	C6=226/Flat	P=FEP
	0500=5.0μm	40=40"	C9=DOE	
	1000=10μm			
	2000=20μm			

PPM Series

--High Viscosity Polypropylene Filter Cartridge



PPM series pleated filter combines the characteristics of depth filtration and pleat technology, ensure high dirt holding capacity and bigger filtration area. It's suitable for filtering high suspended particles, colloidal substances and high viscosity liquids.

Material Construction

Filter Media	Polypropylene (PP)
Support/Drainage	Polypropylene (PP)
Cage/Core/End Cap	Polypropylene (PP)

Performance

Maximum Operating Temperature	80°C
Maximum Operating Difference Pressure	4bar/21°C 2.4bar/80°C

Filtration Efficiency

PPM	> 95%	> 98%	> 99.8%	> 99.9%
0.3μm	0.15	0.22	0.25	0.3
0.5μm	0.22	0.4	0.45	0.5
1.0μm	0.5	0.65	0.8	1.0
5.0μm	1.5	2.0	2.5	3.0

Ordering Information

PPM	0300	10	C1	E
Series	Micron	Length	End Cap Type	Seal Material
PPM	0030=0.3μm	05=5"	C1=226/Spear	E=EPDM
	0050=0.5μm	10=10"	C3=222/Spear	S=Silicone
	0100=1.0μm	20=20"	C5=222/Flat	V=Viton
	0300=3.0μm	30=30"	C6=226/Flat	P=FEP
	0500=5.0μm	40=40"	C9=DOE	

PPH Series

--Absolute Rating Polypropylene Filter Cartridge

PPH series filter cartridge adopts all-polypropylene structure, double-layer gradient precision PP membrane. High dirt holding capacity, long service life and high efficiency.

Material Construction

Filter Media	Polypropylene (PP)
Support/Drainage	Polypropylene (PP)
Cage/Core/End Caps	Polypropylene (PP)

Performance

Maximum Operating Temperature	80°C
Maximum Operating Difference Pressure	4bar/21°C 2.4bar/80°C

Filtration Efficiency

PPH	> 95%	> 98%	> 99.8%	> 99.9%
0.3μm	0.15	0.22	0.3	0.5
0.5μm	0.22	0.3	0.5	0.65
0.65μm	0.45	0.5	0.65	0.8
0.8μm	0.5	0.65	0.8	1.0
1.0μm	0.65	0.8	1.0	3.0
3.0μm	1.0	2.0	3.0	5.0

Ordering Information

PPH	0100	10	C1	E
Series	Micron	Length	End Cap Type	Seal material
PPH	0030=0.3μm	05=5"	C1=226/Spear	E=EPDM
	0050=0.5μm	10=10"	C3=222/Spear	S=Silicone
	0065=0.65μm	20=20"	C5=222/Flat	V=Viton
	0080=0.8μm	30=30"	C6=226/Flat	P=FEP
	0100=1.0μm	40=40"	C9=DOE	
	0300=3.0μm			
	0500=5.0μm			
	1000=10μm			

HPPV Series

--High Dirt Holding Capacity Polypropylene Filter Cartridge

HPPV series filter cartridge adopts multi-layer Nano-fiber material, gradient structure design, and has high dirt holding capacity. The large-to-small graded pore size makes the filter cartridge has stronger dirt holding capacity, which can effectively improve surface clogging problem and extend filter service life. It is suitable for high suspended particles, colloidal substances, and high-viscosity liquids.

Material Construction

Filter Media	Polypropylene (PP)
Support/Drainage	Polypropylene (PP)
Cage/Core/End Caps	Polypropylene (PP)

Performance

Maximum Operating Temperature	80°C
Maximum Operating Difference Pressure	4bar/21°C 2.4bar/80°C

Filtration Efficiency

PPH	＞95%	＞98%	＞99.8%	＞99.9%
0.3μm	0.15	0.22	0.3	0.5
0.5μm	0.22	0.3	0.5	0.65
0.65μm	0.45	0.5	0.65	0.8
0.8μm	0.5	0.65	0.8	1.0
1.0μm	0.65	0.8	1.0	3.0
3.0μm	1.0	2.0	3.0	5.0

Ordering Information

HPPV	0500	10	C1	E
Series	Micron	Length	End Cap Type	Seal Material
HPPV	0050=0.5μm	05=5"	C1=226/Spear	E=EPDM
	0080=0.8μm	10=10"	C3=222/Spear	S=Silicone
	0100=1.0μm	20=20"	C5=222/Flat	V=Viton
	0300=3.0μm	30=30"	C6=226/Flat	P=Teflon
	0500=5.0μm	40=40"	C9=DOE	
	1000=10μm			
	2000=20μm			
	4000=40μm			
	7000=70μm			
	9000=90μm			

HFPS Series

--High Flow PES Membrane Filter Cartridge

HFPS series filter cartridge adopts imported asymmetric Polyethersulfone (PES) membrane, which has natural hydrophilicity, high precision grade, long service life and high throughput. The highest absolute rating can reach 0.02μm, ensuring the effluent quality is ultrapure water, and strictly controlling pollution to meet the water quality standards of the pure water industry.

Material Construction

Filter Media	Asymmetric Polyethersulfone (PES) membrane
Support/Drainage	Polypropylene (PP)
Cage/Core/End Cap	Polypropylene (PP)

Performance

Maximum Operating Temperature	80°C
Maximum Operating Difference Pressure	4bar/21°C 2.4bar/80°C

Filtration Micron and Filtration Area

Filtration Micron (μm)	Filtration Area(m^2/10")
0.02, 0.03, 0.05, 0.1	1.02
0.1, 0.22, 0.45, 0.65, 1.2	0.66

Chemical Compatibility

Benzene	NR	Carbon tetrachloride	GNR
Acetone	GNR	Alcohol	GR
CYC	GNR	1NHCL	GR
Dimethylsulfoxide	NR	6NHCL	GR

*NR: No Recommend GR: General Recommend GNR: General No Recommend

Ordering Information

HFPS	0022	10	C1	E
Series	Micron	Length	End Cap Type	Seal material
HFPS	0002=0.02μm	05=5"	C1=226/Spear	E=EPDM
	0003=0.03μm	10=10"	C3=222/Spear	S=Silicone
	0005=0.05μm	20=20"	C5=222/Flat	V=Viton
	0010=0.1μm	30=30"	C6=226/Flat	P=FEP
	0022=0.22μm	40=40"	C9=DOE	
	0045=0.45μm			
	0065=0.65μm			
	0120=1.2μm			

PFL/PFLH Series

--PTFE Membrane Filter Cartridge

PFL series filter cartridge is made of natural hydrophobic Polytetrafluoroethylene (PTFE) membrane, which has excellent corrosion resistance to organic and inorganic chemicals, and is suitable for sterilization filtration for strong corrosive and strong oxidizing liquids.

PFLH series filter cartridge adopts modified hydrophilic Polytetrafluoroethylene (PTFE) membrane, which has stable hydrophilic performance and can be filtered directly without pre-wetting. The PTFE stretch membrane has excellent corrosion resistance, oxidation resistance, organic solvent resistance, and a wide range of chemical compatibility. It is especially suitable for particle filtration and sterilization filtration of chemical reagents, corrosive liquids, and strong oxidizing liquids.

Material Construction

Filter Media	PFL: PTFE(Hydrophobicity) PFLH: PTFE(Hydrophilic)
Support/Drainage	Polypropylene (PP)
Cage/Center Core/End Cap	Polypropylene (PP)

Performance

Maximum Operating Temperature	80°C
Maximum Operating Differential Pressure	4bar/21°C

Biological Safety

Dissolved Matter	<30mg
	<0.25EU/ml

Ordering Information

PFL	0022	10	C1	E
Series	Micron	Length	End Cap Type	Seal Material
PFL PFLH	0050=0.05μm	05=5"	C1=226/Spear	E=EPDM
	0010=0.1μm	10=10"	C3=222/Spear	S=Silicone
	0022=0.22μm	20=20"	C5=222/Flat	V=Viton
	0045=0.45μm	30=30"	C6=226/Flat	P=FEP
	0100=1.0μm	40=40"	C9=DOE	
	0300=3.0μm			
	0500=5.0μm			
	1000=10μm			

PFA Series

--All-fluoropolymer Filter Cartridge

PFA series filter cartridge adopts hydrophilic Polytetrafluoroethylene (PTFE) filter membrane, and the outer cage, center core and end cap are all made of PFA material, which makes the filter element have particularly excellent chemical corrosion resistance and low precipitation characteristics. To ensure that the filter element can be highly efficient, long-term filtration of strong corrosive acids, alkalis and organic solvents, etc.

Material Construction

Filter Media	PFA: PTFE(Hydrophilic)
Support/Drainage	PFA
Cage/Core/End Cap	PFA

Performance

Maximum Operating Temperature	170°C
Maximum Operating Differential Pressure	4bar/21°C 2.4bar/80°C

Biological Safety

Dissolved Matter	<30mg/10"
	<0.25EU/ml/10"

Ordering Information

PFA	0500	10	C5	P
Series	Micron	Length	End Cap Type	Seal Material
PFA	0002=0.02μm	05=5"	C5=222/Flat	P=FEP
	000=0.05μm	10=10"		
	0010=0.1μm	20=20"		
	0022=0.22μm			
	0045=0.45μm			
	0100=1.0μm			
	0300=3.0μm			
	0500=5.0μm			
	1000=10μm			

PVDF/PVDFH Series

--All-Teflon PTFE Filter Cartridge

PVDF series filter adopts hydrophobic PTFE/hydrophilic PTFE filter membrane, and the outer cage, center core and end cap are all made of PVDF material, which makes the filter element has particularly excellent chemical resistance performance. At the same time, it has low precipitation, ensuring the filter element can be highly efficient, long-term filtering of strong corrosive acids, alkalis and organic solvents, etc.

Material Construction

Filter Media	PVDF:PTFE (Hydrophobicity) PVDFH:PTFE (Hydrophilic)
Cage/Core/End Cap	PVDF

Performance

Maximum Operating Temperature	100°C
Maximum Operating Differential Pressure	4bar/21°C 2.4bar/80°C

Biological Safety

Dissolved Matter	<30mg/10"
	<0.25EU/ml/10"

Ordering Information

PVDF	0010	10	C5	P
Series	Micron	Length	End Cap Type	Seal Material
PVDF PVDFH	0002=0.02μm	05=5"	C5=222/Flat	P=FEP
	000=0.05μm	10=10"		
	0010=0.1μm	20=20"		
	0020=0.2μm			
	0050=0.5μm			
	0100=1.0μm			
	0300=3.0μm			
	0500=5.0μm			
	1000=10μm			

130 Series

--Pleated Filter Cartridge (φ130mm)

130 series pleated Filter Cartridge is mainly used in processes with high flow requirements. The 130 series filter can reach the flow requirement of more than 200L/min. The exquisite appearance structure can fully meet the requirements of the equipment for space. The filtration area of a single filter element of more than $2m^2$ has the performance of high flow and high dirt holding capacity, which can reduce the number of equipment downtime caused by filter cartridge change-out.

Material Construction

Filter Media	PFL:PTFE(Hydrophobicity） EPS:PES	PFLH:PTFE(Hydrophilic) HPPV:PP
Cage/Core/End Caps	Polypropylene (PP)	

Performance

Maximum Operating Temperature	80°C
Maximum Operating Difference Pressure	4bar/21°C 2.4bar/80°C

Biological Safety

Dissolved Matter	<30mg/10"
	<0.25EU/ml/10"

Ordering Information

130	PFL0020				10	S	E
Series	Micron				Length	End Cap Type	Seal Material
	PFL	PFLH	EPS	HPPV			
130	0020=0.2μm	0020=0.2μm	0005=0.05μm	0050=0.5μm	10=10"	S=334 Single O-ring	E=EPDM
	0050=0.5μm	0050=0.5μm	0010=0.1μm	0100=1.0μm			S=Silicone
	0100=1.0μm	0100=1.0μm	0022=0.22μm	0150=1.5μm			V=Viton
	0300=3.0μm	0300=3.0μm	0045=0.45μm	0300=3.0μm			
	0500=5.0μm	0500=5.0μm	0065=0.65μm	0500=5.0μm			
	1000=10μm	1000=10μm	0120=1.2μm	1000=10μm			
				2000=20μm			
				4000=40μm			
				7000=70μm			
				9000=90μm			

83 Series

--Pleated Filter Cartridge (Φ80mm)

83 series pleated filter cartridge is specially designed for the wet process filtration of FPD (flat-panel display) manufacturing. It has larger filtration area and higher flow rate, which can meet the flow demand of 120L/Min for the 5-6 generation line.

Material Construction

Filter Media	PFL:PTFE(Hydrophobicity EPS:PES	PFLH:PTFE(Hydrophilic) HPPV:PP
Cage/Core/End Caps	Polypropylene (PP)	

Performance

Maximum Operating Temperature	80°C
Maximum Positive Difference Pressure	4bar/21°C 2.4bar/80°C

Biological Safety

Dissolved Matter	<30mg/10"
	<0.25EU/ml/10"

Ordering Information

83					PFL0020				10	C5	E
Series	Micron								Length	End Cap Type	Seal Material
	PFL		PFLH		EPS		HPPV				
83	0020=0.2μm		0020=0.2μm		0005=0.05μm		0050=0.5μm		10=10"	C5=222/Flat	E=EPDM
	0050=0.5μm		0050=0.5μm		0010=0.1μm		0100=1.0μm			C6=226/Flat	S=Silicone
	0100=1.0μm		0100=1.0μm		0022=0.22μm		0150=1.5μm				V=Viton
	0300=3.0μm		0300=3.0μm		0045=0.45μm		0300=3.0μm				
	0500=5.0μm		0500=5.0μm		0065=0.65μm		0500=5.0μm				
	1000=10μm		1000=10μm		0120=1.2μm		1000=10μm				
							2000=20μm				
							4000=40μm				
							7000=70μm				
							9000=90μm				

PN Series

--Nylon Membrane Filter Cartridge

PN6/PN66 series filter cartridges are made of natural hydrophilic Nylon6/Nylon66 membranes. High porosity and uniform micropore distribution are the main characteristics of the filter material, with large flow rate, long use life, and superior chemical compatibility.
PND66 series filter cartridge is made of double-layer membrane, has higher filtration efficiency, gradient precision configuration, and longer service life.

Material Construction

Filter Media	PFL: PTFE(Hydrophobicity) PFLH: PTFE(Hydrophilic)
Support/Drainage	Polypropylene
Cage/Core/End Caps	Polypropylene

Performance

Maximum Operating Temperature	80°C
Maximum Operating Differential Pressure	4bar/21°C 2.4bar/80°C

Chemical Compatibility

Benzene	R	CCl4	R
Xylene	R	Tetrahydrofuran	R
Acetone	R	Gasoline	NR
Trichloroethylene	R	Acid	NR

*R: Recommend NR: No Recommend

Ordering Information

PN66	0010	10	C1	E
Series	Micron	Length	End Cap Type	Seal material
PN6	0010=0.1μm	05=5"	C1=226/Spear	E=EPDM
PN66	0022=0.22μm	10=10"	C3=222/Spear	S=Silicone
	0045=0.45μm	20=20"	C5=222/Flat	V=Viton
	0120=1.2μm	30=30"	C6=226/Flat	P=FEP
		40=40"	C9=DOE	
PND66	1010=0.1+0.1μm			
	2222=0.22+0.22μm			
	4522=0.45+0.22μm			
	4545=0.45+0.45μm			

PBT Series

-- All Polyester (PET) Filter Cartridge

PBT series filter cartridge is made of all Polyester (PET) material, which can meet the precision filtration of benzene, toluene and other liquids containing aromatic hydrocarbon solvents. The Polyester material has good temperature and pressure resistance, can withstand 120 ℃ high temperature for a week, and 4 bar working pressure difference.

Material Construction

Filter Media	Polyester (PET)
Support/Drainage	Polyester (PET)
Cage/Core/End Caps	Polyester (PET)

Performance

Maximum Operating Temperature	120°C
Maximum Operating Differential Pressure	4bar/21°C 2.4bar/80°C

Chemical Compatibility

Benzene	R	CCl4	R
Xylene	R	Tetrahydrofuran	R
Acetone	R	Gasoline	NR
Trichloroethylene	R	Acid	NR

*R: Recommend NR: No Recommend

Ordering Information

PBT	0020	10	C1	E	
Series	Micron	Length	End Cap Type	Seal material	
PBT	0020=0.2μm	05=5"	C1=226/Spear	E=EPDM	
	0045=0.45μm	10=10"	C3=222/Spear	S=Silicone	
	0100=1.0μm	20=20"	C5=222/Flat	V=Viton	
	0500=5.0μm	30=30"	C6=226/Flat	P=FEP	
	1000=10μm	40=40"	C9=DOE		
	2500=25μm				
	5000=50μm				

PLGF Series

--Glass Microfiber Filter Cartridge for Liquid

PLGF series filter cartridge is made of ultra-fine Glass fiber material, has high dirt holding capacity and inherent adsorption effect. It is suitable for filtering liquids containing colloids, grease and high particle content. The glass fiber filter cartridge has good particle interception efficiency up to 98%, and low initial differential pressure, large flow rate, and long service life.

Material Construction

Filter Media	Ultrafine Glass fiber
Support/Drainage	Polypropylene (PP)
Cage/Core/End Caps	Polypropylene (PP)

Performance

Maximum Operating Temperature	80°C
Maximum Operating Differential Pressure	4bar/21°C 2.4bar/80°C

Chemical Compatibility

Acetic Acid	R	Benzene	R
Ethyl Alcohol	R	Oil	R
KOH	NR	Acetone	R
Ethyl acetate	R	Diethyl Ether	R

*R: Recommend NR: No Recommend

Ordering Information

PLGF	0500	10	C1	E
Series	Micron	Length	End Cap Type	Seal material
PLGF	0010=0.1μm	05=5"	C1=226/Spear	E=EPDM
	0020=0.2μm	10=10"	C3=222/Spear	S=Silicone
	0045=0.45μm	20=20"	C5=222/Flat	V=Viton
	0100=1.0μm	30=30"	C6=226/Flat	P=FEP
	0300=3.0μm	40=40"	C9=DOE	
	0500=5.0μm			
	1000=10μm			

GFH Series

--Glass Microfiber Filter Cartridge for Gas

GFH series filter cartridge is made of ultra-fine Glass fiber material with dust holding space more than 90%, which is especially suitable for gas filtration. The unique ability of particle retention ensures gas particle retention efficiency, is suitable for gas particle removal filtration.

Material Construction

Filter Media	Ultrafine glass fiber
Support/Drainage	Polypropylene (PP)
Cage/Core/End Caps	Core: SS304 or PP Others: PP

Performance

Maximum Operating Temperature	50°C(6 Months)
Maximum Operating Differential Pressure	4bar/21°C 2.4bar/80°C

Biological Safety

Dissolved Matter	<30mg/10"
	<0.25EU/ml/10"

Ordering Information

GFH	0002	10	C1	E
Series	Micron	Length	End Cap Type	Seal material
GFH	0030=0.3μm	05=5"	C1=226/Spear	E=EPDM
	0050=0.5μm	10=10"	C3=222/Spear	S=Silicone
	0100=1.0μm	20=20"	C5=222/Flat	V=Viton
	0300=3.0μm	30=30"	C6=226/Flat	P=FEP
	0500=5.0μm	40=40"	C9=DOE	

GPF Series

--PTFE Membrane Filter Cartridge for Gas

GPF series filter cartridge is made of Polytetrafluoroethylene (PTFE) membrane, and the interception efficiency for 0.01μm solid particles is up to 99.99%, so that GPF can meet stringent gas filtration. PTFE membrane has natural hydrophobicity and can achieve good filtration efficiency in dry or humid conditions. High flow rate, low pressure drop.

Material Construction

Filter Media	Hydrophilic Polytetrafluoroethylene (PTFE)
Support/Drainage	Polypropylene (PP)
Cage/Core/End Caps	Core: SS304 or PP Others: PP

Performance

Maximum Operating Temperature	50℃ (6 Months)
Maximum Operating Differential Pressure	4bar/21℃ 2.4bar/80℃

Biological Safety

Dissolved Matter	<30mg/10"
	<0.25EU/ml/10"

Ordering Information

GPF	0001	10	C1	P
Series	Micron	Length	End Cap Type	Seal material
GPF	00003=0.003μm	05=5"	C1=226/Spear	E=EPDM
	0001=0.01μm	10=10"	C3=222/Spear	S=Silicone
	0010=0.1μm	20=20"	C5=222/Flat	V=Viton
	0020=0.2μm	30=30"	C6=226/Flat	P=FEP
		40=40"	C9=DOE	

PHFZ Series

--Power Plant Condensate Water Pleated Filter Cartridge

PHFZ series pleated filter cartridge is backflushable pleated filters, designed for iron removal in condensate with or without resin pre-coat in power plant. According to the structure, it can be divided into three types: PHFZ-I (7 parts), PHFZ-II (40"+30") and PHFZ-III (20"+20"+20"+10"). The PHFZ-II (40"+30") is 40" and 30" welded, with integral cage outer diameter of Φ69.

Material Construction

Filter Media	Polypropylene (PP)
Cage/Core/End cap	Polypropylene (PP)
Accessories (nut, screw)	SS304

Performance

Maximum Operating Temperature	85°C
Maximum Operating Differential Pressure	3.0bar/65°C
Filtration Area	6.5m^2
Flow Rate	3.5-4.5m^3/h(Design) 3.9m3/h(Recommend)
Inlet water quality	<2000ppb

Backwash water or gas: Under the pressure of 1.36-2.1bar, the backwash water of each filter cartridge is 0.45-0.65m3/h, backwash gas 3.4-5m3/h, can achieve the ideal effect.
600MW supercritical units and 1000MW ultra-supercritical units, respectively recommended use 4μm and 1μm 70" filter cartridge, when debugging recommend 10μm filter cartridge for start-up.

Ordering Information

PHFZ	PP	0500	70	III	Z2	W1
Series	Media	Micron	Length	Structure	Connection Thread	End Tread
PHFZ	PP=Polypropylene	0100=1.0μm 0400=4.0μm 1000=10μm	60=60" 70=70"	I=7Part (Φ69) II=40"+30" (Φ65) III=20"+20"+20"+10"(Φ69)	Z1=1 1/2"-12 Z2=M33×1.5	W1=M8 W2=M10 W3=M6 W4=3/8

PHF/PHFLH Series

--High Flow/High Temperature Filter Cartridge

PHF series high flow filter cartridge adopts 6" large diameter (PHFM series is 6.5") structure with single open end. The filter body is divided into two types: PP pleated and melt blown. All connection use thermal welding, no any adhesive, has wide Chemical compatibility, can be applied to food and beverage filtration.
PHFLH series high temperature resistant high flow filter cartridge adopts 6" large diameter structure, single open end, no center core, outer cage is made of 304 stainless steel, filter material and support layer are made of high temperature resistant materials, which can be long-term under the condition of 120℃ use.

Material Construction

Filter Media	PP: Deep Pleated PP/Melt PP	FO: Organic Fiber	GF: Resin Synthetic Glass Fiber
Support/Drainage	PP	Organic Fiber	Polyester
End Cap Material	Fiberglass Reinforced Polypropylene	Fiberglass Reinforced Polypropylene	Fiberglass Reinforced Polypropylene

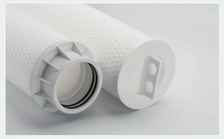
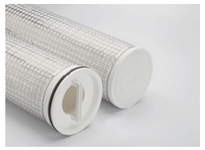
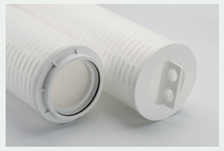
Performance

Maximum Operation Temperature	PP: 82°C FO: 120°C GF: 121°C
Maximum Operation Differential Pressure	PP: 3.44bar / 21°C FO: 3.44bar / 120°C GF: 3.44bar / 121°C

Flow Rate and Filtration Area

Size (Diameter*Length)	Design Flow (m^3/hr)	Maximum Flow (m^3/hr)	Filtration Area (m^2)
6"*20"	15	40	2.6
6"*40"	30	80	5.2
6"*60"	45	120	7.8

End Cap Type

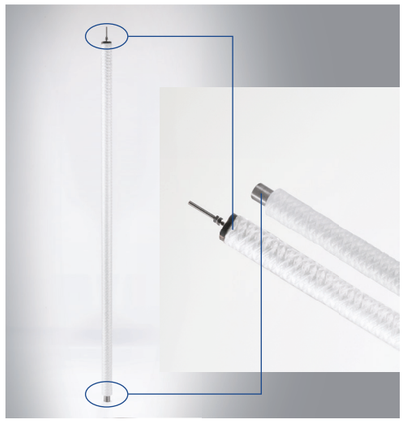
L/LH Type	K Type	M Type
		
		

Ordering Information

PHF	L	PP	0500		40	G	V	ZA
Series	Type	Media	Micron		Length	Structure	Seal Material	End Cap Type
PHF	L	PP	0010=0.1μm	1500=15μm	20=20"	G=PP Outer Cage	V=Viton	ZA=Single-Ring（HFK）
	LH	PBT	0100=1.0μm	2000=20μm	40=40"	M=Melt blown	S=Silicone	ZB=Double-Ring（HFK）
	K	GF	0500=5.0μm	4000=40μm	60=60"		E=EPDM	ZA= 一 Type（HFM）
	M		1000=10μm	7000=70μm				ZB= 十 Type（HFM）
				1000=100μm				None=（HFL/HFLH）

PHFX Series

--Power Plant Condensate Water String Wound Filter Cartridge



PHFX series string wound filter cartridge is depth filter, using high-performance fiber (Polypropylene, Absorbent cotton or Glass fiber) thread according to a specific process, tightly wound on the porous center core (PP or SS hole tube), form a honeycomb structure with sparse outside and dense inside. It's designed for power plant condensate iron removal, use with or without resin pre-coat. Commonly use length 70" (1778mm), the large length with big filtration area ensures to reduce the number of filter cartridges and the dimension of housing required. The long service life and high flow rate result in low investment and less manpower in many applications

Material Construction

Filter Media	PP: Polypropylene (PP) CO: Cotton GF: Glass Fiber FO: Organic Fiber
Center Core	SS 304/316L

Performance

Maximum Operating Temperature	250°C
Maximum Operating Differential Pressure	3.0bar@90°C
Flow Rate	2.2-2.8m3/h（Design） 2.5m3/h（Recommend）
Inlet Water Quality（Recommend）	＜ 1000ppb

Ordering Information

PHFX	PP	0500	60	S1	Z1	W1
Series	Media	Micron	Length	Center Core	Connection Thread	End Thread
PHFX	PP=Polypropylene CO=Cotton GF=Glass Fiber FO= Organic Fiber	0100=1.0μm 0500=5.0μm 1000=10μm	40=40" 60=60" 70=70"	S1=304 S2=316L	Z1=M33×1.5 Z2=M33×2 Z3=G1" Z4=1 3/16"-24BSW	W1=M8 W2=M10 W3=M6

WPP Series

--Winding Polypropylene Filter Cartridge

WPP series filter cartridge is made of continuous Polypropylene (PP) filter material. It's made of various gradient polypropylene materials, has higher efficiency than ordinary melt blown filter elements. Because of the multi-layer polypropylene winding, its filtration area is larger than the ordinary melt blown filter element, the service life is relatively longer.

Material Construction

Filter Media	Polypropylene (PP)
Support/Drainage	Polypropylene (PP)
Cage0/Core/End Cap	Polypropylene (PP)

Performance

Maximum Operating Temperature	80°C
Maximum Operating Differential Pressure	3bar/21°C 1.2bar/80°C

Ordering Information

WPP	0100	10	C1	E
Series	Micron	Length	End Cap Type	Seal material
WPP	0050=0.5μm	10=10"	C1=226/Spear	E=EPDM
	0100=1.0μm	20=20"	C5=222/Flat	V=Viton
	0300=3.0μm	30=30"	C3=222/Spear	H=PE Gasket
	0500=5.0μm	40=40"	C9=DOE	W=No Gasket
	1000=10μm		W=No Gasket（Standard）	
	2500=25μm		H=PE Gasket	
	4000=40μm			
	5000=50μm			

PLM Series

--Melt Blown Filter Cartridge

PLM-PP series polypropylene melt blown filter cartridge adopts the latest technology, so that the entire filter element has very hard mechanical properties, and its compression resistance is more than twice that of ordinary melt blown filter elements. It can be applied to some liquids filtration with high viscosity and high solid content. The melt blown process makes it has high dirt holding capacity and can withstand more impurities. For particulate materials, such as metallic paint, it has a good interception effect and low resistance.

PLM-NY series nylon melt blown filter cartridge is an innovative product processed through melt blown technology, and the product uses a relatively unique nylon fiber as the filter media. Provides a nylon filter cartridge with larger pore size, which has wide applicability. Coupled with the excellent chemical compatibility, it can be used in strong solvents such as benzene, toluene, and xylene. The characteristics of nylon fiber make it suitable for filtering some emulsions.

Material Construction

Filter Media	PP: Polypropylene NY: Nylon
Center Core	Polypropylene/ Nylon/ Fiberglass reinforced polypropylene
Diameter	63mm or Customization

Performance

Maximum Operating Temperature	80°C
Maximum Operating Differential Pressure	4bar/21°C 2.4bar/80°C

Chemical Compatibility

Material	PP	NY	Material	PP	NY
Benzene	NR	R	Acid	R	NR
Xylene	NR	R	Alcohol	R	R
Acetone	R	R	Fat	LR	LR
Trichloro ethylene	LR	R	Alkali	R	R

R: Resistance NR: No Resistance LR: Limited Resistance

Ordering Information

PLM	PP	0005	10	C1	S
Series	Media	Micron	Length	End Cap Type	Seal Material
PLM	PP=Polypropylene	0100=1.0μm	05=5"	C1=226/Spear	E=EPDM
	NY=Nylon	0300=3.0μm	10=10"	C3=222/Spear	S=Silicone
		0500=5.0μm	20=20"	C5=222/Flat	V=Viton
		1000=10μm	30=30"	C6=226/Flat	P=FEP
		2500=25μm	40=40"	C9=DOE	
		7500=75μm			
		10000=100μm			
		15000=150μm			

PLX Series

--String Wound Filter Cartridge

PLX series filter cartridge is made of textile fiber (polypropylene, absorbent cotton or glass fiber) according to a specific process, tightly wound on a porous framework (PP or SS porous tube) to form a honeycomb structure with sparse outside and dense inside, which can effectively filter suspended solids in the fluid, Rust, particles and other impurities, with the characteristics of small pressure drop and large pollutant holding capacity.

Material Construction

Filter Media	PP: Polypropylene (PP) CO: Cotton GF: Glass Fiber FO: Organic Fiber
Center Core	PP/Stainless Steel 304/316L

Performance

Maximum Operating Temperature	PP: 60°C CO: 120°C GF: 200°C FO: 120°C
Maximum Operating Differential Pressure	4.0bar
Recommend Change-out Differential Pressure	2.0bar

Ordering Information

PLX	A3	0500	40
Series	Filter Layer/Center core Material	Micron	Length
PLX	A1=PP/PP	0100=1.0μm	05=5"
	A2=PP/SS（Stainless Steel）	0300=3.0μm	10=10"
	A3=Cotton/SS	0500=5.0μm	20=20"
	A4=Glass Fiber/SS	1000=10μm	30=30"
	A5=FO/SS	2500=25μm	40=40"
		7500=75μm	50=50"
		10000=100μm	60=60"
		15000=150μm	70=70

PCF Series

--Carbon Fiber Filter Cartridge

PCF series carbon fiber filter cartridge is made of high-efficiency active adsorption material and environmentally friendly functional material activated carbon fiber. It is an updated product of activated carbon, especially with strong adsorption capacity for chlorine and organic odors. It is widely used in the filtration of deodorization, decolorization and organic removal in the beer production process.

Material Construction

Filter Media	Carbon Fiber
Support/Drainage	Polypropylene (PP)
Cage/Core/End Caps	Core: SS304 Or PP Other: PP

Performance

Maximum Operating Temperature	80°C
Maximum Operating Difference Pressure	4bar/21°C 2.4bar/80°C

Filtration Micron and Iodine adsorption

Filtration micron	Iodine adsorption（mg/g）
08	800
10	1000
16	1600

Ordering Information

PCF	10	08	W
Series	Length	Micron	End Cap Type
PCF	10=10"	08	W=Gasket（Standard）
	20=20"	10	H=PE Gasket
	30=30"	16	C1=226/Spear
	40=40"		C3=222/Spear
			C5=222/Flat
			C6=226/Flat
			C9=DOE

PFB Series

-- Bag Filter

PFB series bag filter is made of needled felt, the filter material has high precision and the surface is treated with singeing, calendering or film coating, without fiber shedding; the thermal welding technology ensures that there will be no side leakage.

Material Construction

Filter Media	Polypropylene, Polyester, Nylon

Performance

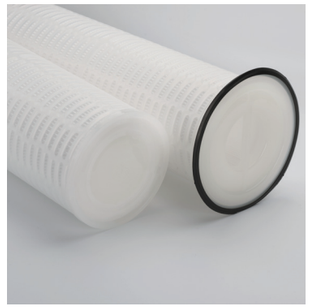
Filter Media	PP: Polypropylene	PET: Polyester	NY: Nylon
Maximum Operating Temperature	90°C	160°C	160°C
Maximum Operating Differential Pressure	2bar/21°C	2bar/21°C	2bar/21°C
	1bar/80°C	1bar/160°C	1bar/80°C

Ordering Information

PFB	PP	0500	01	N
Series	Material	Micron	Size	Ring
PFB	PP	0100=1.0μm	01=Φ180*430mm	01=Φ180*430mm
	PET	0300=3.0μm	02=Φ180*810mm	02=Φ180*810mm
	NY	0500=5.0μm	03=Φ100*230mm	03=Φ100*230mm
		1000=10μm	04=Φ100*380mm	04=Φ100*380mm
		1500=15μm	05=Φ150*500mm	05=Φ150*500mm
		3000=30μm		
		5000=50μm		
		7500=75μm		
		100H=100μm		
		150H=150μm		

PLBG Series

--Bag Filter replacement Filter Cartridge



PLBG series bag filter pleated high flow filter cartridge is designed to replace Size 1 and Size 2 bag filters. PP pleated type provides a cost-effective alternative with higher removal efficiencies over standard bag media configurations. It's suitable for existing bag filter vessels, no need add any hardware change. Long service life, save filtration cost.

Material Construction

Filter Media	Depth Polypropylene (PP)
Support/Drainage	Polypropylene (PP)
Cage/Core/End Cap	Glass Fiber reinforced Polypropylene (PP)

Performance

Filtration Micron	1μm, 2μm, 5μm, 10μm, 20μm, 40μm, 70μm, 90μm
Maximum Operating Differential Pressure	3.5bar / 21°C(Inside to Outside)
Recommend Change-out Differential Pressure	1.0 bar / 21°C(Inside to Outside)
Hot Water Sterilization	77-82°C/30min
Maximum Operating Temperature	82°C

Flow Rate and Filtration Area

Size	Design Flow Rate (m^3/hr)	Max. Flow Rate (m^3/hr)	Filtration Area (m^2)
1#	10	25	1.6
2#	20	50	3.4

Ordering Information

PLBG	0100		01	E
Series	Micron		Length	Seal Material
PLBG	0100=1.0μm	2000=20μm	01（1#）=330mm	E=EPDM
	0300=3.0μm	4000=40μm	02（2#）=660mm	S=Silicone
	0500=5.0μm	7000=70μm	Customization	V=Viton
	1000=10μm	9000=90μm		

PHSW Series

--Stainless Steel Multi-layer Sintered Mesh Filter Cartridge

sintered, it has excellent temperature, pressure and corrosion resistance, as well as excellent backwash effect, making it a substitute for titanium rod products, suitable for solid-liquid separation with rigid granular material.

Material Construction

Filter Media	316L/304Stainless Steel
Cage/Core/End Caps	316L/304 Stainless Steel

Performance

Maximum Operating Temperature	480°C
Maximum Operating Differential Pressure	3bar

PHSF Series

--Stainless Steel Sintered Fiber Felt Pleated Filter Cartridge

PHSF Stainless Steel Pleated Felt Filter Cartridges constructed with stainless steel sintered felt and shaped during the pleating process. These filters have a large filtration area. The stainless steel sintered felt is made from stainless steel fiber, which is then sintered under high temperature to form the porous depth filtration material.

PHFS Filter Cartridges features including a graded pore size from coarse upstream to fine downstream, which results in a higher dirt holding capacity and longer service life.

Material Construction

Filter Media	316L/304Stainless Steel
Cage/Core/End Caps	316L/304 Stainless Steel

Performance

Maximum Operating Temperature	480°C
Maximum Operating Differential Pressure	5bar

PHSC Series

--Stainless Steel Mesh Pleated Filter Cartridge

The PHSC series pleated stainless steel mesh filter cartridge is made of woven stainless steel mesh. Compared with the cylindrical filter element, the pleat structure has larger filtration area, so it has obvious advantages in terms of life and flow rate.

Material Construction

Filter Media	316L/304Stainless Steel
Cage/Core/End Caps	316L/304 Stainless Steel

Performance

Maximum Operating Temperature	480°C
Maximum Operating Pressure	5.0bar

PHSP Series

--Stainless Steel Powder Sintered Filter Cartridge

PHSP series metal powder sintered filter element is made of stainless steel 316L, 310S or Hastelled-alloy powder sintered at high temperature. It has excellent temperature resistance, pressure resistance, corrosion resistance, uniform pore size distribution, good air permeability, cleaning & regeneration, can welding and be machined, etc.

Material Construction

Filter Media	316L/310S
	Hastelloy

Performance

Maximum Operating Temperature	480°C
Maximum Operating Differential Pressure	4bar

PHSV Series

--Stainless Steel Wedge Wire Filter Cartridge

PHSV series stainless steel wedge mesh filter cartridge is manufactured by welding ribs and V-shaped wires on advanced special welding equipment. Simple structure, high strength, high hardness, wear resistance and corrosion resistance, uniform gaps, good seepage, easy to clean and backflush, is one of the best choices for solid-liquid separation of materials containing rigid large particles.

Material Construction

Filter Media	316L/321/304 Stainless Steel, Special materials can be customized
Filtration Micron	20μm, 25μm, 30μm, 50μm, 60μm, 100μm, 150μm
Outer Diameter (OD: mm)	25.4, 33, 38, 50, 57, 76, 89, 105, 117, 130, 850mm, Customized.

Ordering Information

PHSP	S2	0500		10	C1	E
Series	Media	Micron		Length	End Cap Type	Seal Material
PHSC	S1=304	0200=2.0μm	3000=30μm	05=5"	C1=226/Spear	E=EPDM
PHSF	S2=316L	0300=3.0μm	4000=40μm	10=10"	C3=222/Spear	S=Silicone
PHSP		0500=5.0μm	5000=50μm	20=20"	C6=226/Flat	V=Viton
PHSW		0700=7.0μm	6000=60μm	30=30"	C9=DOE	F=PTFE
		1000=10μm	100H=100μm	40=40"	L=Thread（Customized）	N=Nitrile
		2000=20μm	150H=150μm			
		2500=25μm				

N/S Series

--Capsule Filter

N/S series capsule filters a variety of volumes are available, and the inlet and outlet, vent and outlet are configured with standard NPT or Swagelock interfaces, and can be connected to piping of various sizes through corresponding adaptors. Easy to install and operate. The inner filter cartridge can be configured according to the characteristics of the filter material and liquid. It has a wide range of applicability and is especially suitable for small flow filter material and liquid.

Material Construction

Cage/Core/End Caps	Polypropylene (PP)

Performance

Maximum Operating Temperature	50°C
Maximum Operating Differential Pressure	7bar

Filtration Micron and Iodine adsorption

Code	Product Series
GF	Ultra Glass Fiber
PES	Polyether Sulfone
PP	Polypropylene
N66	Nylon
PVDF	Hydrophilic Polyvinylidene Fluoride
PFL	Hydrophobic PTFE
PFLH	Hydrophilic Teflon

Filtration Micron Table

01	0.1μm
02	0.22μm
03	0.3μm
04	0.45μm
06	0.65μm
08	0.8μm
12	1.2μm
50	5.0μm

Dimension Parameter Table

Size Code	N09	N12	N53	N54	N59	S02	S03	S04	S10
OD	Φ72mm	Φ72mm	Φ72mm	Φ72mm	Φ72mm	Φ72mm	Φ72mm	Φ72mm	Φ72mm
Length	114mm	138mm	202mm	202mm	152mm	114mm	183mm	114mm	183mm
Inlet &Outlet	1/4" NPT	1/4" NPT	1/2" NPT	3/8" NPT	1/4" NPT	1/4" Swage	3/8" Swage	1/4" Swage	1/2" Swage
Vent	1/8" NPT	1/4" Swage	Luer lock	Luer Lock	1/8" NPT	1/4" Swage	1/4" Swage	1/4" Swage	1/4" Swage

Ordering Information

N	Dimension Code	Product Series Code	Filtration Micron Code
S	Refer to Dimension Parameter Table	Refer to Product Series Table	Refer to Filtration Micron Table