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Liquid & Gas Filtration 全流体过滤



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Shanghai Pullner Filtration Technology CO.,LTD

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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/Cones/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

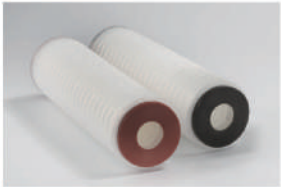
*R: Resistance NR: No Resistance LR: Limited Resistance

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=PFP
	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%	> 96%	> 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=Tefton
	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 /110")
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	Polyspropylene (PP)
Cage/Center Core/End Cap	Polyspropylene (PP)

Performance

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

Biological Safety

Dissolved Matter	<30mg <0.25EU/ml
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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"
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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"
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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 2m² 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"
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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	CO4	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 °C 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			