



Arc Filtration System Ltd

Filter Media and Filtration Elements Supplier



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SP Filter Cartridges

Nominal Polypropylene depth Filter Cartridges



- ◆ **100% Polypropylene**
- ◆ **Many Connections Are Available**
Cut Ends; 226/FIN; 222/FIN
- ◆ **Wide Chemical Compatibility**
Can be used in the solvent which PH value is from 1 to 13
- ◆ **Effective Filtration Area**
0.40m² per 10"
- ◆ **Materials**
Filter Media : Polypropylene
Inner core : Polypropylene or coreless
- ◆ **Cartridge Dimensions (Nominal)**
Outer Diameter: 63mm (2.5") / 114mm (4.5")
Inner Diameter: 28mm (1.10")
Length: 10"- 254mm 20"- 508mm 30"- 762mm 40"- 1016mm
* (Length is based on Cut Ends)
- ◆ **Cartridge Purity**
Free of surfactants, resins, binders and adhesives.



- ◆ **Typical Applications**
Prefiltration;
Clarification
- ◆ **Operating Conditions**
Normal Operating Temperature: Up to 50°C (122°F)
Max. Operating Temperature: 80°C (149°F) at $P \leq 1.0$ bar (14psi)
Max. Differential Pressure:
Normal flow direction 4.0 bar (58 psi) at 25°C (77°F);
Reverse flow direction 2.0 bar (29 psi) at 25°C (77°F).
PH Value compatibility: 1-13
- ◆ **Sterilization**
Not recommended

Table 1: Typical water flow rate (10")

ΔP -bar (1bar $\approx$ 14.5psi)

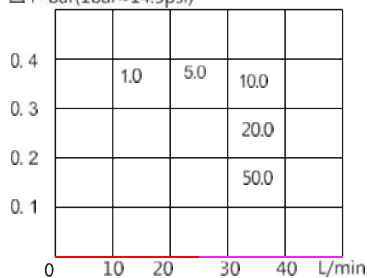


Table 2: Liquid Retention Ratings(um) Test

Micron	$\geq 80\%$
1.0	1
5.0	5
10.0	10
20.0	20
50.0	50

Cartridge Filter	Filter Media	Micron Rating	Length	Adapters	O-Ring
SP	PP=Polypropylene	001=1um 005=5um 010=10um 020=20um 050=50um	10=10" 20=20" 30=30" 40=40"	A=Double plate open B=Double plate seal E=222/Fin E1=222/Flat E2=222/Fin(Three Tabs) F=226/Fin F1=226/Flat	S=Silicone N=Buna N V=Viton E=Epdm

SW Filter Cartridges

Nominal String Wound depth Filter Cartridges

◆ Many Filter Media For Option

Polypropylene; Bleached cotton; Glass Fiber

◆ High Dirt Holding Capacity

Depth filtration, high dirt holding capacity

◆ Many Connections Are Available

Cut Ends; 226/FIN; 222/FIN

◆ Wide Chemical Compatibility

Can be used in the solvent which PH value is from 1 to 13

◆ Effective Filtration Area

0.40m² per 10"

◆ Materials

Filter Media: Polypropylene

Inner core: 10"-Coreless 20"-Coreless 30"-Polypropylene

40"-Polypropylene

◆ Cartridge Dimensions (Nominal)

Outer Diameter: 63mm (2.5") / 114mm (4.5")

Inner Diameter: 28mm (1.10")

Length: 10"-254mm 20"-508mm 30"-762mm 40"-1016mm

* (Length is based on Cut Ends)

◆ Cartridge Purity

Free of surfactants, resins, binders and adhesives.



◆ Typical Applications

Prefiltration;

Clarification

◆ Sterilization

Not recommended

Table 1: Typical water flow rate (10")

△ P-bar (1bar ≈ 14.5psi)

Flow Rate (L/min)	0.4	0.3	0.2	0.1
Micron Rating	1.00	5.00	10.0	20.0

Table 2: Liquid Retention Ratings(um) Test

Micron	≥80%
1.0	1
5.0	5
10.0	10
20.0	20

Table 3: Operating Conditions

Filter Media	Max. Temperature	Max. differential pressure
Polypropylene	80 °C (172 °F)	4.0 bar (58psi)
Cotton	150 °C (300 °F)	5.0 bar (72psi)
Glass Fiber	300 °C (572 °F)	6.0 bar (87psi)

Table 4: ORDER INFORMATION

Cartridge Filter	Filter Media	Micron Rating	Length	Adapters	O-Ring
SW	PP=Polypropylene	001=1um	10=10"	A=Double plate open	S=Silicone
	CN=Cotton	005=5um	20=20"	B=Double plate seal	N=Buna N
	GF=Glass Fiber	010=10um	30=30"	E=222/Fin	V=Viton
		020=20um	40=40"	E1=222/Flat	E=Epdm
				E2=222/Fin(Three Tabs)	
				F=226/Fin	
				F1=226/Flat	

NPH Filter Cartridges

Nominal Polypropylene depth Filter Cartridges



- ◆ **Complete Polypropylene Structure**
Made of 100% high quality polypropylene material
- ◆ **Wide Chemical Compatibility**
Can be used in the solvent which PH value is from 1 to 13
- ◆ **No Media Migration Into The Process Fluid**
All the material have passed the migration test according to FDA and 2002/72/EC standard.
- ◆ **Economical**
Economical choice for the prefiltration and guard filtration before critical filtration.
- ◆ **Effective Filtration Area**
0.65m² per 10"
- ◆ **Materials**
Filter Media : Polypropylene
Support Layers : Polypropylene
Inner core : Polypropylene /SUS304
Outer Support : Polypropylene Cage
- ◆ **Cartridge Dimensions (Nominal)**
Outer Diameter : 69mm (2.75")
Inner Diameter : 33mm (1.30")
Length : 10"- 254mm
 20"- 508mm
 30"- 762 mm
 40"- 1016mm
- ◆ **Cartridge Purity**
Free of surfactants, resins, binders and adhesives.
Standard: Clean and flushed with Pyrogen-free water.
Rinse: up to 17-18MΩ.cm with a minimum of throughput



- ◆ **Typical Applications**
Pharmaceuticals; APIs; Biologics;
Plating solutions; Ink;
Fine Chemicals;
Food & Beverages, Wine, Beer, Mineral Water;
Semi-Conductor, LCD Display; Discs.
- ◆ **Operating Conditions**
Normal Operating Temperature : Up to 55°C (131°F)
Max.Operating Temperature: 80°C (172°F)at=P≤1.0 bar (14psi)
Max. Differential Pressure :
Normal flow direction 4.2 bar (60 psi) at 25°C (77°F);
Reverse flow direction 2.1 bar (30psi) at 25°C (77°F).
PH Value compatibility : 1-13
- ◆ **Sterilization:**
Not recommended
- ◆ **Materials Safety**
Meet the current FDA and 2002/72/EC standard.
Endotoxin: < 0.25 EU/ml
Extractables: 0.03g/ 10"

Liquid Retention Ratings(um) Test

Micron Rating	≥90%	≥99%
0.1	0.1	0.8
0.2	0.2	1.2
0.45	0.45	3
1.0	1	5
5.0	5	20

Table 1: Typical water flow rate (10")

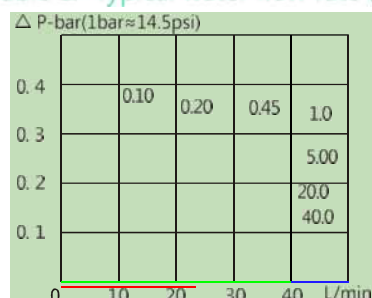


Table 3: ORDER INFORMATION

Cartridge Filter	Filter Media	Micron Rating	Length	Adapters	O-Ring
NPH	PP=Polypropylene	010=0.1um 020=0.2um 045=0.45um 100=1um 500=5um	10=10" 20=20" 30=30" 40=40"	A=Double plate open B=Double plate seal E=222/Fin E1=222/Flat E2=222/Fin(Three Tabs) F=226/Fin F1=226/Flat	S=Silicone N=Buna N V=Viton E=Epdm T=Teflon

APH Filter Cartridges

Absolute Polypropylene Depth Filter Cartridges



◆ Absolute rating

Polypropylene membrane which can provide absolute rating filtration.

◆ Complete Polypropylene structure

Made of 100% high quality polypropylene material

◆ Wide chemical compatibility

Can be used in the solvent which PH value is from 1 to 13

◆ No media migration into the process fluid

All the material have passed the migration test

◆ Effective Filtration Area: 0.65m² per 10"

◆ Materials

Filter Media : Polypropylene Membrane
Support Layers : Polypropylene
Inner core : Polypropylene
Outer Support : Polypropylene Cage

◆ Cartridge Dimensions (Nominal)

Outer Diameter : 69mm (2.75")
Inner Diameter : 33mm (1.30")
Length : 10"- 254mm 20"- 508mm 30"-762 mm 40"- 1016mm

◆ Cartridge Purity

Free of surfactants, resins, binders and adhesives.
Standard : Clean and flushed with Pyrogen-free water.
Rinse: up to 17-18MΩ.cm with a minimum of throughput



◆ Typical Applications

Pharmaceuticals; APIs; Biologics;
Fermentation Broths;
Fine Chemicals;
Food & Beverages, Wine, Beer, Mineral Water;
Semi-Conductor, LCD Display; Discs.

◆ Operating Conditions

Normal Operating Temperature : Up to 55°C (131°F)
Max. Operating Temperature. : 80°C (172°F) att+P≤1.0 bar (14psi)
Max. Differential Pressure :
Normal flow direction 4.2 bar (60 psi) at 25°C (77°F);
Reverse flow direction 2.1 bar (30psi) at 25°C (77°F).
PH Value compatibility : 1-13

◆ Sterilization

Steam Sterilization for 30 minutes at 121±2 °C
Cumulative Time : 15hours;
OR flush with hot water at 82°C(180°F) for 30 minutes
at +P≤1.0 bar (14psi) -- Recommended.

◆ Materials Safety

Meet the current FDA and 2002/72/EC standard.
Endotoxin : < 0.25 EU/ml
Extractables : 0.03g/ 10"

Table 1: Typical water flow rate (10")

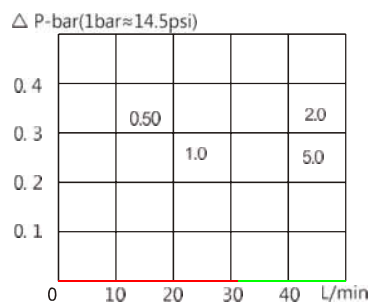


Table 2: Liquid Retention Ratings(um) Test

Micron Rating	Efficiency
0.5	>99%
1.0	>99%
2.0	>99%
5.0	>99%

Table3: ORDER INFORMATION

Cartridge Filter	Filter Media	Micron Rating	Length	Adapters	O-Ring
APH	PP=Polypropylene	050=0.5um 100=1um 200=2um 500=5um 1000=10um	10=10" 20=20" 30=30" 40=40"	A=Double plate open B=Double plate seal E=222/Fin E1=222/Flat E2=222/Fin(Three Tabs) F=226/Fin F1=226/Flat	S=Silicone N=Buna N V=Viton E=Epdm T=Teflon

NGF Filter Cartridges

Nominal Glass Fiber depth Filter Cartridges



◆ High dirt holding capacity

Constructed from Borosilicate Microfiber and polypropylene layers, which enables high dirt holding capacity

◆ Wide chemical compatibility

Can be used in the solvent which PH value is from 1 to 13

◆ High flow rate

uper flow rate, suitable for colloid and high viscosity liquid filtration

◆ Economical

Economical choice for the prefiltration and guard filtration before critical filtration.

◆ Effective Filtration Area

0.65m² per 10"

◆ Materials

Filter Media : Glass Microfiber
Support Layers : Polypropylene
Inner core : Polypropylene /SUS304
Outer Support : Polypropylene Cage

◆ Cartridge Dimensions (Nominal)

Outer Diameter : 69mm (2.75")
Inner Diameter : 33mm (1.30")
Length : 10"- 254mm 20"- 508mm 30"-762 mm 40"- 1016mm
* (Length is based on DOE Adapter)

◆ Cartridge Purity

Free of surfactants, resins, binders and adhesives.
Standard: Clean and flushed with Pyrogen-free water.



◆ Typical Applications

The clarification of beers, wines and spirits;
Fine chemicals including reagent, inks and paints;
Prefiltration of biological fluids, (e.g. cell culture media.)
Clarification of cosmetics.

◆ Operating Conditions

Normal Operating Temperature : Up to 55°C (131°F)
Max.Operating Temperature. : 80°C (172°F)at P≤1.0 bar (14psi)
Max. Differential Pressure :
Normal flow direction 4.2 bar (60 psi) at 25°C (77°F);
Reverse flow direction 2.1 bar (30psi) at 25°C (77°F).
PH Value compatibility : 1-13

◆ Sterilization

In-line steam sterilization is Not recommended
Flush with hot water at 82°C(180°F) for 30 minutes

◆ Materials Safety

All the materials are except the Glass Fiber are certified to meet the current FDA and 2002/72/EC standard.

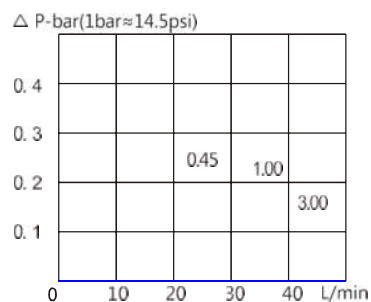
Table 2: Liquid Retention Ratings(um) Test

Micron	≥90%
0.45	0.45
1.00	1
3.00	3
5.00	5
10.0	10

Table 3: ORDER INFORMATION

Cartridge Filter	Filter Media	Micron Rating	Length	Adapters	O-Ring
NGF	GF=Glass Fiber	020=0.2um 045=0.45um 065=0.65um 100=1um 300=3um	10=10" 20=20" 30=30" 40=40"	A=Double plate open B=Double plate seal E=222/Fin E1=222/Flat E2=222/Fin(Three Tabs) F=226/Fin F1=226/Flat	S=Silicone N=Buna N V=Viton E=Epdm T=Teflon

Table 1: Typical water flow rate (10")



MSPS Filter Cartridges

Absolute Polyethersulphone Membrane Filter Cartridges



◆ Natural Hydrophilic

Natural hydrophilic polyethersulphone (PES) membrane, requires no prewetting before integrity test.

◆ Absolute Rating

Imported high quality membrane, filtration effective is $\geq 99.99\%$
Minimum pore size is 0.04um, suitable for critical filtration.

◆ Low Protein Binding

10 times lower than Nylon; 2 times lower than Polysulfone.

◆ Excellent Resistant to Hydrolysis

Cartridges are ideal for hot deionised water application

◆ Effective Filtration Area

0.65m² per 10"

◆ Materials

Filter Media : Polyethersulphone Membrane
Support Layers : Polypropylene
Inner core : Polypropylene
Outer Support : Polypropylene Cage

◆ Cartridge Dimensions (Nominal)

Outer Diameter : 69mm (2.75")
Inner Diameter : 33mm (1.30")
Length : 10"- 254mm 20"- 508mm 30"-762 mm 40"- 1016mm

◆ Cartridge Purity

Free of surfactants, resins, binders and adhesives.
Standard : Clean and flushed with Pyrogen-free water.
Rinse : up to 17-18MΩ.cm with a minimum of throughput
Vacuum packing

Table 1: Typical water flow rate (10")

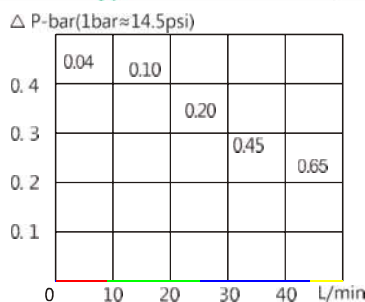


Table 4: ORDER INFORMATION

Cartridge Filter	Filter Media	Micron Rating	Length	Adapters	O-Ring
MS	PS=Polyethersulphone	D=0.04um A=0.1um B=0.2um C=0.45um E=0.65 F=0.8um G=1.2um	10=10" 20=20" 30=30" 40=40"	A=Double plate open B=Double plate seal E=222/Fin E1=222/Flat E2=222/Fin(Three Tabs) F=226/Fin F1=226/Flat	S=Silicone N=Buna N V=Viton E=Epdm T=Teflon



◆ Typical Applications

Pharmaceuticals; APIs; Biologics;
Fermentation Broths;
Fine Chemicals;
Food & Beverages, Wine, Beer, Mineral Water;
Semi-Conductor, LCD Display; Discs.

◆ Operating Conditions

Normal Operating Temperature : Up to 55°C (140°F)
Max. Operating Temperature : 85°C (185°F) at $\Delta P \leq 1.0$ bar (14psi)
Max. Differential Pressure :
Normal flow direction 4.2 bar (60 psi) at 25°C (77°F);
Reverse flow direction 2.1 bar (30psi) at 25°C (77°F).
PH Value compatibility : 2-13

◆ Sterilization:

Steam Sterilization for 30 minutes at 121±2 °C
Cumulative Time : 8hours

◆ Materials Safety

Meet the current FDA and 2002/72/EC standard.
Endotoxin : < 0.25 EU/ml
Extractables : 0.03g/ 10"

Table 2: Liquid Retention Ratings(um) Test

Micron	$\geq 99.99\%$ (Beta Ratio 10,000)
0.10	0.1
0.20	0.2
0.45	0.45
0.65	0.65

Table 3: 100% Integrity Test - Purified water at 25°C (77°F)

Micron	
0.04	
0.10	
0.20	
0.45	
0.65	
0.04um&0.10um	
Test Liquid:70%/30% IPA/WATER @ 23centigrade degree	

MFTF Filter Cartridges

Hydrophobic Polytetrafluoroethylene Membrane Filter Cartridges



◆ Best choice for gas filtration

PTFE membrane can work under high temperature conditions
Suitable for removing the bacterial in gas and air.

◆ Absolute Rating

Imported high quality membrane, filtration effective is $\geq 99.99\%$
Minimum pore size is 0.1 μm , suitable for critical gas filtration.

◆ Mechanical strength

Inner core and bottom adapter are reinforced by SUS304

◆ Excellent gas flow performance

Exceptional gas flow rates at low pressure differentials.

◆ Effective Filtration Area

0.65m² per 10"

◆ Materials

Filter Media : PTFE Membrane
Support Layers : Polypropylene
Inner core : SUS304
Outer Support : Glass Fiber reinforced cage
Adapter : Polypropylene with encapsulated
SUS304 reinforcing ring

◆ Cartridge Dimensions (Nominal)

Outer Diameter : 69mm (2.75")
Inner Diameter : 33mm (1.30")
Length : 10"- 254mm 20"- 508mm 30"- 762 mm 40"- 1016mm
* (Length is based on DOE Adapter)

◆ Cartridge Purity

Free of surfactants, resins, binders and adhesives.
Standard : Clean and flushed with Pyrogen-free water.
Vacuum packing



◆ Typical Applications

Fermentation air;
Tank vent;
Compressed air;
Sterile process gases;
Ultrafine particles existed in air.

Operating Conditions

Normal Operating Temperature: Up to 65°C (149°F)
Max. Operating Temperature.: 90°C (194°F) at $P \leq 1.0$ bar (14psi)
Max. Differential Pressure:
Normal flow direction 4.2 bar (60 psi) at 25°C (77°F);
Reverse flow direction 2.1 bar (30psi) at 25°C (77°F).
PH Value compatibility: 1-14

◆ Sterilization

Steam Sterilization for 30 minutes at 135°C (275°F)
Cumulative Time: 50 hours

◆ Materials Safety

Meet the current FDA and 2002/72/EC standard.
Endotoxin: < 0.25 EU/ml
Extractables: 0.03g/ 10"

Table 2: Liquid Retention Ratings(μm) Test

Micron	$\geq 99.99\%$ (Beta Ratio 10,000)
0.10	
0.20	
0.45	

Table 3: 100% Integrity Test

Micron	Bubble Point
0.10	≥ 1.3 bar (19psi)
0.20	≥ 0.9 bar (13psi)
0.45	≥ 0.4 bar (5.8psi)

* Test Liquid: 70%/30% IPA/WATER at 23°C (73°F)

Table 1: Typical water flow rate (10")

ΔP -bar (1bar $\approx$ 14.5psi)

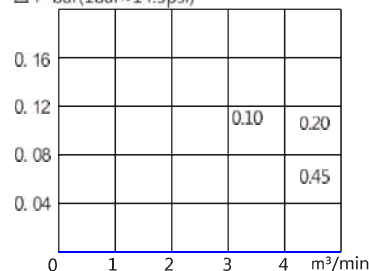


Table 4: ORDER INFORMATION

Cartridge Filter	Filter Media	Micron Rating	Length	Adapters	O-Ring
MF	TF=Polytetrafluoroethylene	A=0.1 μm B=0.2 μm C=0.45 μm	10=10" 20=20" 30=30" 40=40"	E=222/Fin E1=222/Flat F=226/Fin F1=226/Flat	S=Silicone N=Buna N V=Viton E=Epdm T=Teflon

MNY Filter Cartridges

Hydrophilic Nylon66 Membrane Filter Cartridges



◆ Natural Hydrophilic

Natural hydrophilic Nylon 66 membrane, requires no prewetting before integrity test.
Nylon66 is stronger than Nylon6
Nylon66 can bear higher temperature than Nylon6

◆ Absolute Rating

Filtration effective is $\geq 99.99\%$
suitable for critical filtration.

◆ Suitable For Alkaline Solution Filtration

◆ Effective Filtration Area

0.65m^2 per $10''$

◆ Materials

Filter Media : Nylon 66 Membrane
Support Layers : Polypropylene
Inner core : Polypropylene
Outer Support : Polypropylene Cage

◆ Cartridge Dimensions (Nominal)

Outer Diameter : 69mm (2.75")
Inner Diameter : 33mm (1.30")
Length : 10" - 254mm 20" - 508mm 30" - 762mm 40" - 1016mm
* (Length is based on DOE Adapter)

◆ Cartridge Purity

Free of surfactants, resins, binders and adhesives.
Standard: Clean and flushed with Pyrogen-free water.
Rinse: up to 17-18MΩ.cm with a minimum of throughput
Vacuum packing

Table 1: Typical water flow rate (10")

ΔP -bar(1bar $\approx$ 14.5psi)

	0.10	0.20	0.45	0.65	
0.4					
0.3				1.00	
0.2					
0.1					
	0	10	20	30	40 L/min

Table4: ORDER INFORMATION

Cartridge Filter	Filter Media	Micron Rating	Length	Adapters	O-Ring
MNY	NL=Nylon66	A=0.1um B=0.2um C=0.45um E=0.65 F=0.8um G=1.0um	10=10" 20=20" 30=30" 40=40"	A=Double plate open B=Double plate seal E=222/Fin E1=222/Flat E2=222/Fin(Three Tabs) F=226/Fin F1=226/Flat	S=Silicone N=Buna N V=Viton E=Epdm T=Teflon



◆ Typical Applications

Pharmaceuticals; APIs; Solvents; LVP; SVP;
Alcohol, Wine, Beer, Juice, Colas, Bottled water;
Fine chemicals, especially Ketone, Ester, Ether;
Process water of microelectronics application.

◆ Operating Conditions

Normal Operating Temperature : Up to 60°C (140°F)
Max.Operating Temperature. : 85°C (185°F)at $P \leq 1.0$ bar (14psi)
Max. Differential Pressure :
Normal flow direction 4.2 bar (60 psi) at 25°C (77°F);
Reverse flow direction 2.1 bar (30psi) at 25°C (77°F).
PH Value compatibility : 6-13

◆ Sterilization

Steam Sterilization for 30 minutes at $121 \pm 2^\circ\text{C}$
Cumulative Time: 3 hours

◆ Materials Safety

Meet the current FDA and 2002/72/EC standard.
Endotoxin: < 0.25 EU/ml
Extractables: 0.03g/ $10''$

Table 2: Liquid Retention Ratings(um) Test

Micron	$\geq 99.99\%$ (Beta Ratio 10,000)
0.10	0.1
0.20	0.2
0.45	0.45
1.00	1

Table 3: 100% Integrity Test - Purified water at 25°C (77°F)

Micron	Bubble Point
0.10	≥ 4.5 bar (65psi)
0.20	≥ 3.2 bar (46psi)
0.45	≥ 2.0 bar (29psi)
1.00	≥ 0.9 bar (13psi)

MFVF Filter Cartridges

Hydrophilic Polyvinylidene Fluoride Membrane Filter Cartridges



◆ PVDF for liquid filtration

PVDF membrane for liquid filtration.

◆ Absolute Rating

Filtration effective is $\geq 99.99\%$

Minimum pore size is 0.1um, suitable for critical liquid filtration.

◆ Wide Chemical compatibility

Suitable for strong alkaline and acid environment,
Resistance to the halogens and oxide

◆ High viscosity liquid filtration

Best choice for critical filtration of high viscosity liquid.

◆ Effective Filtration Area

0.65m² per 10"

◆ Materials

Filter Media : PVDF Membrane

Support Layers : Polypropylene

Inner core : Reinforced Polypropylene

Outer Support : Reinforced Polypropylene Cage

Adapter : Polypropylene

◆ Cartridge Dimensions (Nominal)

Outer Diameter : 69mm (2.75")

Inner Diameter : 33mm (1.30")

Length : 10"- 254mm 20"- 508mm 30"-762 mm 40"- 1016mm

* (Length is based on DOE Adapter)

◆ Cartridge Purity

Standard: Clean and flushed with Pyrogen-free water.

Rinse: up to 17-18MΩ.cm with a minimum of throughput

Vacuum packing

Table 2: Liquid Retention Ratings(um) Test

Micron	$\geq 99.99\%$ (Beta Ratio 10,000)
0.20	0.2
0.45	0.45
0.80	0.8
1.00	1

Table 3: 100% Integrity Test

Micron	Bubble Point
0.20	0.8
0.45	0.5
0.80	0.35
1.00	3

* Test Liquid: 70%/30% IPA/WATER at 23°C (73°F)

Table4: ORDER INFORMATION

Cartridge Filter	Filter Media	Micron Rating	Length	Adapters	O-Ring
MF	VF=Polyvinylidene Fluoride	A=0.20um B=0.45um C=0.65um D=0.80um E=1.00um	10=10" 20=20" 30=30" 40=40"	E=222/Fin E1=222/Flat F=226/Fin F1=226/Flat	S=Silicone N=Buna N V=Viton E=Epdm T=Teflon



◆ Typical Applications

Bacteria removing of pharmaceuticals;

Solvent contains halogens;

High viscosity liquid;

Filtration in strong oxidizing environment.

◆ Operating Conditions

Normal Operating Temperature : Up to 65°C (149°F)

Max.Operating Temperature. : 90°C (194°F) at $\Delta P \leq 1.0$ bar (14psi)

Max. Differential Pressure :

Normal flow direction 4.2 bar (60 psi) at 25°C (77°F);

Reverse flow direction 2.1 bar (30psi) at 25°C (77°F).

PH Value compatibility : 1-13

◆ Sterilization

Steam Sterilization for 30 minutes at 135°C(275°F)

Cumulative Time : 50hours

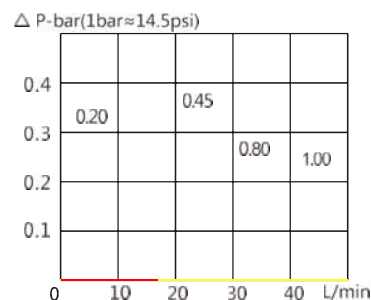
◆ Materials Safety

Meet the current FDA and 2002/72/EC standard.

Endotoxin : < 0.25 EU/ml

Extractables : 0.03g/ 10"

Table 1: Typical water flow rate (10")



CRFV Filter Cartridges

All Fluoropolymer Filter Cartridge



◆ General Description

This cartridge's filter media include PVDF&PTFE, all the others components are made of PVDF, offering high throughputs, high flow rates and long service life. Due to their characteristics of superior chemical compatibility and oxidation resistance, they are ideal for high temperature, strong corrosive and oxidative solvents applications.

◆ Features

All PVDF structure
High flow rates and long service life
Excellent chemical compatibility
Good Resistance to high temperature and oxidation

◆ Specifications

◆ Materials Construction

Filter Media: PVDF/PTFE
Support Layer: PVDF
Inner Core: PVDF
Outer Cage: PVDF
Endcap: PVDF

◆ Dimensions

Outer Diameter: 70mm
Length: 5", 10", 20", 30", 40"

◆ Filtration Area

>0.6 square meter per 10"

◆ Pore Size

PTFE: 0.1µm, 0.2µm, 0.45µm, 0.65µm, 1.0µm
PVDF: 0.1µm, 0.2µm, 0.45µm, 0.65µm, 1.0µm

◆ Operating Conditions

4.2 bar @ 23 °C (60.9 psi @ 73.4°F);
0.6 bar @ 95 °C (8.7 psi @ 203°F)

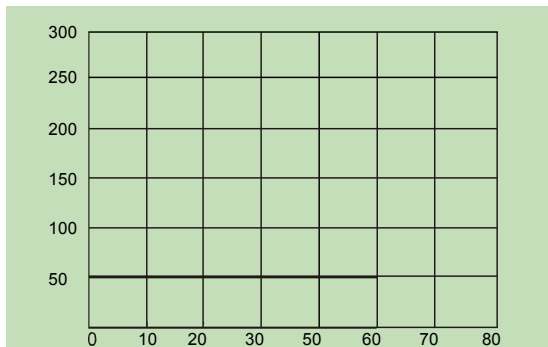


◆ Typical Applications

Chemicals
High purity electronic chemicals
Special Ink
Oxidative gases and liquids
Organic solvents

Table 1: Typical water flow rate

Δ P-mbar



PTFE per 10" @ 23 °C

Water flow rate: L/Min/10"

Table 2: ORDER INFORMATION

Cartridge Filter	Filter Media	Micron Rating	Length	Adapters	O-Ring
CRFV	TF=PTFE VF=PVDF	010=0.1µm 020=0.2µm 045=0.45µm 065=0.65µm 100=1.0µm	05=5inch 10=10inch 20=20inch 30=30inch 40=40inch	E=222/Fin F=226/Fin	V=Viton T=Teflon

CSF1639 Filter Cartridges

Nominal High Flow Depth Filter Cartridges



General Description

This filter designed to be used in different filter housings which contains 1 to 37 filter cartridges. It can be used for a variety of hardwares and for different flow rate request. The large diameter with big filter area insures to reduce the number of filter cartridges and the dimension of housing required.

Features

High dirty holding capacity, longer service life.
Wide chemical compatability for different applications.
No bypass O-ring desgins
Easy handing

Economical

Economical choice for the prefiltration and guard filtration before critical filtration.

Materials

Filter Media : Polypropylene, Glass Fiber
Support Layers : Polypropylene
Inner core : Polypropylene
Outer Support : Polypropylene Cage

Cartridge Dimensions (Nominal)

Length: 39inch
Outer Diameter : OD 6.5inch (165mm)

Cartridge Purity

Free of surfactants, resins, binders and adhesives.

Adapter Styles



Table 2: ORDER INFORMATION

Cartridge Filter	Filter Media	Micron Rating	Length	Adapters	O-Ring
CSF1639	PP=Polypropylene GF=Glass Fiber	100=1um 500=5um 1000=10um 2000=20um 5000=50um	A=39inch	A=Code A B=Code B	N=Buna N V=Viton E=Epdm T=Teflon



Typical Applications

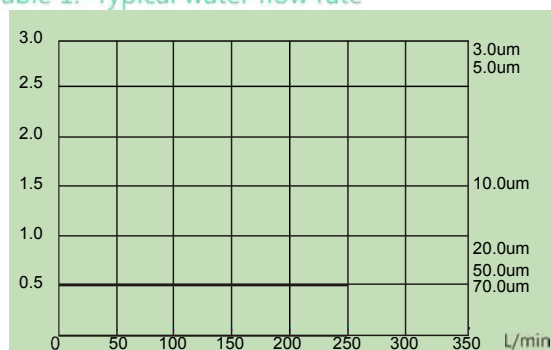
Prefiltration of RO
Pretreatment of sea water desalination
Condensate water filtration
Hot water recovery in power generation
API, solvents, and water filtration in Biopharm market
The filtration of bottled water
High fructose, edible oil, soft drinks, and milk
Paints and coatings, petrochemical, refineries
Microelectronics, film, fiber and resin

Operating Conditions

Normal Operating Temperature : Up to 55°C (131°F)
Max. Operating Temperature: 80°C (172°F) at P ≤ 3.4 bar

Normal flow direction 2.4 bar at 25°C

Table 1: Typical water flow rate



DLF Lenticular Filter

Depth Lenticular Filter Cartridges



◆ General Description

Lenticular filter cartridge with depth filter sheets, a range of options diameters and micron ratings. The filter media has a fixed pore construction of high quality. The combination of the surface and depth filtration provides fibers a long lifetime. Due to use of the premium quality filter fabrics, the depth filter cartridges have superior flow characteristics with very low pressure drop compared to normal depth media of similar micron rating, the large filtration area has a high dirty-holding capacity and saves the cost.

◆ Material of Construction

Filter Media: Cellulose fibers

Natural Diatomaceous earths

Perlite

Resins

Core: Polypropylene

O-ring & Gasket: Silicone

EPDM

NBR

Viton

◆ Material of Construction

*Backwashable, resulting in high total throughput

*Easy and reliable handling rigid external clips prevent damage of the

*Filter sheet during module loading and unloading

*No filter sheet deformities after heat treatment

*No adverse effects to filter sheets when in contact with hot sanitization or process filtration

*Increased filtration security separator design

increase the total stability of the filter cartridges

as the separators fully support the sheet material.



◆ Dimension

Outside Diameter: 8"
12"
16"

Cells: 7, 8, 9
12, 14, 15, 16

◆ Micron Rating

0.2-0.4µm
0.4-0.6µm
1.0-3.0µm
2.0-5.0µm
5.0-7.0µm

◆ Micron Rating

Polishing Filtration	Removal of Colloids
Prefiltration	Bottling Filtration
Clarifying Filtration	Chill Haze Removal
Final Filtration (germ removal)	

Table 1: ORDER INFORMATION

Cartridge Filter	OD	Micron Rating	Cells	Construction	O-Ring
DLF	08=8" 12=12" 16=16"	A=0.2-0.4µm B=0.4-0.6µm C=1.0-3.0µm D=2.0-5.0µm E=5.0-7.0µm	7=7 8=8 9=9 12=12 14=14 15=15 16=16	1=Double O-ring 2=Flat Gasket	S=Silicone N=Buna N V=Viton E=EPDM

BPF1141 Filter Cartridges

Nominal High Flow Depth Filter Cartridges



◆ General Description

This product is specially developed for fine filtration of beer. The filter media is high-quality polypropylene with gradient pore structure. It means the strict requirements of FDA. The cartridge has integral configuration. The outer part of the cartridge has coarse media with prefiltration performance, the inner part has fine filtration media performing the final filtration as the process needs. The diameter of the cartridge is up to 270mm with the length 40". The filtration media has optimized pleat structure, the effective area is highly increased, resulting in high flow, low pressure drop and long service life. The inside and outside of the cartridge has powerful supports with high pressure resistance, the performance can be recovered by back flushing and back washing, the operation cost is significantly reduced.

◆ Economical

Large Filtration area

Filtration Area: 36 square meter

◆ Materials

Filter Media : Polypropylene

Support Layers : Polypropylene

Inner core : Polypropylene

Outer Support : Polypropylene Cage

◆ Ratings

0.2um, 1.2um, 3um

8um, 10um, 15um

◆ Cartridge Dimensions (Nominal)

Length: 40inch

Outer Diameter : OD 10.63inch (270mm)



◆ Features

All Polypropylene material, excellent chemical compatibility

Gradient pore filtration media, optimized pleat structure

Integrate prefiltration and final filtration in one step

Performance recovery by flushing and washing using cold

water, hot water and hot caustic solution

Big filtration area, high flow, long service life

Less quantity to be used, easy and quick to install

◆ Operating Conditions

Normal work temperature: up to 55 °C

Maximum pressure drop: 2.5bar

Reverse 0.5Bar at 25°C

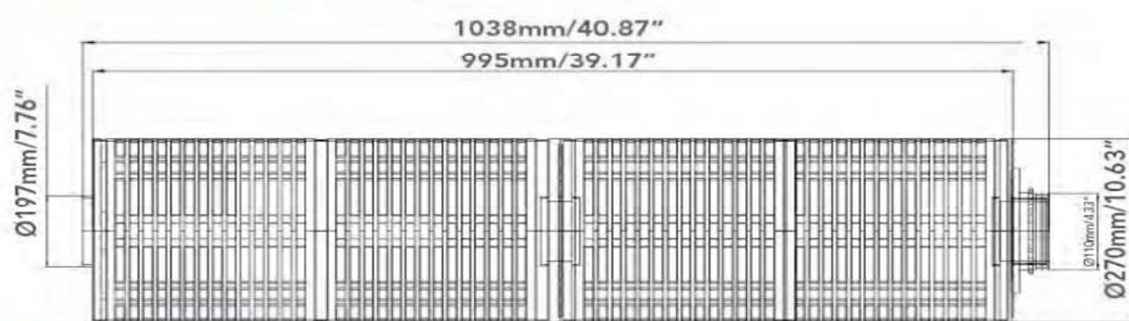


Table 1: ORDER INFORMATION

Cartridge Filter	Filter Media	Micron Rating	Length	Adapters	O-Ring
BPF1141	PP=Polypropylene	020=0.2um 120=1.2um 300=3um 800=8um 1000=10um	A=40inch	A=Code A	S=Silicon

Clarification range (Coarse filter)

Model	Thickness (mm±0.3)	Grammage (g/m2±100)	Density (≥cm3)	Micron Rating (≤μm)	Filter speed (≥ml/cm2 s)	Wet strength (kpa)
T500	3.7	1200	0.27	55	1.0×10^{-2}	2.43*10 ³
T550	3.3	1050	0.28	50	1.3×10^{-2}	
T600	4.0	1300	0.31	45	2.7×10^{-2}	
T650	4.2	650	0.32	40	8.0×10^{-2}	

HETO Fine filtration range

Model	Thickness (mm±0.3)	Grammage (g/m2±100)	Density (≥cm3)	Micron Rating (≤μm)	Filter speed (≥ml/cm2 s)	Wet strength (kpa)
F80	3.8	1300	0.34	20	4.0×10^{-3}	465
F90	4.2	1400	0.35	15	3.0×10^{-3}	
F100	3.8	1400	0.36	10	2.5×10^{-3}	
F101	3.6	1350	0.35	15	8.0×10^{-3}	
F102	3.8	1400	0.34	10	4.0×10^{-3}	
F103	3.6	1250	0.35	10	3.0×10^{-3}	
F110	3.8	1350	0.34	25	8.0×10^{-3}	
F120	3.8	1400	0.34	20	6.5×10^{-3}	

HETO Sterile filtration range

Model	Thickness (mm±0.3)	Grammage (g/m2±100)	Density (≥cm3)	Micron Rating (≤μm)	Filter speed (≥ml/cm2 s)	Wet strength (kpa)
H50	3.0	1200	0.36	20	5.0×10^{-3}	411
H70	3.5	1400	0.38	0.5	3.0×10^{-3}	
H71	3.8	1450	0.39	0.3	2.8×10^{-3}	
H72	3.6	1350	0.37	0.6	4.0×10^{-3}	
H73	4.2	1500	0.38	10	0.8×10^{-3}	
H74	3.5	1400	0.39	15	1.0×10^{-3}	

Remarks:

1. Size(cm): 20*20/40*40/60*61/100*120/etc.
2. Sample is available, but buyer bear express charges.
3. Customer's sample available. we can produce as your sample.
4. Packing: 20pcs/bag or 25pcs/bag

LBF Filter Cartridges

Oilbond Depth Filter Cartridges



◆ General Description

LBF oilbond pleated filter cartridge are manufactured for the oil industrial region. A range of length options and micron ratings. The filter media has a fixed pore construction of high quality the combination of the surface and depth filtration provides fibers a long lifetime. Due to use of the premium quality filter fabrics, the pleated filter cartridges have superior flow characteristics with very low pressure drop compare to normal depth media of similar micron rating, the large filtration area have a high dirt-holding capacity and save the cost.

◆ Material of Constructions

Filter Media: PP, PET, Glass Fiber
End Cap Material: PP, ABS
Inner Code: PP, ABS
Netting: PP, PE
Seal Oring: Silicone, EPDM, NBR, Viton
End Cap Types: DOE, 222/Flat, 222/Fin



◆ Dimension

Outside Diameter: 69mm & 63mm
Inside Diameter: 28mm
Length: 10", 20", 30", 40"

◆ Micron Rating

1um, 2um, 5um, 10um, 20um, 50um

◆ Typical Applications

Chemical	Oil & Gas Industrial
Petroleum	Process Water
Electronics	Coatings, Paint

◆ Operating Conditions

Normal Work Temperature: 20 °C
Max Work Temperature: Up to 80 °C
Max Differential Pressure:
Normal Flow Direction: 5Bar @ 20 °C
3Bar @ 65 °C

Table 1: Typical water flow rate (10")

Δ P-bar (1bar ≈ 14.5psi)

Pressure Drop vs. Flowrate @ 20 °C per 10"

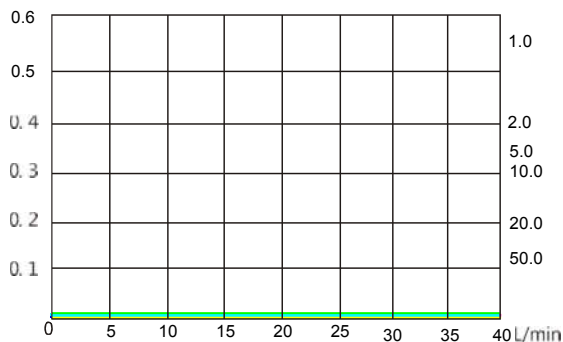


Table 2: ORDER INFORMATION

Cartridge Filter	Filter Media	Micron Rating	Length	Adapters	O-Ring
LBF	PP=Polypropylene PT=PET GF=Glass Fiber	100=1um 200=2um 500=5um 1000=10um	10=10" 20=20" 30=30" 40=40"	B=Double plate seal E=222/Fin E1=222/Flat	S=Silicone N=Buna N V=Viton E=Epdm

Felt Bag Filter

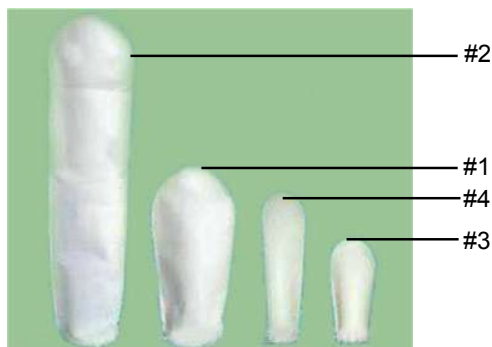
Standard Liquid Felt Filter bag



◆ 产品介绍

Filter bags are used in different region according to different materials. Standard Size, #1, #2, #3, #4 are suitable for the housing from different manufacturers, the micron from 1.0um to 500um with high dirty capture and high flow rate.

◆ Size



◆ Applications

Paint/Ink	Pre-filtration
Coatings	Process Water
Lubricants	Wastewater
Resins	Chemicals
Beverages	

◆ Material Selection Guide

Filter Medium	PP	PE	NYLON	
Potables liquid, water	4	3	1	
Organic Solvents	3	4	4	
Oils	2	3	4	
Organic Acids	4	3	2	
Alkalies	4	0	4	
Oxidizing Acids	1	3	2	
Strong Inorganic Acids	4	2	0	
Dilute Inorganic Acids	4	3	1	

0=Not Recommended 1=Poor 2=Fair 3=Good 4=Excellent

◆ Dimension

#1 7"×16"
 #2 7"×32"
 #3 4"×8.25"
 #4 4"×14"

Table 1 : ORDER INFORMATION

Bag Filter	Filter Media	Micron Rating	Size	Seals	O-Ring
FBF	E=polyester P=polypropylene N=Nylon	001=1um	1=#1	TB=Thermal bond TS=Thread sewing	P=PP S=Stainless Steel
		005=5um	2=#2		
		010=10um	3=#3		
		020=20um	4=#4		
		050=50um			
		500=50um			

SSTT Filter Cartridges

Stainless Steel Metallic Filter Cartridges



◆ Typical Applications

Suitable for the extreme operating environments, steam filtration.
 Pharmaceuticals: Prefiltration and decarbonate filtration.
 Food & Beverages: Viscous liquid with high temperature.
 Fine Chemicals: Strong Acid and Alkaline filtration.
 Water: Filtrate the O-zone containing water.

◆ Mechanical Strength

Metal structure and sintered at high temperature

◆ High Temperature And Pressure Resistant

Cartridges can work under extreme high temperature and pressure conditions.

◆ Wide Chemical Compatibility

Cartridges can resist to strong acid, alkaline and Ozone Oxidation.

◆ Long Life

Cartridges can be backwashable and cleaned by chemical solvent, hot water, steam

◆ Materials

Filter Media : Titanium powder Sintered
 SUS316 powder Sintered

◆ Cartridge Dimensions (Nominal)

Outer Diameter : 60mm / 80mm
 Length : 10" - 250mm
 Length : 20" - 500mm 30" - 750mm 40" - 1000mm

◆ Nominal Micron

1um, 5um, 10um, 20um, 50um



Cartridge Cleaning Methods

* Pharmaceutical, Food & Beverage industries:
 Hot water flush; Steam clean; Water Backwash
 Brush clean; Compress air blow.

* Chemical Industry:
 Chemical Solvent clean; Ultrasonic cleaning
 High pressure water spray rinsing; Acid dipping.

Table 2: Liquid Retention Ratings(um) Test

Micron	≥80%
1.0	1
5.0	5
10.0	10
20.0	20
50.0	50

Table 3: ORDER INFORMATION

Cartridge Filter	Filter Media	Micron Rating	Length	Adapters	O-Ring
SS	TT=Stainless Steel Ti=Titanium	001=1um	10=10"	A=Double plate open	S=Silicone
		005=5um	20=20"	B=1" NPT	N=Buna N
		010=10um	30=30"	E=222/Fin	V=Viton
		020=20um	40=40"	E1=222/Flat	E=Epdm
		050=50um		E2=222/Fin(Three Tabs)	
				F=226/Fin	
				F1=226/Flat	

MCH Cartridge Filter Housing

Stainless Steel Multi Cartridge Filter Housing



◆ Introduction

Surfaces are polished for fast and easy cleaning, which minimizes the risk of contamination, improves clean and enhances corrosion resistance. Sanitary vents and drains facilitate, integrity testing, venting, safe and easy draining. proper O-ring seal for 222, 226 and DOE element, optional sanitary drain valves enable complete drainage of liquids after filtration and simplify filter removal.

◆ Applications

Pharmaceutical
Chemicals, Electronics
Food & Beverage
Biotechnology



◆ Technical Specification

Maximum Operating Temperature : 110°C (230°F)
Maximum Operating Pressure : 10 bar at 75°C
(150 psi at 167°F)
Pressure tolerance on weld: 0.85

◆ Main Parameters

No. of Cartridges	A			B			C	D	E
	20"	30"	40"	20"	30"	40"			
3-4R	970	1220	1470	600	800	1050	219	200	360
5-6R	1055	1255	1505	600	800	1050	250	200	400
7R	1028	1278	1528	600	800	1050	273	200	420
8R	1048	1298	1548	600	800	1050	300	200	450
9R	1048	1298	1548	600	800	1050	325	200	470
11-12R	1057	1307	1557	600	800	1050	350	200	500

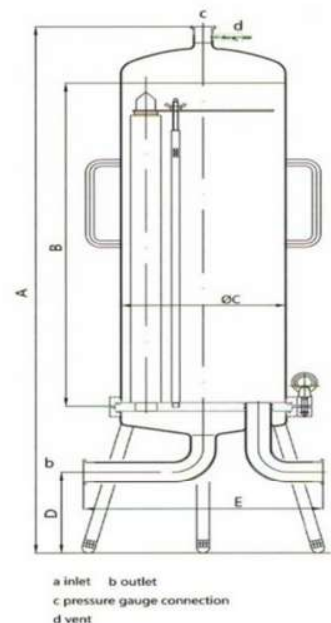


Table4: ORDER INFORMATION

Cartridge Filter	Housing Materials	Elements NO	Element Length	Element Adapters	O-Ring	Connection Standard
MCH	A=SS304 B=SS316	1	10=10"	A=Double open	S=Silicone	BP=BSP
		2	20=20"	E=222/Fin	N=Buna N	TC=Clamp
		3	30=30"	F=226/Fin	V=Viton	D=DIN
		...	40=40"		E=Epdm	
		20 21			T=Teflon	

Lenticular Filter Housing

Stainless Steel Filter Housing



◆ Introduction

Lenticular filters have a long history in food and beverage applications. They arose out of the need to package sheet-based depth filters technology in more user-friendly, modular closed systems, especially for small batch production or medium flow rate applications.

The filter housing can be suitable for different brand's filter. valves enable complete drainage of liquids after filtration and simplify filter removal.

◆ Applications

Sugar Syrups
Beer, Wine
Fruit Juice
Liquor Gelatine, Olive Oil

◆ Technical Specification

Maximum Operating Temperature : 110°C (230°F)

Maximum Operating Pressure : 10 bar at 75°C
(150 psi at 167°F)

Pressure tolerance on weld: 0.85

◆ Main Parameters

Item	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
ZTDB-08DB1	890	470	350	280	250	300
ZTDB-08DB2	1160	740	620	280	250	300
ZTDB-08DB3	1460	1010	890	280	250	300
ZTDB-08DB4	1700	1280	1160	280	250	300
ZTDB-12DB1	930	510	350	280	350	400
ZTDB-12DB2	1200	780	620	280	350	400
ZTDB-12DB3	1470	1050	890	280	350	400
ZTDB-12DB4	1740	1320	1160	280	350	400
ZTDB-16DB1	950	530	350	280	450	500
ZTDB-16DB2	1220	800	620	280	450	500
ZTDB-16DB3	1490	1070	890	280	450	500
ZTDB-16DB4	1760	1340	1160	280	450	500

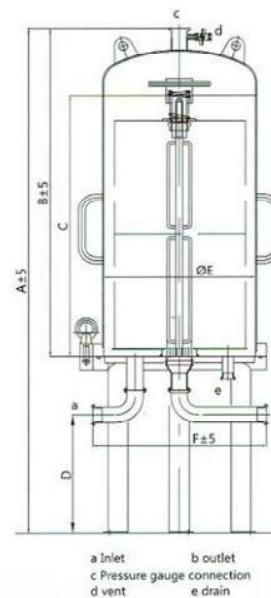


Table4: ORDER INFORMATION

Lenticular Filter Housing	Moudle OD	Moudle Height	Moudle NO.	Housing Materials	O-Ring	Connection Standard
ZTDB	08=8inch 12=12inch 16=16inch	DA= 270mm DB= 367mm	1= 1Moudle 2= 2Moudle 3= 3Moudle 4= 4Moudle	A=SS304 B=SS316	S=Silicone N=Buna N V=Viton E=Epdm T=Teflon	BP=BSP TC=Clamp D=DIN

MBH BAG Filter Housing

Sanitary Stainless Steel Bag Housings



◆ Features

Bag filter Housing range provides filtration solution for a broad variety of fluid applications in the process industry. Bag housing bag, Bag filter housing positive sealing arrangement and choice is constructed of filter housing, filter bags, internal cage to support of end connections. The internal support ensures bags will not burst as high differential pressures build up during operation.

◆ Operation

Unfiltered fluid enters the filter housing and is distributed evenly around the filtration bags. Filtration takes place from inside to outside. Solids are collected on the inside of filter bag for easy removal. The filtered fluid then exits through the outlet pipe. Multi-Bag Vessels are designed for high flow and/or high contaminant load applications where clean effluent is critical.

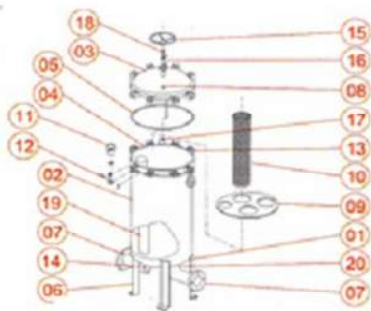
◆ Application

Food & Beverages, Water Treatment
Pharmaceuticals, Coating, ink
Fine Chemicals, Mineral Water

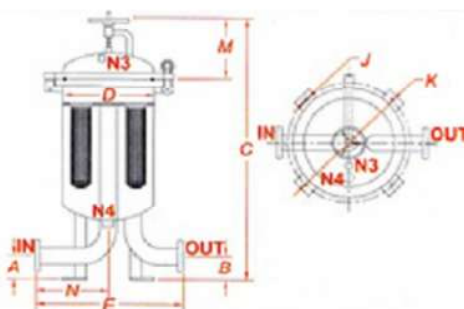
◆ Operation Data

Maximum Operating Temperature: 75 degrees Celcius

Maximum Operating Pressure: 10bar @ 75 degrees Celcius



NO	Description	Qty	NO	Description	Qty
01	End Plate	1	11	Eye Nut	8-28
02	Shell	1	12	Eye Bolt	8-28
03	Top Cover	1	13	Eye Bolt Socket	8-28
04	Flange	1	14	Drain	1
05	O-ring	1	15	Turntable	1
06	Mounting-legs Module	1	16	Davit Lifter	1
07	Port(Inlet/outlet)	1	17	Bearing	1
08	Vent	1	18	Screw	1
09	Filter Bag Plate	1	19	Pipe	1
10	Basket	2-14	20	Curve Pipe	2



Model	Port	A	B	C	D	E	J	K	M	N	N3	N4	F
MBHA022	3"	108	108	1423	406	584	14516	370	330	1/2"	2"		90
MBHA023	3"	108	108	1485	508	686	14518	407	343	1/2"	2"		135
MBHA024	3"	108	108	1493	560	698	14704	410	368	1/2"	2"		180
MBHA025	3"	108	108	1493	560	698	14704	410	368	1/2"	2"		225
MBHA026	3"	108	108	1503	600	724	14744	415	368	1/2"	2"		270
MBHA027	3"	108	108	1783	762	813	14962	650	407	1/2"	2"		315
MBHA028	4"	127	127	1783	762	864	14862	591	432	1/2"	2"		360
MBHA029	6"	152	152	1972	813	1016	141013	665	559	1/2"	2"		405
MBHA0210	6"	152	152	2012	864	1092	141065	685	609	1/2"	2"		450
MBHA0212	8"	184	184	2158	965	1130	141215	710	597	1/2"	2"		540
MBHA0214	10"	216	216	2267	965	1219	141215	710	686	1/2"	2"		630

ORDER INFORMATION

Notice: UNIT:mm F=Flow Rate UNIT:m3/h

Bag Housing	Material	Filter Bag Size	No. Of Bag	Connection	Inlet/Outlet	Example
MBH	A=SUS304 B=SUS316L	02=Size2	2=2pcs 14=14pcs	C=Sanitary Clamp D=Din Flange B=BSPF	3=3" 10=10"	Material: SUS316L Filter Bags: 02 No of bag: 3 Inlet/outlet size: 3" Connection: Din Flange EX: MBHB023D3