

BGPF Series Filter Cartridges



Product Introduction

BGPF series filter utilizes glass fiber media which increases dirt holding capacity and provides consistent filtration efficiency. The reinforced outer cage and center core make BGPF series provide secure operation through numerous cycles of hot water sanitization, which is typically used in food and beverage industry. BGPF series filters are especially designed for removal of contaminants like yeasts or other spoilage organisms and work well at pre-filtration stage in wine bottling process. BGPF series enables to protect and prolong the life time of final, high-value membrane filters.

- All materials meet FDA requirements for food and beverage contact
- Manufactured under a certified ISO 9001 quality system
- Manufactured in class 10,000 clean room

Product Specifications

Materials of Construction

- Filter Media: Glass Fiber
- Hardware: Polypropylene
- Sealing: Thermal Bond
- Support Material: Polyester
- Gaskets/O-rings: Silicone

Dimensions

- Outside Diameter: 2.8" (71mm)
- Lengths: 10", 20", 30", 40"

Performance Specifications

Retention Ratings

0.5, 0.6, 1.2 μ m Absolute

Operating Conditions

- Maximum Operating Differential Pressure:
75 psid (5.1 bar) @ 68°F (20°C)
40 psid (2.8 bar) @ 150°F (65°C)
- Maximum Operating Temperature:
180°F (82°C), CIP 220°F (105°C)
- Recommended Change Out Differential Pressure:
35 psid (2.4 bar)
- Sanitization & Sterilization: Hot Water @ 90°C for 30 mins.

FDA Listed Materials

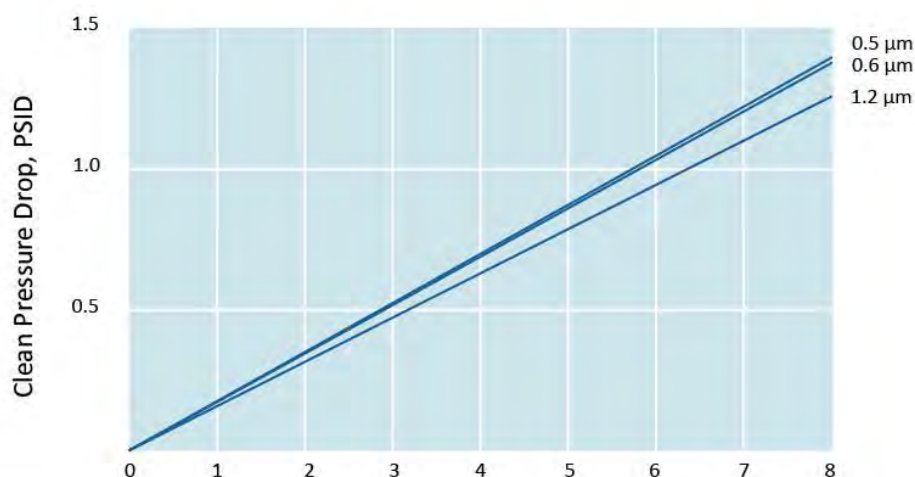
Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.



Sanitizing Agents

Cartridge may be sanitized in place with common oxidizing agents. Consult factory for compatibility information.

Liquid Flow Rate vs. Initial Differential Pressure



Flow Rate, GPM, Water@AMB.

Flow rate is per 10" cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoises

Ordering Information

BGPF	0.5-	30-	7	S	(PSI)
Product Name	Retention Rating	Cartridge Length	End Configuration	Gasket/O-ring Material	End Cap Insert
BGPF	0.5, 0.6, 1.2 µm	10" 20" 30" 40"	DOE=Double Open End Code 3=222 / Flat Code 8=222 / Fin Code 7=226 / Fin, Bayonet Code 28=222 / Fin, Bayonet	S=Silicone	PSI=Polysulfone Insert

BPPF Series Filter Cartridges



Product Introduction

BPPF series utilizes melt blown polypropylene sheet as filter media which delivers consistent performance. The reinforced outer cage and center core enable to withstand harsh operating conditions, for example, hot water sanitization, which is typically used in food and beverage industry. BPPF series can significantly reduce numbers of yeasts and spoilage organisms from beverage products to provide microbial stabilization. In this case, BPPF series can be applied at pre-filtration stage of wine or beer bottling process and prolong the service life of the final filters.

- Manufactured in class 10,000 clean room
- Manufactured under a certified ISO 9001 quality system
- All materials meet FDA requirements for food and beverage contact

Product Specifications

Materials of Construction

- Filter Media: Polypropylene
- Hardware: Polypropylene
- Sealing: Thermal Bond
- Support Material: Polypropylene
- Gaskets/O-rings: Silicone

Dimensions

- Outside Diameter: 2.8" (71mm)
- Lengths: 10", 20", 30", 40"

Performance Specifications

Retention Ratings

0.2, 0.6, 1.2, 2.5, 5, 10, 20, 30 µm Absolute

Operating Conditions

- Maximum Operating Differential Pressure:
75 psid (5.1 bar) @ 68°F (20°C)
40 psid (2.8 bar) @ 150°F (65°C)
- Maximum Operating Temperature:
180°F (82°C), CIP 220°F (105°C)
- Recommended Change Out Differential Pressure:
35 psid (2.4 bar)
- Sanitization & Sterilization: Hot Water @ 90°C for 30 mins.

FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Capsule Series Disposal Filters



Product Introduction

Fintrafine capsule series disposal filter's compact design permits efficient filter change-out to reduce equipment down-time and maintenance costs. The easy change-out structure is suitable for high pure water or toxic chemical. It utilizes high purity polypropylene outer cage and center core which can enhance mechanical strength of filter. Each filter element is stamped with pore size, lot number and serial number for identification and traceability.

- Manufactured in a class 10,000 clean room
- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Filter Media: Melt Blown Polypropylene, PES, PTFE
- Hardware: Polypropylene
- Sealing: Thermal Bond
- Support Material: Polypropylene

Dimensions

- Outside Diameter: 2.7" (69mm)
- Inlet/Outlet: 1/4" PT, NPT, SW
- Vent: 1/8" PT, NPT
1/4" SW
- Drain: 1/8" PT, NPT
1/4" SW

Performance Specifications

Retention Ratings

- RFCP: 0.2, 0.45, 0.8, 1, 2, 3, 5, 10, 30, 100 μm
- RFCS: 0.04, 0.1, 0.2, 0.45, 0.8, 1.2 μm Absolute
- RFCF: 0.05, 0.1, 0.2 μm Absolute

Operating Conditions

- Maximum Operating Pressure:
60 psid (4.1 bar) @ 77°F (25°C)
- Maximum Operating Temperature: 140°F (60°C)

FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

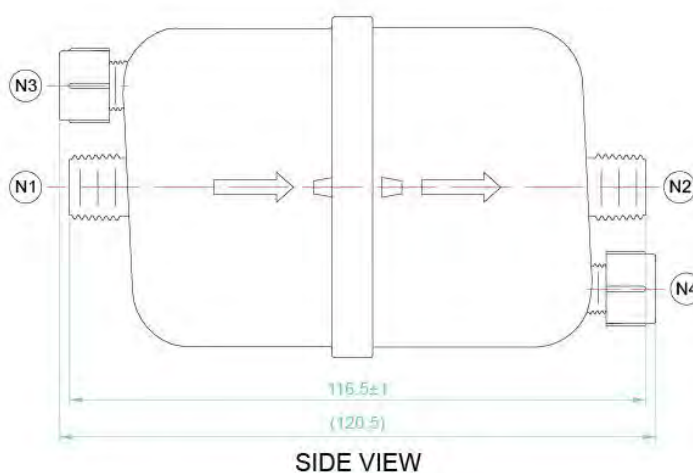
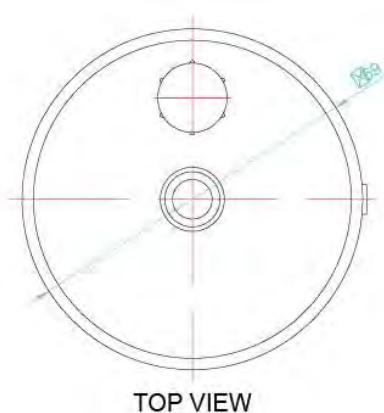
Purity

Capsule series filters are free of resins, binders and adhesives.



Toxicity

All polypropylene components meet the specifications for biological safety as per the USP for Class VI-121°C plastics. (gaskets/o-rings excluded)



Capsule Type	N1	N2	N3	N4
Capsule SW	1/4" SW	1/4" SW	1/4" SW	1/4" SW
Capsule PT	1/4" PT	1/4" PT	1/8" PT	1/8" PT
Capsule NPT	1/4" NPT	1/4" NPT	1/8" NPT	1/8" NPT

Ordering Information

RFCP	0.2-	1/4	TN
Product Name	Retention Rating	Inlet/Outlet Connection	Connection Type
RFCP (PP)	0.2, 0.45, 0.8, 1, 2, 3, 5, 10, 30, 100 µm	1/4=1/4"	SW=Swagelok Connection TP=PT Thread TN=NPT Thread
RFCS (PES)	0.04, 0.1, 0.2, 0.45, 0.8, 1.2 µm		
RFCF (PTFE)	0.05, 0.1, 0.2 µm		

Carbon-Clean Series Filter Cartridges



Product Introduction

CB-B Series



Carbon-Clean's CB-B series filter is a cost effective alternative to granular activated carbon cartridge. It is excellent at absorbing unwanted taste, odor and color. Besides, CB-B cartridge is durable by its strength crushing process. It's a suitable choice for potable water and food service applications. CB-B also utilizes high porosity design of carbon to provide premature plugging, and its polypropylene inner and outer layer filtration media can provide pre-filtration and post-treatment.

CB-WS Series

Carbon-Clean's CB-WS series filter has carbon-impregnated cellulose media that can provide lower pressure drops than conventional carbon block filter technology. In addition, CB-WS series filter's carbon technology can improve the quality of potable water by removing unwanted taste, odor and color. Besides, its polypropylene components provide a wide range of options to address chemical compatibility concerns.



CB-RC Series



Carbon-Clean's CB-RC series filter is excellent at polishing filter for process or closed loop streams. Its high quality carbon sheet increases the absorption efficiency and capacity. In addition, it can remove chlorine and eliminate trace odor. CB-RC series filter's rigid polypropylene center core enhances the mechanical strength of filter cartridge, and its elastomeric end caps can improve sealing performance by minimizing the chance of bypass.

- All materials are FDA listed for food and beverage contact
- Manufactured under a certified ISO 9001 quality system



Product Specifications

Materials of Construction

	Filter Media	Outer Netting	End Cap	Inner/Outer Wrap
CB-B	Bonded porous activated carbon with polyethylene binders	Polyethylene	polypropylene	polypropylene
CB-WS	Carbon impregnated fibers protected by upstream and downstream polypropylene string wound fibers	None	None	polypropylene string wound fibers
CB-RC	Powder activated carbon impregnated polyester	Polyethylene	polypropylene	None

Dimensions

Outside Diameter: 2.56" (65mm)
Lengths: 10", 20", 30", 40"

Performance Specifications

Retention Ratings

CB-B: 5 µm
CB-WS: 5 µm
CB-RC: 5 µm

FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Operating Conditions

- Maximum Operating Temperature:
CB-B: 180°F (82°C)
CB-WS: 180°F (82°C)
CB-RC: 180°F (82°C)

Notes: 1. The drinking water of unknown quality may require proper disinfection or pre-treatment in addition to carbon filtration.
2. CB-B and CB-WS series contain a very small amount of carbon fines. After installation, please flush the cartridge for a minimum of 5 minutes to remove all traces of carbon prior to using them in the process. Use the tap water to flush the cartridge for at least 20 seconds prior using for drinking water or cooking purposes.
3. Steps should be taken to prevent the filter cartridge from freezing. This may affect cartridge performance.

Ordering Information

CB-	B	10	P
Product Name	Filter Type	Cartridge Length	Core Material
	B=Carbon Block	10", 20", 30", 40"	
CB	WS=Carbon Sheet with PP String Wound	10", 20", 30", 40"	P=PP
	RC=Carbon Sheet	10", 20"	

Clear-Fine Series Filter Cartridges



Product Introduction

Clear-Fine series filter cartridges utilize continuous fiber matrix to prevent media migration and ensure consistent filtration performance. Clear-Fine series filter elements are done with well surface treatment to eliminate any possibilities of fiber releasing. They are made with proprietary center core to enhance mechanical strength of cartridge. In addition, each Clear-Fine series cartridge is thermal bonded with foamed PE gaskets for better sealing. Besides, Clear-Fine series filters are free of surfactants, so the elements will not contaminate the filtrate.

- All materials meet FDA requirements for food and beverage contact
- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Filter Media: Depth Spun Polypropylene
- Center Core: Polypropylene
- End Caps(DOE): Polyethylene Foam
- End Caps(SOE): Polypropylene
- O-rings: Silicone, Buna-N, EPDM, Viton

Dimensions

- Outside Diameter: 2.5" (63mm)
- Inside Diameter: 1.1" (28mm)
- Lengths: 10", 20", 30", 40"

Performance Specifications

Retention Ratings

0.5, 1, 3, 5, 10, 30, 50, 75 μ m

Operating Conditions

- Maximum Operating Temperature: 180°F (82°C)
- Recommended Change Out Differential Pressure: 35 psid (2.4 bar)

FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Purity

All Clear-Fine series filter cartridges are free of surfactants, anti-static agents, binders and adhesives.



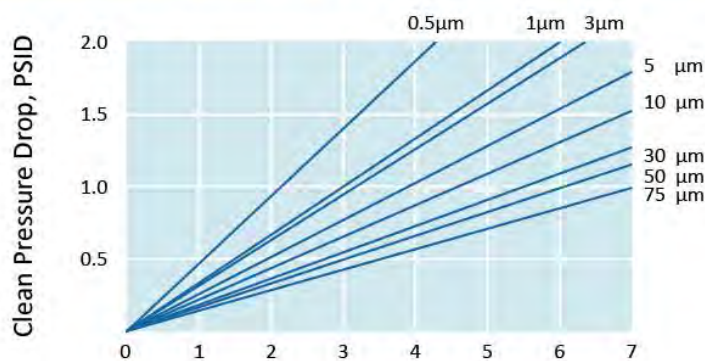
Toxicity

All cartridge components meet USP-XXIII, Class V Criteria.

Applications

Chemical Industry	Paint, Ink, Magnetic Paint, Oil, Solvent, Enzyme, Plating Chemicals, Adhesive, Resin, Photographic Chemical, Metalworking, etc.
Food and Beverage Industry	Wine, Potable Water, Beer, Soft Drink, Brewery, Sugar Liquid, Edible Oils, etc.
General Process Industry	LCD, Chemical Liquid, Plating Liquid, Pre-Filtration for RO/UF, Pure Water, Resin Trap, Water Treatment, etc.

Liquid Flow Rate vs. Initial Differential Pressure



Flow Rate, GPM, Water@AMB.

Flow rate is per 10" cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoises

Ordering Information

CLF	5-	10	P-	3	E
Product Name	Retention Rating	Cartridge Length	Core Material	End Configuration	O-ring Material
CLF	0.5, 1, 3, 5, 10, 30, 50, 75 µm	10" 20" 30" 40"	P=PP	No Symbol=DOE Code 3=222 / Flat Code 8=222 / Fin Code 7=226 / Fin, Bayonet	N=Buna-N E=EPDM V=Viton S=Silicone

Electron-Fine A Series Filter Cartridges



Product Introduction

Electron-Fine A series filter cartridges utilize continuous fiber matrix to prevent media migration and ensure consistent filtration performance. Electron-Fine A series filter elements are done with well surface treatment to eliminate any possibilities of fiber release. They are made with proprietary center core to enhance mechanical strength of cartridge. In addition, Electron-Fine A series cartridges are thermal bonded with foam PE gaskets for greater sealing, so they are free of surfactants, binders and adhesives to interfere with product quality or cause foaming.

- All materials meet FDA requirements for food and beverage contact
- Absolute rated at 99.9% efficiency with retention
- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Filter Media: Depth Spun Polypropylene
- Center Core: Polypropylene
- End Caps(DOE): Polyethylene Foam
- End Caps(SOE): Polypropylene
- O-rings: Silicone, Buna-N, EPDM, Viton

Dimensions

- Outside Diameter: 2.5" (63mm)
- Inside Diameter: 1.1" (28mm)
- Lengths: 10", 20", 30", 40"

Performance Specifications

Retention Ratings

1, 3, 5, 10, 20, 30 μ m Absolute

Operating Conditions

- Maximum Operating Differential Pressure:
50 psid (3.45 bar) @ ambient
25 psid (1.72 bar) @ 140°F (60°C)
- Maximum Operating Temperature: 180°F (82°C)
- Recommended Change Out Differential Pressure:
35 psid (2.4 bar)

FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Purity

All Electron-Fine A series filter cartridges are free of surfactants, anti-static agents, binders and adhesives.



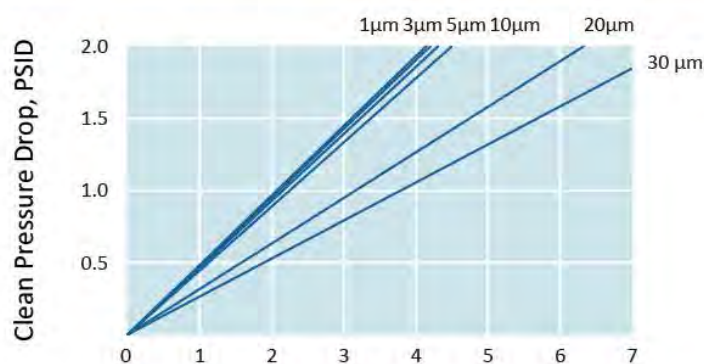
Toxicity

All cartridge components meet USP-XXIII, Class V Criteria.

Applications

E-Chemical Industry	Paint, Ink, Magnetic Paint, Dry Film, Solvent, Plating Chemical, Adhesive, Resin, Photographic Chemical, Machine Coolant, etc.
Food and Beverage Industry	Wine, Potable Water, Beer, Soft Drink, Brewery, Sugar Liquid, Edible Oils, Mouthwash, Lotion, etc.
Electronics Industry	LCD, Chemical Liquid, Plating Liquid, Pre-Filtration for RO/UF, UPW, Resin Trap, etc.

Liquid Flow Rate vs. Initial Differential Pressure



Flow Rate, GPM, Water@AMB.

Flow rate is per 10" cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoises

Ordering Information

ECO A	5-	10	P-	3	E
Product Name	Retention Rating	Cartridge Length	Core Material	End Configuration	O-ring Material
ECO A	1, 3, 5, 10, 20, 30 µm	10" 20" 30" 40"	P=PP	No Symbol=DOE Code 3=222 / Flat Code 8=222 / Fin Code 7=226 / Fin, Bayonet	N=Buna-N E=EPDM V=Viton S=Silicone

Electron-Fine Series Filter Cartridges



Product Introduction

Electron-Fine series filter cartridges utilize continuous fiber matrix to prevent media migration and ensure consistent filtration performance. Electron-Fine series filter elements are done with well surface treatment to eliminate any possibilities of fiber release. They are made with proprietary center core to enhance mechanical strength of cartridge. In addition, Electron-Fine series cartridges are thermal bonded with foam PE gaskets for greater sealing, so they are free of surfactants, binders and adhesives to interfere with product quality or cause foaming.

- All materials meet FDA requirements for food and beverage contact
- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Filter Media: Depth Spun Polypropylene
- Center Core: Polypropylene
- End Caps(DOE): Polyethylene Foam
- End Caps(SOE): Polypropylene
- O-rings: Silicone, Buna-N, EPDM, Viton

Dimensions

- Outside Diameter: 2.5" (63mm)
- Inside Diameter: 1.1" (28mm)
- Lengths: 10", 20", 30", 40"

Performance Specifications

Retention Ratings

0.5, 1, 3, 5, 10, 30, 50, 75 μ m

Operating Conditions

- Maximum Operating Differential Pressure:
50 psid (3.45 bar) @ ambient
25 psid (1.72 bar) @ 140°F (70°C)
- Maximum Operating Temperature: 180°F (82°C)
- Recommended Change Out Differential Pressure:
35 psid (2.4 bar)

FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Purity

All Electron-Fine series filter cartridges are free of surfactants, anti-static agents, binders and adhesives.



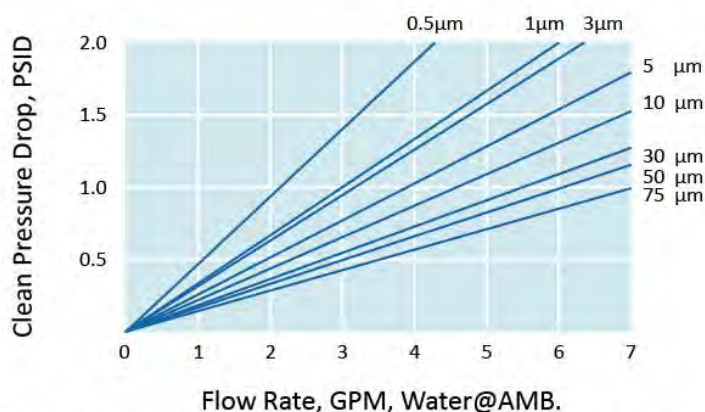
Toxicity

All cartridge components meet USP-XXIII, Class V Criteria.

Applications

E-Chemical Industry	Paint, Ink, Magnetic Paint, Dry Film, Solvent, Plating Chemical, Adhesive, Resin, Photographic Chemical, Machine Coolant, etc.
Food and Beverage Industry	Wine, Potable Water, Beer, Soft Drink, Brewery, Sugar Liquid, Edible Oils, Mouthwash, Lotion, etc.
Electronics Industry	LCD, Chemical Liquid, Plating Liquid, Pre-Filtration for RO/UF, UPW, Resin Trap, etc.

Liquid Flow Rate vs. Initial Differential Pressure



Flow rate is per 10" cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoises

Ordering Information

ECO	5-	10	P-	3	E
Product Name	Retention Rating	Cartridge Length	Core Material	End Configuration	O-ring Material
ECO	0.5, 1, 3, 5, 10, 30, 50, 75 µm	10" 20" 30" 40"	P=PP	No Symbol=DOE Code 3=222 / Flat Code 8=222 / Fin Code 7=226 / Fin, Bayonet	N=Buna-N E=EPDM V=Viton S=Silicone

Extra-Flow Series Filter Cartridges



Product Introduction

Extra-Flow series filter cartridges combine the advantages of depth cartridges and traditional pleated cartridges. This series is made of proprietary gel capturing filter media which is all polypropylene construction. Therefore, Extra-Flow series filters deliver high efficiency performance when removing gels from liquid. Moreover, Extra-Flow series has high surface area for high flow rate with low pressure drop to provide long service life.

- Absolute rated at 99.9% efficiency with retention
- Manufactured in a class 10,000 clean room
- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Filter Media: Polypropylene Melt Blown
- Hardware: Polypropylene
- Sealing: Thermal Bond
- Support Material: Polypropylene
- Gaskets/ O-rings: Silicone, Buna-N, EPDM, Viton, Teflon Encapsulated Viton

Dimensions

- Outside Diameter: 2.67" (68mm)
- Lengths: 10", 20", 30", 40"

Performance Specifications

Retention Ratings

1, 3, 5, 10, 15, 20, 40 μ m Absolute

Operating Conditions

- Maximum Operating Differential Pressure:
75 psid (5.1 bar) @ 68°F (20°C)
40 psid (2.8 bar) @ 150°F (65°C)
- Maximum Operating Temperature: 180°F (82°C)
- Recommended Change Out Differential Pressure:
35 psid (2.4 bar)

FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Purity

All Extra-Flow series filter cartridges are free of surfactants, anti-static agents, binders and adhesives.



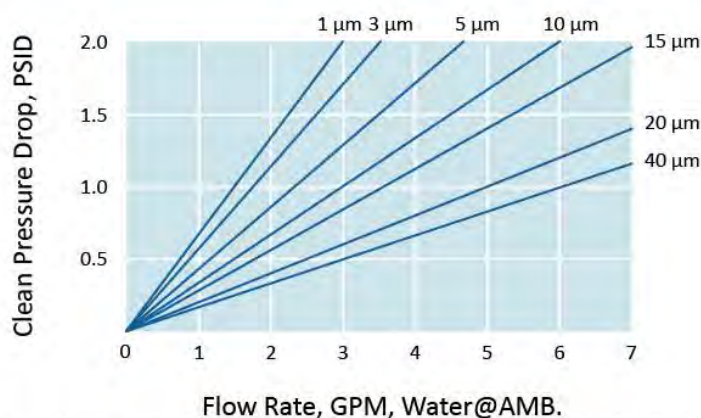
Toxicity

All components meet the specifications for biological safety as per the USP for Class VI-120°C Plastics (gaskets/ o-rings excluded)

Sterilization

Multiple autoclaving for 30 minutes at 250°F (121°C) under no end load conditions. In-line steam sterilization is not recommended. May be in-line sanitized with hot water at 180°F (82°C) for 1 hour.

Liquid Flow Rate vs. Initial Differential Pressure



Flow Rate, GPM, Water@AMB.

Flow rate is per 10" cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoises

Ordering Information

EXA	5-	10-	3	E
Product Name	Retention Rating	Cartridge Length	End Configuration	Gasket/O-ring Material
EXA	1, 3, 5, 10, 15, 20, 40 µm	10" 20" 30" 40"	DOE=Double Open End Code 3=222 / Flat Code 8=222 / Fin Code 7=226 / Fin, Bayonet	N=Buna-N E=EPDM V=Viton S=Silicone F=Teflon Encapsulated Viton

FasClean-Flow Series Filter Cartridges



Product Introduction

FasClean-Flow series filter cartridges have extra high surface area for high flow filtration. It is commonly a superior choice for generation 7 & 8 TFT-LCD glass cleaning and high-end wet processing applications. The high purity polypropylene hardware construction of FasClean-Flow series can be applied to many process fluids to ensure wide chemical compatibility. The compact cartridge design of FasClean-Flow series permits long on-stream life to reduce equipment down-time and maintenance costs. Besides, it is compatible with Filtrafine CSV series filter housing.

- Manufactured in a class 1,000 clean room
- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Filter Media: E: Depth Melt Blown Polypropylene
P: High Flow Melt Blown Polypropylene
S: Highly Asymmetric PES Membrane
T: Expanded Polytetrafluoro-ethylene (ePTFE) Membrane
- Hardware: High Purity Polypropylene
- Sealing: Thermal Bond
- Support Material: Polypropylene
- Gaskets/O-rings: EPDM, Viton, Teflon Encapsulated Viton

Dimensions

- Outside Diameter: 5.16" (131mm)
- Length: 10"

Performance Specifications

Retention Ratings

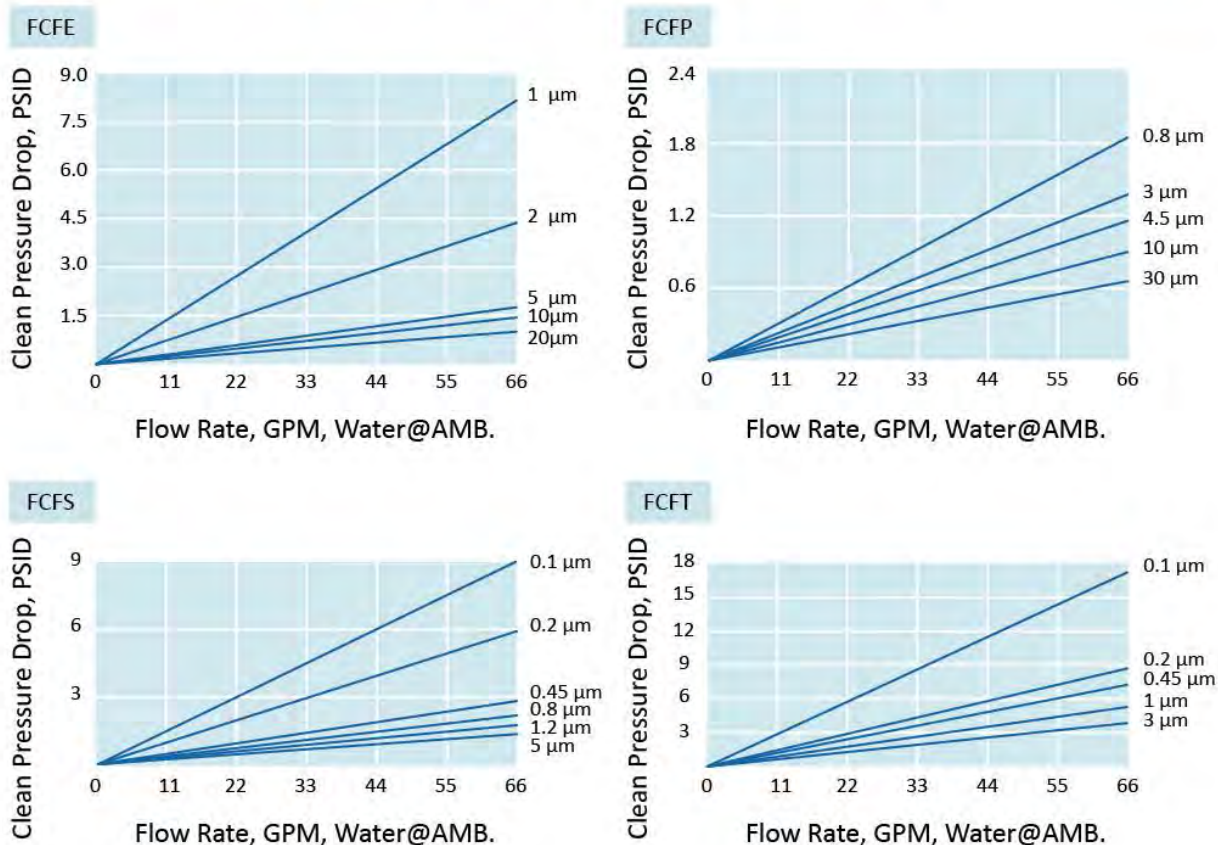
- FCFE: 1, 2, 5, 10, 20 μ m Absolute
- FCFP: 0.8, 3, 4.5, 10, 30 μ m
- FCFS: 0.1, 0.2, 0.45, 0.8, 1.2, 5 μ m Absolute
- FCFT: 0.1, 0.2, 0.45, 1, 3 μ m Absolute

Operating Conditions

- Maximum Operating Temperature: 180°F (82°C)
- Recommended Change Out Differential Pressure: 35 psid (2.4 bar)



Liquid Flow Rate vs. Initial Differential Pressure



Flow rate is per 10" cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoises

Ordering Information

FCFE	5-	10-	334-	E
Product Name	Retention Rating	Cartridge Length	End Configuration	O-ring Material
FCFE (Depth PP)	1, 2, 5, 10, 20 μm	10"	334=Flat Closed End	E=EPDM V=Viton F=Teflon Encapsulated Viton
FCFP (High Flow PP)	0.8, 3, 4.5, 10, 30 μm			
FCFS (PES)	0.1, 0.2, 0.45, 0.8, 1.2, 5 μm			
FCFT (PTFE)	0.1, 0.2, 0.45, 1, 3 μm			

HIE Series Filter Cartridges



Product Introduction

HIE series features advanced Filtrafine pleating technology which enables to maximum the surface area, increases the dirt holding capacity and provides extended service life. HIE series can be applied to wine or beer production as trap filters. In these applications, D.E. filters are commonly used. As far as D.E. fines are concerned, HIE series can trap released D.E. fines and reduce the amount of micro-organisms to make sure the cleanness of downstream piping and equipment. It can also be applied to general water application in food and beverage industry.

- Manufactured under a certified ISO 9001 quality system
- Materials are FDA graded

Product Specifications

Materials of Construction

- Filter Media:
 - HIEP: Proprietary Melt Blown Polypropylene
 - HIEA: High Efficient Melt Blown Polypropylene
 - HIEG: Glass Fiber
- Hardware: Polypropylene
- Sealing: Thermal Bond
- Support Material: Polypropylene
- O-rings: Buna-N, EPDM, Viton, Silicone
- Fixed Flange: Please contact your Filtrafine representative for additional assistance

Dimensions

- Outside Diameter: 6" (152mm)
- Lengths: Size 1 (275mm) - Standard
Size 2 (640mm) - Standard

Performance Specifications

Retention Ratings

- HIEP: 1, 3, 5, 10, 20, 40, 100 μ m
- HIEA: 1, 3, 5, 10, 20 μ m Absolute
- HIEG: 1, 10 μ m Absolute

Operating Conditions

- Maximum Operating Temperature:
 - HIE: 150°F (65°C)
 - HIEG: 220°F (105°C)
- Recommended Change Out Differential Pressure: 21 psid

Purity

All cartridges are free of surfactants, anti-static agents, binders and adhesives.

Toxicity

All polypropylene components meet the specifications for biological safety as per the USP for Class VI-121°C Plastics. (gaskets/ o-rings excluded)

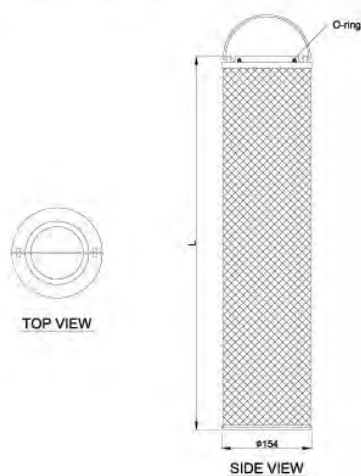


Liquid Flow Rate vs. Initial Differential Pressure

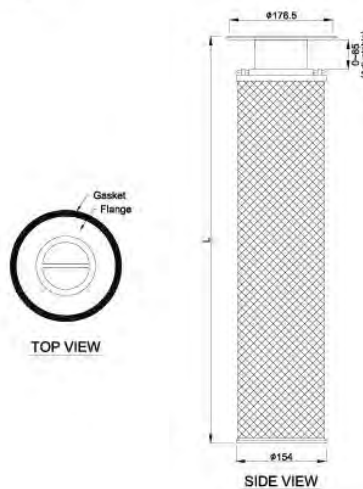
Retention Ratings	HIEP (psid/gpm)/(mbar/lpm)	HIEA (psid/gpm)/(mbar/lpm)	HIEG (psid/gpm)/(mbar/lpm)
1 μm	0.044 / 0.801	0.051 / 0.928	0.016 / 0.291
3 μm	0.018 / 0.328	0.020 / 0.364	N / A
5 μm	0.008 / 0.146	0.012 / 0.218	N / A
10 μm	0.007 / 0.127	0.008 / 0.146	0.003 / 0.055
20 μm	0.003 / 0.055	0.005 / 0.091	N / A
40 μm	0.001 / 0.018	N / A	N / A
100 μm	0.001 / 0.018	N / A	N / A

* Above table is HIEP/ HIEA/ HIEG size 1 filter bag initial pressure drop.

* For size 2 requirement, please contact your Filterfine representative.



HIE	L		O-ring
	Size 1	Size 2	
	275mm	640mm	Optional



HIE	L		Flange 304SS / 316SS / PP	Gasket
	Size 1	Size 2		
	280~345mm	645~710mm	Optional	Optional

Ordering Information

HIEP	5-	1-	PP	E
Product Name	Retention Rating	Cartridge Size	Fixed Flange Option	O-ring Material
HIEP (PP)	1, 3, 5, 10, 20, 40, 100 μm	1=01 2=02	No Symbol=None Fixed Flange PP=Polypropylene SS=Stainless Steel	E=EPDM V=Viton S=Silicone
HIEA (Absolute PP)	1, 3, 5, 10, 20 μm			
HIEG (Glass Fiber)	1, 10 μm			

Mega-Flow Series Filter Cartridges



Product Introduction

Filtrafine Mega-Flow series has large surface area for high flow filtration. It is ideally suitable for most LCD and TFT wet processing applications and filtration of high purity water. The polypropylene hardware construction of Mega-Flow series can be applied to many process fluids to ensure wide chemical compatibility. The compact cartridge design of Mega-Flow series offers long on-stream life to reduce equipment down-time and maintenance costs. Besides, it is compatible with Filtrafine TFT series housing.

- Manufactured in a class 1,000 clean room
- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Filter Media: MEP: High Flow Melt Blown Polypropylene
MES: Highly Asymmetric PES Membrane
MEF: Expanded Polytetrafluoro-ethylene (ePTFE) Membrane
- Hardware: High Purity Polypropylene
- Sealing: Thermal Bond
- Support Material: Polypropylene
- Gaskets/O-rings: Silicone, Buna-N, EPDM, Viton, Teflon Encapsulated Viton

Dimensions

- Outside Diameter: 3.2" (83mm)
- Length: 10"

Performance Specifications

Retention Ratings

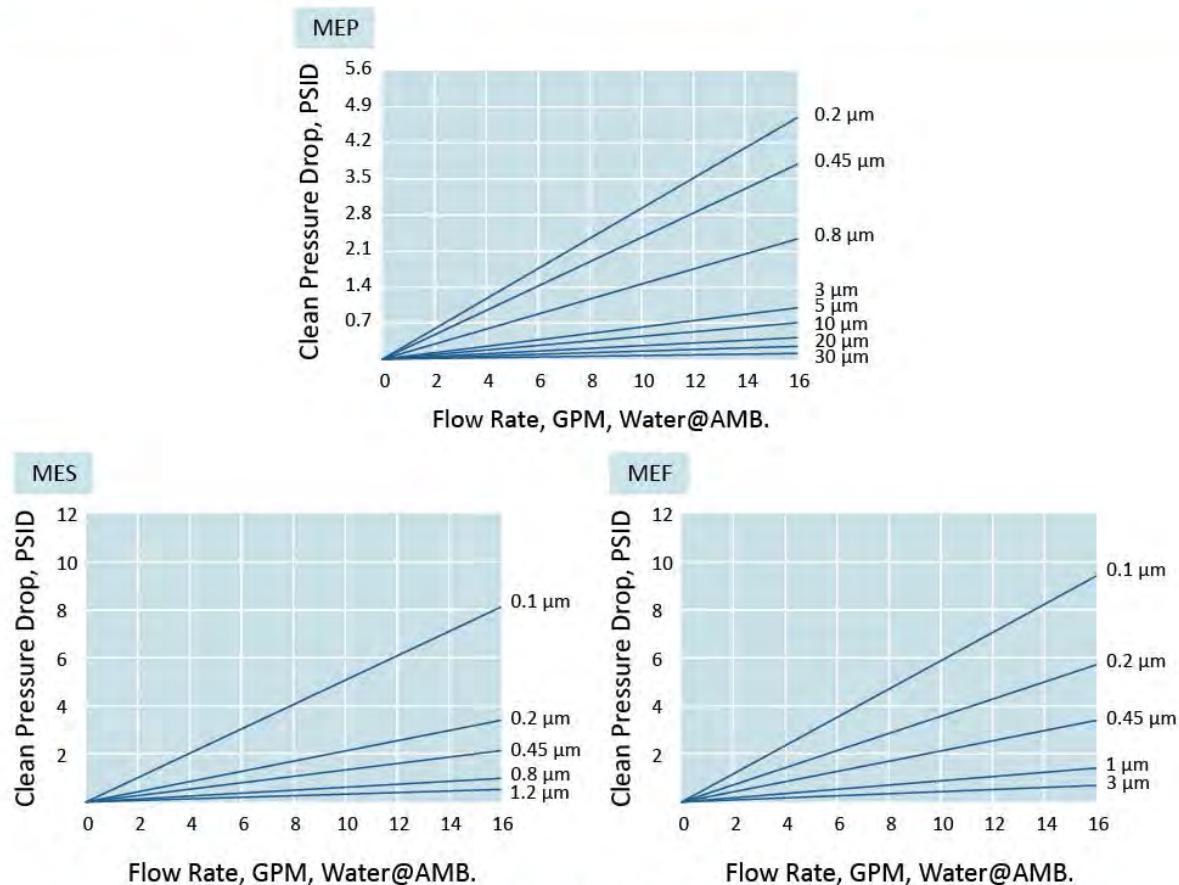
- MEP: 0.2, 0.45, 0.8, 3, 5, 10, 20, 30 μm
- MES: 0.1, 0.2, 0.45, 0.8, 1.2 μm
- MEF: 0.1, 0.2, 0.45, 1, 3 μm

Operating Conditions

- Maximum Operating Temperature: 180°F (82°C)
- Recommended Change Out Differential Pressure: 35 psid (2.4 bar)



Liquid Flow Rate vs. Initial Differential Pressure



Flow rate is per 10" cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoises

Ordering Information

MEP	5-	10-	3	E
Product Name	Retention Rating	Cartridge Length	End Configuration	O-ring Material
MEP (PP)	0.2, 0.45, 0.8, 3, 5, 10, 20, 30 µm	10"	Code 3=222 / Flat	E=EPDM
MES (PES)	0.1, 0.2, 0.45, 0.8, 1.2 µm		Code 6= 226 / Flat	V=Viton
MEF (PTFE)	0.1, 0.2, 0.45, 1, 3 µm			F=Teflon Encapsulated Viton

Metal-Flow Series Filter Cartridges



Product Introduction

Metal-Flow series filter cartridges is made of sintered stainless steel fiber or sintered fiber mesh filter media and available in 304 stainless steel and 316 stainless steel which are cleanable in a variety of applications. The construction of Metal-Flow series is all welded and robust. Besides, it is available with single open end configurations which provide greater sealing integrity. The pleated type of Metal-Flow series has high surface filtration area that can handle higher flow rate for additional on-stream life.

- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Filter Media: 304 or 316 Sintered Stainless Steel Fiber or Sintered Wire Mesh
- Hardware: 304 or 316 Stainless Steel
- End Caps: 304 or 316 Stainless Steel
- Sealing: Tig Welded
- Support Material: Stainless Steel Sintered Mesh
- Gaskets/O-rings: Silicone, EPDM, Viton, Teflon Encapsulated Viton

Dimensions

- Outside Diameter: 2.7" (68mm)
- Lengths: 10", 20", 30", 40"

Performance Specifications

Retention Ratings

1, 5, 10, 20, 50, 75, 100 μm

Operating Conditions

- Maximum Forward Differential Pressure: 145 psid (10 bar)
- Maximum Reverse Differential Pressure: 29 psid (2 bar)
- Maximum Continuous Operating Temperature: 392°F (200°C)
Please check gasket temperature compatibility



Ordering Information

SSP	5-	10	S-	3	E
Product Name	Retention Rating	Cartridge Length	Material	End Configuration	O-ring Material
SSD (Depth Type)	1, 5, 10, 20, 50, 75, 100 µm	10" 20" 30" 40"	A=304SS S=316SS	DOE=Double Open End Code 3=222 / Flat	E=EPDM V=Viton S=Silicone F=Teflon Encapsulated Viton
SSP (Pleated Type)					

Micro-Flow G Series Filter Cartridges



Product Introduction

Micro-Flow G series filter cartridges are made of patented highly asymmetric PES membrane to deliver a combination of high flow rate and high dirt holding capacity. The polypropylene hardware construction of Micro-Flow G series filter can be applied to many process fluids to ensure wide chemical compatibility. In addition, there are various materials of gasket/ o-ring available to be compatible with numerous kinds of fluids.

- Manufactured in a class 1,000 clean room
- Manufactured under a certified ISO 9001 quality system
- Pre-flushed with 18 megohm-cm DI water
- Integrity Tested: bubble point test, diffusion flow test

Product Specifications

Materials of Construction

- Filter Media: Highly Asymmetric Polyethersulfone Membrane
- Hardware: Polypropylene
- Sealing: Thermal Bond
- Support Material: Polypropylene
- Gaskets/O-rings: Silicone, Buna-N, EPDM, Viton, Teflon Encapsulated Viton

Dimensions

- Outside Diameter: 2.67" (68mm)
- Lengths: 10", 20", 30", 40"

Performance Specifications

Retention Ratings

0.01, 0.02 μ m Absolute

Operating Conditions

- Maximum Operating Differential Pressure:
75 psid (5.1 bar) @ 68°F (20°C)
40 psid (2.8 bar) @ 150°F (65°C)
- Maximum Operating Temperature: 180°F (82°C)
- Recommended Change Out Differential Pressure:
35 psid (2.4 bar)



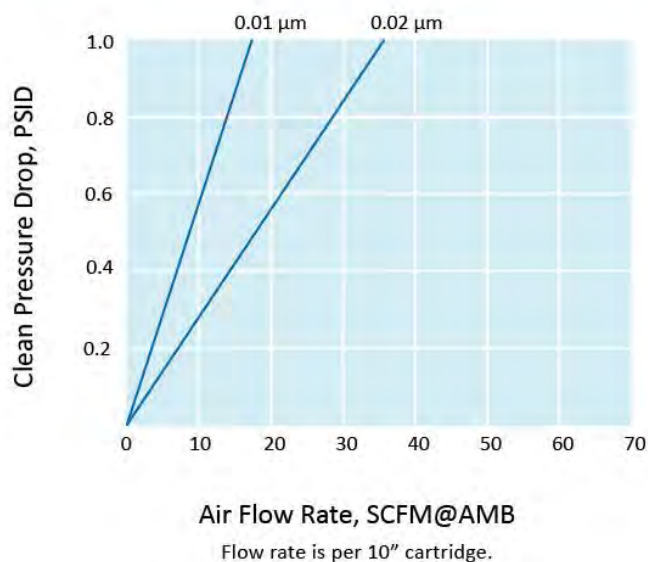
FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Sanitizing Agents

Cartridge may be sanitized in place with common oxidizing agents. Consult factory for compatibility information.

Dry Air Flow Rate vs. Initial Differential Pressure



Ordering Information

MFNG	020-	10-	3	E
Product Name	Retention Rating	Cartridge Length	End Configuration	Gasket/O-ring Material
MFNG	010=0.01 µm	10"	DOE=Double Open End	E=EPDM
	020=0.02 µm	20"	Code 3=222 / Flat	V=Viton
	(for dry air)	30"	Code 8=222 / Fin	S=Silicone
		40"	Code 7=226 / Fin, Bayonet	F=Teflon Encapsulated Viton

Micro-Flow Series Filter Cartridges



Product Introduction

Micro-Flow series filter cartridges utilize proprietary highly asymmetric polyethersulfone membrane to deliver a combination of high flow rate and high dirt holding capacity. The polypropylene hardware construction of Micro-Flow series filter can be applied to many process fluids to ensure wide chemical compatibility. In addition, there are various materials of gaskets/ o-rings available to be compatible with numerous kinds of fluids. Especially, Micro-Flow series filters are 100% pre-flushed with 18 megohm-cm DI water and integrity tested. Each element is stamped with pore size, lot and serial number for identification and traceability.

- Manufactured in a class 1,000 clean room
- Manufactured under a certified ISO 9001 quality system
- Pre-flushed with 18 megohm-cm DI water diffusion flow test
- Integrity Tested: bubble point test, diffusion flow test

Product Specifications

Materials of Construction

- Filter Media: Highly Asymmetric Polyethersulfone Membrane
- Hardware: Polypropylene
- Sealing: Thermal Bond
- Support Material: Polypropylene
- Gaskets/O-rings: Silicone, Buna-N, EPDM, Viton, Teflon Encapsulated Viton

Dimensions

- Outside Diameter: 2.67" (68mm)
- Lengths: 4", 10", 20", 30", 40"

Performance Specifications

Retention Ratings

0.04, 0.1, 0.2, 0.45, 0.65, 0.8, 1.2 μ m Absolute

Operating Conditions

- Maximum Operating Differential Pressure:
75 psid (5.1 bar) @ 68°F (20°C)
40 psid (2.8 bar) @ 150°F (65°C)
- Maximum Operating Temperature: 180°F (82°C)
- Recommended Change Out Differential Pressure:
35 psid (2.4 bar)



FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Sanitizing Agents

Cartridge may be sanitized in place with common oxidizing agents. Consult factory for compatibility information.

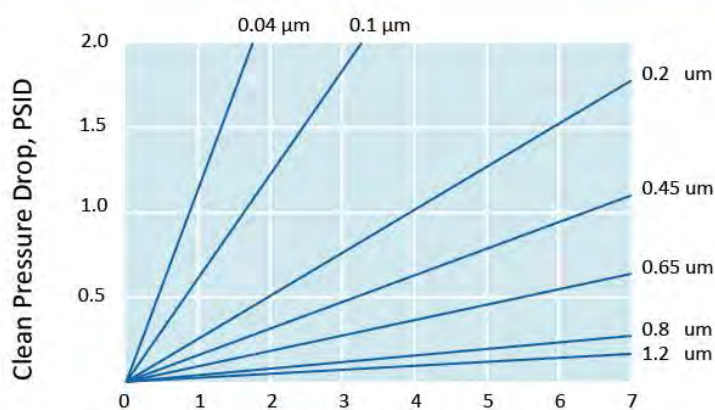
Rinse-Up

Cartridges will be rinsed-up to 18 megohm-cm with a minimum of throughput.

Sterilization

Multiple autoclaving for 30 minutes at 250°F (121°C) under no end load conditions. In-line steam sterilization is not recommended. May be in-line sanitized with hot water at 180°F (82°C) for 1 hour.

Liquid Flow Rate vs. Initial Differential Pressure



Flow Rate, GPM, Water@AMB.

Flow rate is per 10" cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoises

Ordering Information

MFN	0.2-	10-	3	E
Product Name	Retention Rating	Cartridge Length	End Configuration	Gasket/O-ring Material
MFN	0.04, 0.1,	10"	DOE=Double Open End	E=EPDM
	0.2, 0.45,	20"	Code 3=222 / Flat	V=Viton
	0.65, 0.8,	30"	Code 8=222 / Fin	S=Silicone
	1.2 µm	40"	Code 7=226 / Fin, Bayonet	F=Teflon Encapsulated Viton

MicroGlass-Flow GP Series Filter Cartridges



Product Introduction

MicroGlass-Flow GP series filter cartridges utilize glass fiber media with rigid polypropylene center core and outer cage. The glass fiber media ensures high purity filtration and the polypropylene hardware endures high temperature. The fixed pore construction of media can resist dirt unloading at maximum differential pressure drop. Besides, MicroGlass-Flow GP series filters have large surface area which provides high dirt holding capacity and long on-stream life.

- Manufactured in a class 10,000 clean room
- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Filter Media: Glass Fiber
- Support Material: Polyester
- Hardware: Polypropylene
- Sealing: Thermal Bond
- Gaskets/O-rings: Silicone, Buna-N, EPDM, Viton, Teflon Encapsulated Viton

Dimensions

- Outside Diameter: 2.67" (68mm)
- Lengths: 10", 20", 30", 40"

Performance Specifications

Retention Ratings

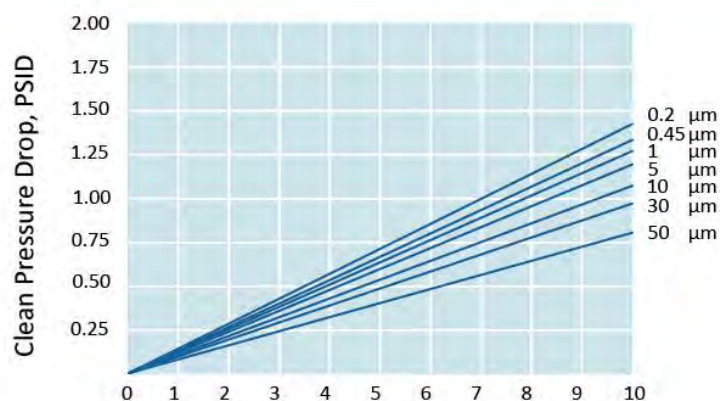
0.2, 0.45, 1, 5, 10, 30, 50 μ m Absolute

Operating Conditions

- Maximum Operating Differential Pressure:
75 psid (5.1 bar) @ 68°F (20°C)
40 psid (2.8 bar) @ 150°F (65°C)
- Maximum Operating Temperature: 220°F (105°C)
- Recommended Change Out Differential Pressure:
35 psid (2.4 bar)



Liquid Flow Rate vs. Initial Differential Pressure



Flow Rate, GPM, Water@AMB.

Flow rate is per 10" cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoises

Ordering Information

MFGP	5-	10-	3	E
Product Name	Retention Rating	Cartridge Length	End Configuration	Gasket/O-ring Material
MFGP	0.2, 0.45, 1, 5, 10, 30, 50 µm	10" 20" 30" 40"	DOE=Double Open End Code 3=222 / Flat Code 8=222 / Fin Code 7=226 / Fin, Bayonet	N=Buna-N E=EPDM V=Viton S=Silicone F=Teflon Encapsulated Viton

MicroGlass-Flow Series Filter Cartridges



Product Introduction

MFGN series filter cartridges utilize glass fiber media with rigid polypropylene center core and color netting. Glass fiber media ensures high purity filtration and the polypropylene hardware endures high temperature. The fixed pore construction of media can resist dirt unloading at maximum differential pressure drop. Besides, MFGN series filters have large surface area which provides high dirt holding capacity and long on-stream life. The micron rating can be easily recognized by netting in different colors, which provides users quick determination.

- Manufactured in a class 10,000 clean room
- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Filter Media: Glass Fiber
- Support Material: Polyester
- Netting: Polypropylene
- Sealing: Thermal Bond
- Gaskets/O-rings: Silicone, Buna-N, EPDM, Viton, Teflon Encapsulated Viton

Dimensions

- Outside Diameter: 2.67" (68mm)
- Lengths: 10", 20", 30", 40"

Performance Specifications

Retention Ratings

2, 5, 10 μ m Absolute

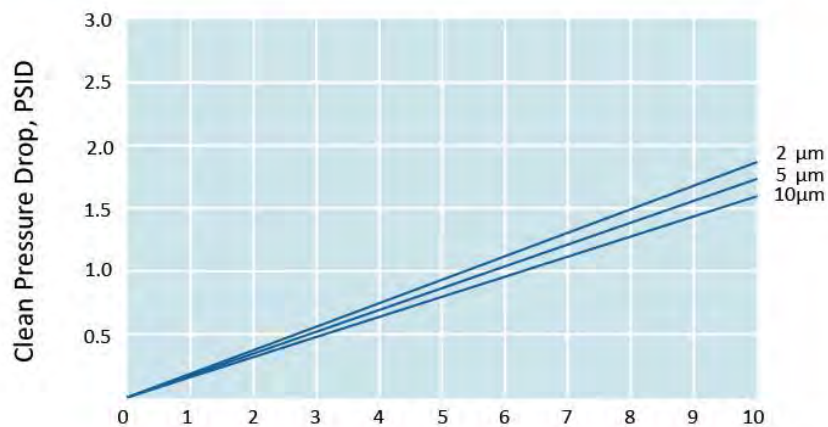
	Netting Color	Absolute Rating
●	Yellow	2 μ m
○	White	5 μ m
●	blue	10 μ m

Operating Conditions

- Maximum Operating Differential Pressure:
75 psid (5.1 bar) @ 68°F (20°C)
40 psid (2.8 bar) @ 150°F (65°C)
- Maximum Operating Temperature: 220°F (105°C)
- Recommended Change Out Differential Pressure:
35 psid (2.4 bar)



Liquid Flow Rate vs. Initial Differential Pressure



Flow Rate, GPM, Water@AMB.

Flow rate is per 10" cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoises

Ordering Information

MFGN	5-	10-	3	E
Product Name	Retention Rating	Cartridge Length	End Configuration	Gasket/O-ring Material
MFGN	2, 5, 10 µm	10" 20" 30" 40"	DOE=Double Open End Code 3=222 / Flat Code 8=222 / Fin Code 7=226 / Fin, Bayonet	N=Buna-N E=EPDM V=Viton S=Silicone F=Teflon Encapsulated Viton

Pleated-Flow C Series Filter Cartridges



Product Introduction

Each Pleated-Flow C series filter cartridge is produced with a continuous rigid center core which enhances structural strength of cartridge. The cartridges are all polypropylene construction which provides wide chemical compatibility. Pleated-Flow C series filters utilize proprietary filter media with fixed pore construction to deliver highly consistent performance and resist dirt unloading at maximum differential pressure. Besides, Pleated-Flow C series filters have high surface area which provides long service life to reduce maintenance costs.

- Manufactured in a class 10,000 clean room
- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Filter Media: Polypropylene
- Hardware: Polypropylene
- Sealing: Thermal Bond
- Support Material: Polypropylene
- Gaskets/O-rings: Silicone, Buna-N, EPDM, Viton, Teflon Encapsulated Viton

Dimensions

- Outside Diameter: 2.67" (68mm)
- Lengths: 10", 20", 30", 40"

Performance Specifications

Retention Ratings

0.2, 0.45, 0.8, 2, 3, 5, 10, 20, 30, 40, 70 μ m

Operating Conditions

- Maximum Operating Differential Pressure:
75 psid (5.1 bar) @ 68°F (20°C)
40 psid (2.8 bar) @ 150°F (65°C)
- Maximum Operating Temperature: 167°F (75°C)
- Recommended Change Out Differential Pressure:
35 psid (2.4 bar)

FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Purity

All Pleated-Flow C series filter cartridges are free of surfactants, anti-static agents, binders and adhesives.



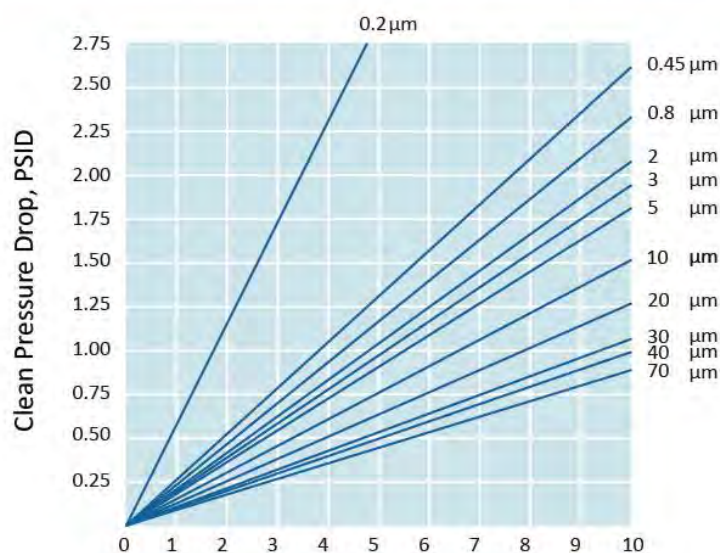
Toxicity

All components meet the specifications for biological safety as per the USP for Class VI-120°C Plastics (gaskets/ o-rings excluded)

Sterilization

Multiple autoclaving for 30 minutes at 250°F (121°C) under no end load conditions. In-line steam sterilization is not recommended. May be in-line sanitized with hot water at 180°F (82°C) for 1 hour.

Liquid Flow Rate vs. Initial Differential Pressure



Flow Rate, GPM, Water@AMB.

Flow rate is per 10" cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoises

Ordering Information

PLTC	5-	10-	3	E
Product Name	Retention Rating	Cartridge Length	End Configuration	Gasket/O-ring Material
PLTC	0.2, 0.45, 0.8, 2, 3, 5, 10, 20, 30, 40, 70 µm	10" 20" 30" 40"	DOE=Double Open End Code 3=222 / Flat Code 8=222 / Fin Code 7=226 / Fin, Bayonet	N=Buna-N E=EPDM V=Viton S=Silicone F=Teflon Encapsulated Viton

Pleated-Flow CA Series Filter Cartridges



Product Introduction

Each Pleated-Flow CA series filter cartridge is produced with a continuous rigid center core which enhances structural strength of cartridge. The cartridges are all polypropylene construction which provides wide chemical compatibility. Pleated-Flow CA series filters utilize proprietary filter media with fixed pore construction to deliver highly consistent performance and resist dirt unloading at maximum differential pressure. Besides, Pleated-Flow CA series filters have high surface area which provides long service life to reduce maintenance costs.

- Manufactured in a class 10,000 clean room
- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Filter Media: Polypropylene
- Hardware: Polypropylene
- Sealing: Thermal Bond
- Support Material: Polypropylene
- Gaskets/O-rings: Silicone, Buna-N, EPDM, Viton, Teflon Encapsulated Viton

Dimensions

- Outside Diameter: 2.67" (68mm)
- Lengths: 10", 20", 30", 40"

Performance Specifications

Retention Ratings

0.5, 1, 2, 3, 5, 7, 12, 25, 30, 40, 70 μ m Absolute

Operating Conditions

- Maximum Operating Differential Pressure:
75 psid (5.1 bar) @ 68°F (20°C)
40 psid (2.8 bar) @ 150°F (65°C)
- Maximum Operating Temperature: 167°F (75°C)
- Recommended Change Out Differential Pressure:
35 psid (2.4 bar)

FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Purity

All Pleated-Flow CA series filter cartridges are free of surfactants, anti-static agents, binders and adhesives.



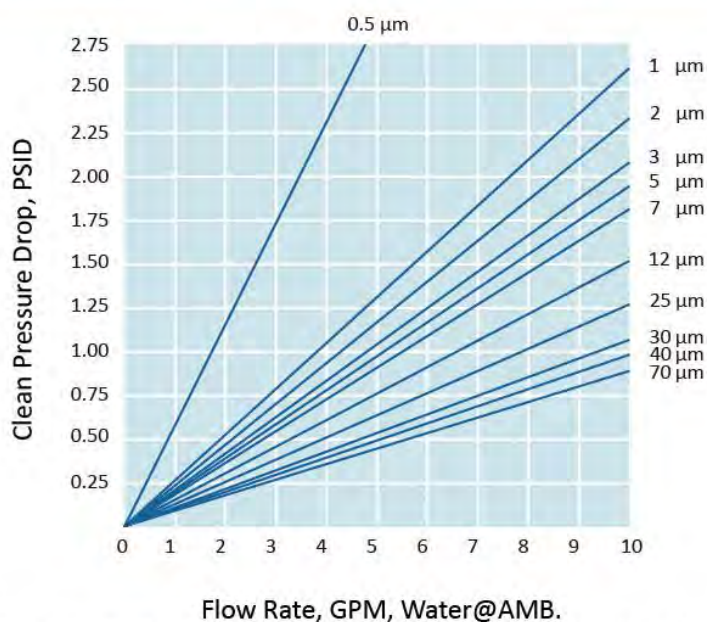
Toxicity

All components meet the specifications for biological safety as per the USP for Class VI-120°C Plastics (gaskets/ o-rings excluded)

Sterilization

Multiple autoclaving for 30 minutes at 250°F (121°C) under no end load conditions. In-line steam sterilization is not recommended. May be in-line sanitized with hot water at 180°F (82°C) for 1 hour.

Liquid Flow Rate vs. Initial Differential Pressure



Flow rate is per 10" cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoises

Ordering Information

PLTCA	5-	10-	3	E
Product Name	Retention Rating	Cartridge Length	End Configuration	Gasket/O-ring Material
PLTCA	0.5, 1, 2, 3, 5, 7, 12, 25, 30, 40, 70 µm	10" 20" 30" 40"	DOE=Double Open End Code 3=222 / Flat Code 8=222 / Fin Code 7=226 / Fin, Bayonet	N=Buna-N E=EPDM V=Viton S=Silicone F=Teflon Encapsulated Viton

Pleated-Flow Series Filter Cartridges



Product Introduction

Each Pleated-Flow series filter cartridge is produced with a rigid center core which enhances structural strength of cartridge. The cartridges are all polypropylene construction which provides wide chemical compatibility. Pleated-Flow series filters utilize proprietary filter media with fixed pore construction to deliver highly consistent performance and resist dirt unloading at maximum differential pressure. Besides, Pleated-Flow series filters have high surface area which provides long service life to reduce maintenance costs.

- Manufactured in a class 10,000 clean room
- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Filter Media: Polypropylene
- Hardware: Polypropylene
- Sealing: Thermal Bond
- Support Material: Polypropylene
- Gaskets/O-rings: Silicone, Buna-N, EPDM, Viton, Teflon Encapsulated Viton

Dimensions

- Outside Diameter: 2.67" (68mm)
- Lengths: 10", 20", 30", 40"

Performance Specifications

Retention Ratings

0.2, 0.25, 0.45, 0.8, 2, 3, 5, 10, 30, 100 μ m

Operating Conditions

- Maximum Operating Differential Pressure:
75 psid (5.1 bar) @ 68°F (20°C)
40 psid (2.8 bar) @ 150°F (65°C)
- Maximum Operating Temperature: 167°F (75°C)
- Recommended Change Out Differential Pressure:
35 psid (2.4 bar)

FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Purity

All Pleated-Flow series filter cartridges are free of surfactants, anti-static agents, binders and adhesives.



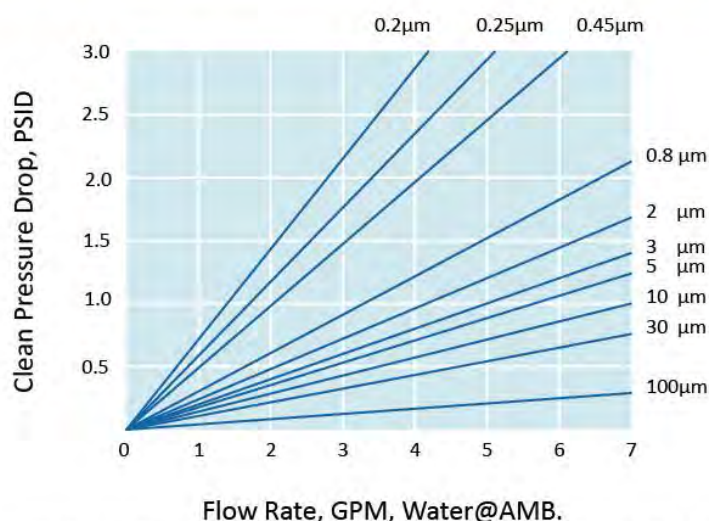
Toxicity

All components meet the specifications for biological safety as per the USP for Class VI-120°C Plastics (gaskets/ o-rings excluded)

Sterilization

Multiple autoclaving for 30 minutes at 250°F (121°C) under no end load conditions. In-line steam sterilization is not recommended. May be in-line sanitized with hot water at 180°F (82°C) for 1 hour.

Liquid Flow Rate vs. Initial Differential Pressure



Flow rate is per 10" cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoises

Ordering Information

PLT	5-	10-	3	E
Product Name	Retention Rating	Cartridge Length	End Configuration	Gasket/O-ring Material
PLT	0.2, 0.25, 0.45, 0.8, 2, 3, 5, 10, 30, 100 µm	10" 20" 30" 40"	DOE=Double Open End Code 3=222 / Flat Code 8=222 / Fin Code 7=226 / Fin, Bayonet	N=Buna-N E=EPDM V=Viton S=Silicone F=Teflon Encapsulated Viton

POLY-ADCT A Product introduction



Product Introduction



POLY-ADCT A series is developed with graded pore structure, which provides high dirt holding capacity and filtration efficiency. It has an excellent advantage of non-fiber releasing, which indeed delivers superior performance. This series is commonly used in food and beverage industry such as brewery and winery. In these applications, diatomaceous earth (D.E.) is commonly used. This series reduces extraneous D.E. fines that randomly pass from the D.E. filter during normal filter operation. It prevents downstream equipment and piping from D.E. fines contamination. POLY-ADCT A can be also applied to general water application in wine and beer production process.

- Absolute rated at 99% efficiency with retention
- Manufactured under a certified ISO 9001 quality system
- NSF certified

Product Specifications

Materials of Construction

- Filter Media: Advanced Melt Blown Polypropylene
- Center Core: Polypropylene
- End Caps: Polypropylene
- Gaskets/O-rings: PE Gaskets, Silicone, Buna-N, EPDM, Viton

Dimensions

- Outside Diameter: 2.5" (63mm)
- Inside Diameter: 1.1" (28mm)
- Lengths: 10", 20", 30", 40"

Performance Specifications

Retention Ratings

0.5, 1, 3, 5, 10, 20, 30, 50, 75 µm Absolute

Operating Conditions

- Maximum Operating Temperature: 167°F (75°C)
- Recommended Change Out Differential Pressure: 35 psid (2.4 bar)



FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

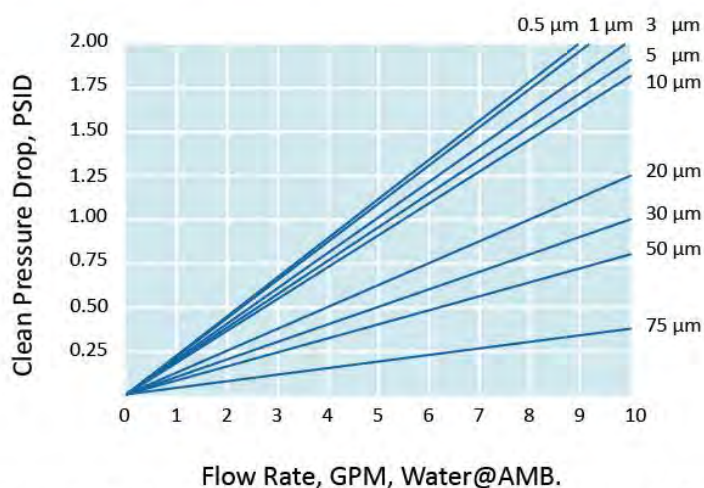
Toxicity

All cartridge components meet USP-XXIII, Class V Criteria.

Purity

All POLY-ADCT A series filter cartridges are free of surfactants, anti-static agents, binders and adhesives.

Liquid Flow Rate vs. Initial Differential Pressure



Flow rate is per 10" cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoises

Ordering Information

PATA	5-	30	P-	7	S
Product Name	Retention Rating	Length	Core Material	End Configuration	Gasket/O-ring Material
PATA	0.5, 1, 3, 5, 10, 20, 30, 50, 75 µm	10" 20" 30" 40"	P=PP	PE=PE Gaskets No Symbol=DOE Code 3=222 / Flat Code 8=222 / Fin Code 7=226 / Fin, Bayonet	N=Buna-N E=EPDM V=Viton S=Silicone

POLY-ADCT Series Filter Cartridges



Product Introduction

POLY-ADCT series is developed with graded pore structure, which provides high dirt holding capacity and filtration efficiency. It has an excellent advantage of non-fiber releasing, which indeed delivers superior performance. In addition, each POLY-ADCT series cartridge has a polypropylene center core which enhances mechanical strength to the cartridge. This series is commonly used in food and beverage industry.

- Materials are FDA graded
- Manufactured under a certified ISO 9001 quality system
- NSF certified

Product Specifications

Materials of Construction

- Filter Media: Advanced Melt Blown Polypropylene
- Center Core: Polypropylene
- End Caps: Polypropylene
- Gaskets/O-rings: PE Gaskets, Silicone, Buna-N, EPDM, Viton

Dimensions

- Outside Diameter: 2.5" (63mm)
- Inside Diameter: 1.1" (28mm)
- Lengths: 10", 20", 30", 40", 50"

Performance Specifications

Retention Ratings

0.5, 1, 3, 5, 10, 20, 30, 50, 75, 100 μ m

Operating Conditions

- Maximum Operating Temperature: 167°F (75°C)
- Recommended Change Out Differential Pressure: 35 psid (2.4 bar)

FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Purity

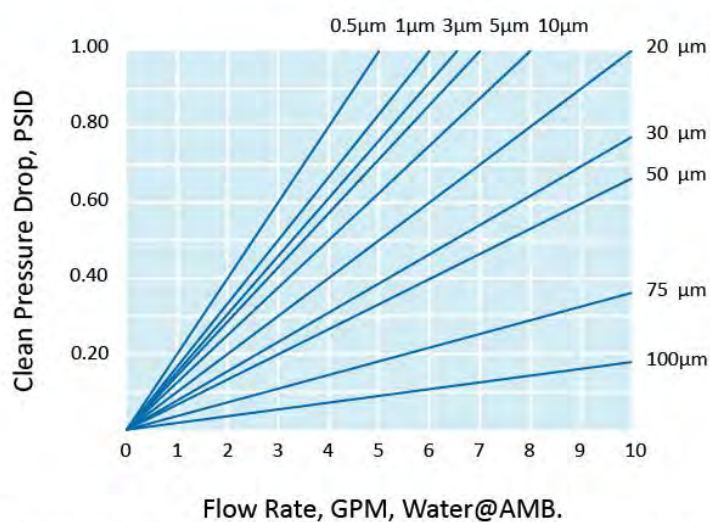
All POLY-ADCT series filter cartridges are free of surfactants, anti-static agents, binders and adhesives.



Toxicity

All cartridge components meet USP-XXIII, Class V Criteria.

Liquid Flow Rate vs. Initial Differential Pressure



Flow rate is per 10" cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoises

Ordering Information

PAT	5-	20	P-	3	E
Product Name	Retention Rating	Cartridge Length	Core Material	End Configuration	Gasket/O-ring Material
PAT	0.5, 1, 3, 5, 10, 20, 30, 50, 75, 100 µm	10" 20" 30" 40" 50"	P=PP	PE=PE Gaskets No Symbol=DOE Code 3=222 / Flat Code 8=222 / Fin Code 7=226 / Fin, Bayonet	N=Buna-N E=EPDM V=Viton S=Silicone

Puris-Fine BB Series Filter Cartridges



Product Introduction

Puris-Fine BB series filter cartridges are 100% made of high purity polypropylene resin which is ideal for general particle reduction applications. It's easy and safe to incinerate or dispose used cartridges. The cartridges are manufactured by high-tech melt-blowing machines results in a consistent quality and graded pore structure. Its graded pore structure enhances dirt holding capacity and filtration efficiency. In addition, Puris-Fine BB series filter cartridges are free of surfactants, binders and adhesives. It has an excellent advantage of non-fiber releasing, which indeed delivers superior performance.

- Materials are FDA graded
- Special outside diameter for big blue size housing
- Manufactured under a certified ISO 9001 quality system
- NSF certified

Product Specifications

Materials of Construction

Filter Media: Melt Blown Polypropylene

Dimensions

- Outside Diameter: 4.3" (110mm)
- Inside Diameter: 1.1" (28mm)
- Lengths: 10", 20"

Performance Specifications

Retention Ratings

0.5, 1, 3, 5, 10, 20 μ m

Operating Conditions

- Maximum Operating Differential Pressure:
50 psid (3.45 bar) @ ambient
25 psid (1.72 bar) @ 140°F (60°C)
- Maximum Operating Temperature: 140°F (60°C)
- Recommended Change Out Differential Pressure:
35 psid (2.4 bar)



FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Purity

All Puris-Fine BB filter series cartridges are free of surfactants, anti-static agents, binders and adhesives.

Toxicity

All cartridge components meet USP-XXIII, Class V Criteria.



Ordering Information

PRS	5-	10-	BB
Product Name	Retention Rating	Cartridge Length	End Configuration
PRS	0.5, 1, 3, 5, 10, 20 µm	10" 20"	BB=for Big Blue Size Housing

Puris-Fine Series Filter Cartridges



Product Introduction

Puris-Fine series filter cartridges are 100% made of high purity polypropylene resin, which is ideal for general particle reduction applications. It's easy and safe to incinerate or dispose used cartridges. The cartridges are manufactured by a high-tech melt-blowing machine results in a consistent quality and graded pore structure. Its graded pore structure enhances dirt holding capacity and filtration efficiency. In addition, Puris-Fine series filter cartridges are free of surfactants, binders and adhesives. It has an excellent advantage of non-fiber releasing, which indeed delivers superior performance.

- Materials are FDA graded
- Manufactured under a certified ISO 9001 quality system
- NSF certified

Product Specifications

Materials of Construction

- Filter Media: Melt Blown Polypropylene
- End Caps: Polypropylene
- Gaskets/O-rings: PE Gaskets, Silicone, Buna-N, EPDM, Viton

Dimensions

- Outside Diameter: 2.5" (63mm)
- Inside Diameter: 1.1" (28mm)
- Lengths: 10", 20", 30", 40", 50"

Performance Specifications

Retention Ratings

0.5, 1, 3, 5, 10, 20, 30, 50, 75, 100 µm

Operating Conditions

- Maximum Operating Differential Pressure:
50 psid (3.45 bar) @ ambient
25 psid (1.72 bar) @ 140°F (60°C)
- Maximum Operating Temperature: 140°F (60°C)
- Recommended Change Out Differential Pressure:
35 psid (2.4 bar)



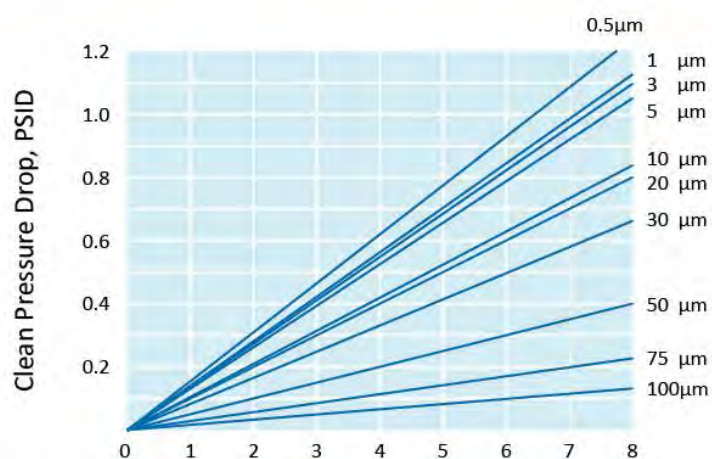
FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Purity

All Puris-Fine series filter cartridges are free of surfactants, anti-static agents, binders and adhesives.

Liquid Flow Rate vs. Initial Differential Pressure



Flow Rate, GPM, Water@AMB.

Flow rate is per 10" cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoises

Ordering Information

PRS	5-	20-	3	E
Product Name	Retention Rating	Cartridge Length	End Configuration	Gasket/O-ring Material
PRS	0.5, 1, 3, 5, 10, 20, 30, 50, 75, 100 µm	10" 20" 30" 40" 50"	PE=PE Gaskets No Symbol=DOE Code 3=222 / Flat Code 8=222 / Fin Code 7=226 / Fin, Bayonet	N=Buna-N E=EPDM V=Viton S=Silicone

Superior-Fine Series Filter Cartridges



Product Introduction

Superior-Fine series filter cartridges deliver high dirt holding capacity and consistent performance. Its rigid filtration structure is provided by the proprietary inter-zone bonding process. Superior-Fine series filter cartridges are made of high purity polypropylene materials which allow optimization of the filtration media for long service life and high efficiency. In addition, this series is free of surfactants, binders and adhesives. Therefore, it is easy and safe to incinerate or dispose used elements.

- Materials are FDA graded
- Manufactured under a certified ISO 9001 quality system
- NSF certified

Product Specifications

Materials of Construction

- Filter Media: Advanced Melt Blown Polypropylene
- End Caps: Polypropylene
- Gaskets/O-rings: PE Gaskets, Silicone, Buna-N, EPDM, Viton

Dimensions

- Outside Diameter: 2.5" (63mm)
- Inside Diameter: 1.1" (28mm)
- Lengths: 10", 20", 30", 40", 50"

Performance Specifications

Retention Ratings

0.5, 1, 3, 5, 10, 20, 30, 50, 75, 100 μ m

Operating Conditions

- Maximum Operating Temperature: 140°F (60°C)
- Recommended Change Out Differential Pressure: 35 psid (2.4 bar)

FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Purity

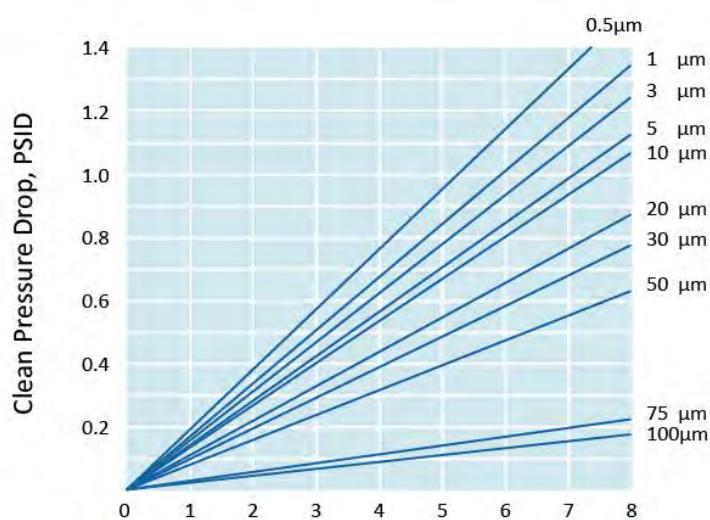
All Superior-Fine series filter cartridges are free of surfactants, anti-static agents, binders and adhesives.



Toxicity

All cartridge components meet USP-XXIII, Class V Criteria.

Liquid Flow Rate vs. Initial Differential Pressure



Flow Rate, GPM, Water@AMB.

Flow rate is per 10" cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoises

Ordering Information

PCB	5-	20	P-	3	E
Product Name	Retention Rating	Cartridge Length	Core Material	End Configuration	Gasket/O-ring Material
PCB	0.5, 1, 3, 5, 10, 20, 30, 50, 75, 100 µm	10" 20" 30" 40" 50"	None Core	PE=PE Gaskets No Symbol=DOE Code 3=222 / Flat Code 8=222 / Fin Code 7=226 / Fin, Bayonet	N=Buna-N E=EPDM V=Viton S=Silicone

Tech-Flow Series Filter Cartridges



Product Introduction

Tech-Flow series filter cartridges are made of biologically inert and chemical resistant hydrophobic and hydrophilic PTFE media. The media is uniform pore size throughout membrane for high contaminant capacity and flow rates. Each Tech-Flow series filter element is stamped with pore size and lot number for identification and traceability. To provide wide chemical compatibility, Tech-Flow series utilizes high purity polypropylene hardware construction which is inert to various kinds of process.

- Absolute rated at 99.9% efficiency with retention
- Manufactured in a class 1,000 clean room
- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Filter Media: Expanded Polytetrafluoro-ethylene (ePTFE) Membrane
- Hardware: Polypropylene
- Sealing: Thermal Bond
- Support Material: Polypropylene
- Gaskets/O-rings: Silicone, Buna-N, EPDM, Viton, Teflon Encapsulated Viton

Dimensions

- Outside Diameter: 2.67" (68mm)
- Lengths: 10", 20", 30", 40"

Performance Specifications

Retention Ratings

0.05, 0.1, 0.2, 0.45, 1, 3 μ m Absolute

Operating Conditions

- Maximum Operating Differential Pressure:
80 psid (5.5 bar) @ 68°F (20°C)
20 psid (1.4 bar) @ 203°F (95°C)
- Maximum Operating Temperature: 220°F (105°C)
- Recommended Change Out Differential Pressure:
35 psid (2.4 bar)

FDA Listed Materials

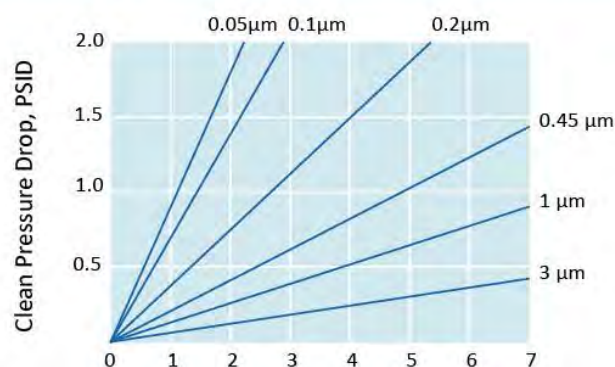
Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Sanitizing Agents

Cartridge may be sanitized in place with common oxidizing agents. Consult factory for compatibility information.



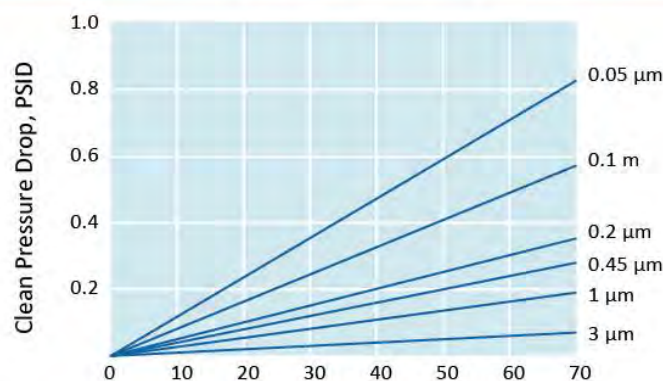
Liquid Flow Rate vs. Initial Differential Pressure



Flow Rate, GPM, Water@AMB

Flow rate is per 10" cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoises

Air Flow Rate vs. Initial Differential Pressure



Dry Air Flow Rate, SCFM@AMB

Flow rate is per 10" cartridge.

Ordering Information

TEF	0.2-	10	P-	3	E
Product Name	Retention Rating	Cartridge Length	Core Material	End Configuration	Gasket/O-ring Material
TEF	0.05, 0.1, 0.2, 0.45, 1, 3 µm	10" 20" 30" 40"	P=PP	DOE=Double Open End Code 3=222 / Flat Code 8=222 / Fin Code 7=226 / Fin, Bayonet	E=EPDM V=Viton S=Silicone F=Teflon Encapsulated Viton

UPW-Flow Series Filter Cartridges



Product Introduction

UPW-Flow series filter cartridges utilize proprietary highly asymmetric polyethersulfone membrane to deliver a combination of high flow rate and high dirt holding capacity. The polypropylene hardware construction of UPW-Flow series filter can be inert to many process fluids to ensure wide chemical compatibility. In addition, there are various materials of gasket/ o-ring available to be compatibility with numerous kinds of fluids.

- Absolute rated at 99.9% efficiency with retention
- Manufactured in a class 1,000 clean room
- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Filter Media: Highly Asymmetric Polyethersulfone Membrane
- Hardware: Polypropylene
- Sealing: Thermal Bond
- Support Material: Polypropylene
- Gaskets/O-rings: Silicone, Buna-N, EPDM, Viton, Teflon Encapsulated Viton

Dimensions

- Outside Diameter: 2.67" (68mm)
- Lengths: 10", 20", 30", 40"

Performance Specifications

Retention Ratings

0.04, 0.1, 0.2, 0.45, 0.65, 0.8, 1.2 μ m Absolute

Operating Conditions

- Maximum Operating Differential Pressure:
75 psid (5.1 bar) @ 68°F (20°C)
40 psid (2.8 bar) @ 150°F (65°C)
- Maximum Operating Temperature: 180°F (82°C)
- Recommended Change Out Differential Pressure:
35 psid (2.4 bar)



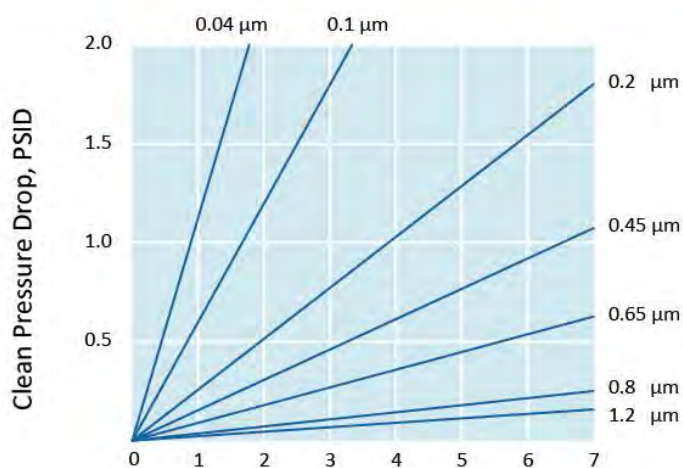
FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Sanitizing Agents

Cartridge may be sanitized in place with common oxidizing agents. Consult factory for compatibility information.

Liquid Flow Rate vs. Initial Differential Pressure



Flow Rate, GPM, Water@AMB.

Flow rate is per 10" cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoises

Ordering Information

UPW	0.2-	10-	3	E
Product Name	Retention Rating	Cartridge Length	End Configuration	Gasket/O-ring Material
UPW	0.04, 0.1,	10"	DOE=Double Open End	E=EPDM
	0.2, 0.45,	20"	Code 3=222 / Flat	V=Viton
	0.65, 0.8,	30"	Code 8=222 / Fin	S=Silicone
	1.2 µm	40"	Code 7=226 / Fin, Bayonet	F=Teflon Encapsulated Viton

VSF Series Filter Cartridges



Product Introduction

VSF series filter cartridges utilize highly asymmetric polyethersulfone (PES) membrane which can handle high flow rate and provide high dirt holding capacity. This series offers excellent retention efficiency and extended on-stream life for water system of the pharmaceutical industry as well as the food and beverage industry. In addition, the thickness of center core is enhanced to withstand hot water sanitation or steam sterilization for multiple cycles.

- Absolute rated 99.9% efficiency with retention
- Manufactured in a class 1,000 clean room
- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Filter Media: Polyethersulfone Membrane
- Hardware: Polypropylene
- Sealing: Thermal Bond
- Support Material: Polypropylene
- Gaskets/O-rings: Silicone

Dimensions

- Outside Diameter: 2.8" (71mm)
- Lengths: 10", 20", 30", 40"

Performance Specifications

Retention Ratings

0.1, 0.2, 0.45, 0.65, 0.8, 1.2 μ m Absolute

Operating Conditions

- Maximum Operating Differential Pressure:
75 psid (5.1 bar) @ 68°F (20°C)
40 psid (2.8 bar) @ 150°F (65°C)
- Maximum Operating Temperature:
180°F (82°C), CIP 203°F (95°C)
- Sanitization & Sterilization:
Hot Water @ 90°C for 30 mins. up to 100 cycles.



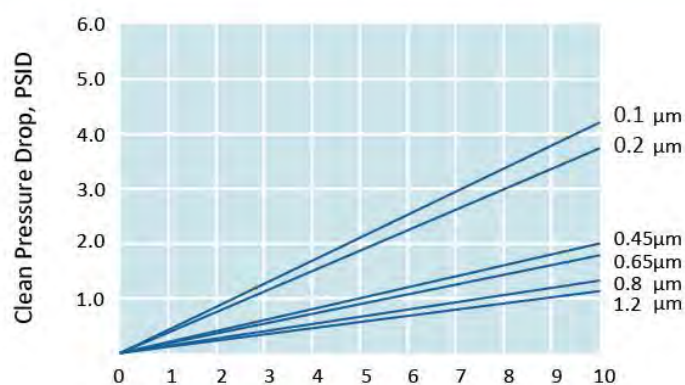
FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Purity

All VSF series filter cartridges are free of surfactants, anti-static agents, binders and adhesives.

Liquid Flow Rate vs. Initial Differential Pressure



Flow Rate, GPM, Water@AMB.

Flow rate is per 10" cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoises

Ordering Information

VSF	450-	10-	7	S
Product Name	Retention Rating	Cartridge Length	End Configuration	Gasket/O-ring Material
VSF	100=0.1 µm	10" 20" 30" 40"	DOE=Double Open End Code 3=222 / Flat Code 8=222 / Fin Code 7=226 / Fin, Bayonet Code 28=222 / Fin, Bayonet	S=Silicone
	200=0.2 µm			
	450=0.45 µm			
	650=0.65 µm			
	800=0.8 µm			
	1200=1.2 µm			

VSF-BEER Series Filter Cartridges



Product Introduction

VSF-BEER series utilizes polyethersulfone membrane to provide consistent removal of spoilage organisms and inorganic particles. This series offers excellent retention efficiency and extended on-stream life making it an ideal product for final beer bottling filtration. Each cartridge is individually tested to ensure integrity before releasing. Imprinted model number, lot number and serial number allow for easy identification and traceability.

- Manufactured in a class 1,000 clean room
- Manufactured under a certified ISO 9001 quality system
- Pre-flushed with 18 megohm-cm DI water
- Integrity Test: bubble point test, diffusion flow test

Product Specifications

Materials of Construction

- Filter Media: Polyethersulfone Membrane
- Hardware: Polypropylene
- Sealing: Thermal Bond
- Support Material: Polypropylene
- Gaskets/O-rings: Silicone

Dimensions

- Outside Diameter: 2.8" (71mm)
- Lengths: 10", 20", 30", 40"

Performance Specifications

Retention Ratings

0.45, 0.65 μ m Absolute

Operating Conditions

- Maximum Operating Differential Pressure:
75 psid (5.1 bar) @ 68°F (20°C)
40 psid (2.8 bar) @ 150°F (65°C)
- Maximum Operating Temperature:
180°F (82°C), CIP 203°F (95°C)
- Sanitization & Sterilization:
Hot Water @ 90°C for 30 mins. up to 100 cycles.



FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Bacteria Retention

Filter Grade	Microorganism	LRV
0.45 µm	Serratia marcescens	>7
	Oenococcus oeni	>7
0.65 µm	Saccharomyces cerevisiae	>7

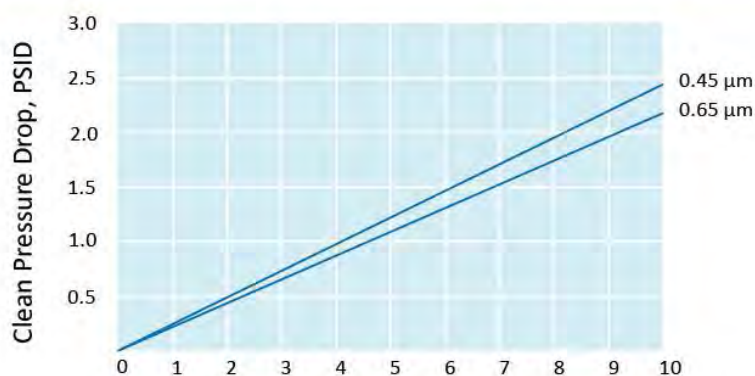
Purity

All VSF-BEER series filter cartridges are free of surfactants, anti-static agents, binders and adhesives.

Integrity Testing

Filter Grade	Bubble Point Test	Diffusion Flow Test (10'')
	Minimum Bubble Point	Maximum Diffusion Flow
0.45 µm	≥ 24 psi	≤ 30 ml/min @ 20 psi
0.65 µm	≥ 15 psi	≤ 30 ml/min @ 13 psi

Liquid Flow Rate vs. Initial Differential Pressure



Flow Rate, GPM, Water@AMB.

Flow rate is per 10'' cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoises

Ordering Information

VSF	450-	10-	7	S-	BEER
Product Name	Retention Rating	Cartridge Length	End Configuration	Gasket/O-ring Material	Industry
VSF	450=0.45µm 650=0.65µm	10'' 20'' 30'' 40''	DOE=Double Open End Code 3=222 / Flat Code 8=222 / Fin Code 7=226 / Fin, Bayonet Code 28=222 / Fin, Bayonet	S=Silicone	Beer

VSF-WINE Series Filter Cartridges



Product Introduction

VSF-WINE series utilizes polyethersulfone membrane to provide consistent removal of spoilage organisms and inorganic particles. This series offers excellent retention efficiency and extended on-stream life making it an ideal product for final wine bottling filtration. Each cartridge is individually tested to ensure integrity before releasing. Imprinted model number, lot number and serial number allow for easy identification and traceability.

- Manufactured in a class 1,000 clean room
- Manufactured under a certified ISO 9001 quality system
- Pre-flushed with 18 megohm-cm DI water
- Integrity Test : bubble point test, diffusion flow test

Product Specifications

Materials of Construction

- Filter Media: Polyethersulfone Membrane
- Hardware: Polypropylene
- Sealing: Thermal Bond
- Support Material: Polypropylene
- Gaskets/O-rings: Silicone

Dimensions

- Outside Diameter: 2.8" (71mm)
- Lengths: 10", 20", 30", 40"

Performance Specifications

Retention Ratings

- Single Layer: 0.2, 0.45, 0.65, 0.8, 1.2 μ m Absolute
- Dual Layers: 0.45/0.45, 1.2/0.45, 1.2/0.65 μ m Absolute

Operating Conditions

- Maximum Operating Differential Pressure:
75 psid (5.1 bar) @ 68°F (20°C)
40 psid (2.8 bar) @ 150°F (65°C)
- Maximum Operating Temperature:
180°F (82°C), CIP 203°F (95°C)
- Sanitization & Sterilization:
Hot Water @ 90°C for 30 mins. up to 100 cycles.

FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Purity

All VSF-WINE series filter cartridges are free of surfactants, anti-static agents, binders and adhesives.



Bacteria Retention

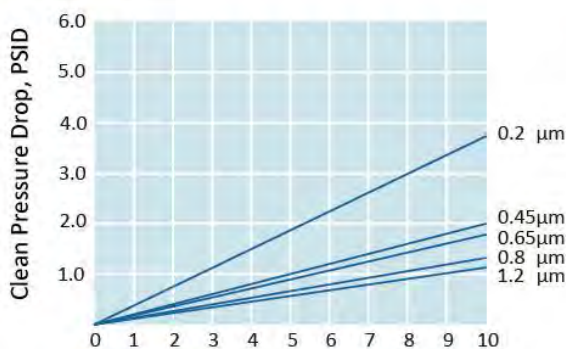
Filter Grade	Microorganism	LRV
0.2 μm	Brevundimonas diminuta	>7
0.45 μm	Serratia marcescens	>7
	Oenococcus oeni	>7
0.65 μm	Saccharomyces cerevisiae	>7

Integrity Testing

Filter Grade	Bubble Point Test	Diffusion Flow Test (10")
	Minimum Bubble Point	Maximum Diffusion Flow
0.2 μm	≥ 38 psi	≤ 30 ml/min @ 30 psi
0.45 μm	≥ 24 psi	≤ 30 ml/min @ 20 psi
0.65 μm	≥ 15 psi	≤ 30 ml/min @ 13 psi
0.8 μm	≥ 10 psi	≤ 30 ml/min @ 8 psi
1.2 μm	≥ 8 psi	≤ 30 ml/min @ 6 psi

Liquid Flow Rate vs. Initial Differential Pressure

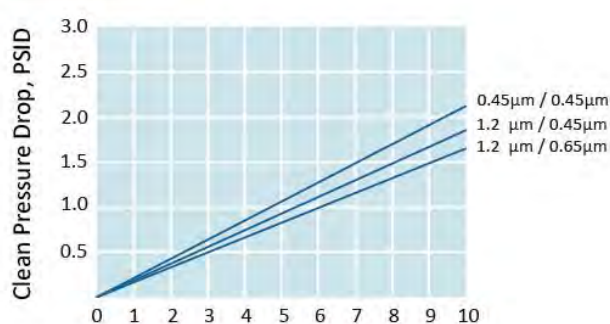
Single Layer



Flow Rate, GPM, Water@AMB.

Flow rate is per 10" cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoises

Dual Layers



Flow Rate, GPM, Water@AMB.

Ordering Information

VSF	450-	10-	7	S-	WINE
Product Name	Retention Rating	Cartridge Length	End Configuration	Gasket/O-ring Material	Industry
VSF	200=0.2 μm	10"	DOE=Double Open End	S=Silicone	Wine
	450=0.45 μm		Code 3=222 / Flat		
	650=0.65 μm		Code 8=222 / Fin		
	800=0.8 μm		Code 7=226 / Fin, Bayonet		
	1200=1.2 μm		Code 28=222 / Fin, Bayonet		
	450/450=0.45/0.45 μm	40"			
	1200/450=1.2/0.45 μm				
	1200/650=1.2/0.65 μm				

Wound-Fine BB Series Filter Cartridges



Product Introduction

Wound-Fine BB series filter cartridges are made by computerized and state-of-the-art equipment to ensure consistent quality. Its excellent characteristic of high dirt holding capacity results in long service life. Besides, the graded pore structure provides efficient removal of a wide range of particle sizes. Wound-Fine BB series filter cartridges provide many materials such as premium cotton, polypropylene and glass fiber, which allows wide chemical compatibility. In addition, proprietary helical center core provides added mechanical strength in demanding applications.

- Manufactured under a certified ISO 9001 quality system
- Core cover to minimize fiber migration (optional)
- Special outside diameter for Big Blue size housings

Product Specifications

Materials of Construction

- Filter Media: Premium Bleached Cotton (FDA Listed), Cleaned Polypropylene (FDA Listed)
- Center Core: Polypropylene, 304 Stainless Steel, 316 Stainless Steel
- Core Cover(optional): Consistent with existing string material

Dimensions

- Outside Diameter: 4.3" (110mm)
- Inside Diameter: 1.1" (28mm)
- Lengths: 10", 20"

Performance Specifications

Retention Ratings

- 10" (PP and Cotton): 1, 5, 10, 20, 30, 50, 100 μ m
- 20" (PP and Cotton): 1, 5, 10, 20, 30 μ m

Operating Conditions

Maximum Temperature Ratings: see Material Selection Guide



Material Selection Guide

		Filter Media	
		Premium Bleached Cotton (FDA Listed)	Cleaned Polypropylene (FDA Listed)
Maximum Temperature	Stainless Steel Core	300°F (130°C)	200°F (95°C)
	Polypropylene Core	140°F (60°C)	140°F (60°C)
Compatibility	Food, Potable Water	Excellent	Excellent
	Oils	Excellent	Excellent
	Organic Acids	Good	Excellent
	Alkalies	Good	Excellent

Ordering Information

WF-	5	P	10	P-	BB
Product Name	Retention Rating	Filter Media	Cartridge Length	Core Material	End Configuration
WF	1, 5, 10, 20, 30, 50, 100 µm	P= PP C= Cotton	10"	P=PP A=304SS S=316SS	BB=for Big Blue Size Housing
	1, 5, 10, 20, 30 µm		20"		

Wound-Fine Series Filter Cartridges



Product Introduction

Wound-Fine series filter cartridges are made by computerized and state-of-the-art equipment to ensure consistent quality. Its excellent characteristic of high dirt holding capacity results in long service life. Besides, the graded pore structure provides efficient removal of a wide range of particle sizes. Wound-Fine series has many materials available such as premium cotton, polypropylene and glass fiber, which allows wide chemical compatibility. In addition, proprietary helical center core provides added mechanical strength in demanding applications.

- Manufactured under a certified ISO 9001 quality system
- Core cover to minimize fiber migration (optional)
- Extended core (optional)

Product Specifications

Materials of Construction

- Filter Media: Premium Bleached Cotton (FDA Listed), Cleaned Polypropylene (FDA Listed), Glass Fiber
- Center Core: Polypropylene, 304 Stainless Steel, 316 Stainless Steel
- Extended Core(optional): Polypropylene, 304 Stainless Steel, 316 Stainless Steel
- Core Cover(optional): Consistent with existing string material

Dimensions

- Outside Diameter: 2.5" (63mm)
- Inside Diameter: 1.1" (28mm)
- Lengths: 10", 20", 30", 40", 50", 60", 70"

Performance Specifications

Retention Ratings

- PP: 0.5, 1, 3, 10, 20, 50, 75, 100 μ m
- Cotton: 0.5, 1, 3, 10, 20, 50, 75, 100 μ m
- Glass Fiber: 1, 5, 10, 20, 30, 50 μ m

Operating Conditions

Maximum Temperature Ratings: see Material Selection Guide



Material Selection Guide

		Filter Media		
		Premium Bleached Cotton (FDA Listed)	Cleaned Polypropylene (FDA Listed)	Glass Fiber
Maximum Temperature	Stainless Steel Core	300°F (130°C)	200°F (95°C)	750°F (400°C)
	Polypropylene Core	140°F (60°C)	140°F (60°C)	140°F (60°C)
Compatibility	Food, Potable Water	Excellent	Excellent	Poor
	Organic Solvents	Excellent	Good	Excellent
	Oils	Excellent	Excellent	Excellent
	Organic Acids	Good	Excellent	Excellent
	Alkalies	Good	Excellent	Poor
	Oxidizing Agents	Fair	Good	Excellent
	Steam (Non Continuous)	Not Relevant	Fair	Not Relevant
	Strong Acide	Not Relevant	Excellent	Excellent
	Dilute Acide	Fair	Excellent	Excellent
	Micro Organism Resistance	Poor	Excellent	Excellent

Ordering Information

WF-	10	P	10	P-	EP
Product Name	Retention Rating	Filter Media	Cartridge Length	Core Material	Extended Core (Optional)
WF	0.5, 1, 3, 10, 20, 50, 75, 100 µm	P=PP	10"	P=PP A=304SS S=316SS	EP=Polypropylene
			20"		EA=304SS
			30"		ES=316SS
	0.5, 1, 3, 10, 20, 50, 75, 100 µm	C=Cotton	40"		Code 3=222 / Flat
			50" (SS core)		Code 8=222 / Fin
			60" (SS core)		C=Core cover
	1, 5, 10, 20, 30, 50 µm	G=Glass Fiber	70" (SS core)		

BDV Series Sanitary Filter Housings



Product Introduction

Filtrafine BDV series sanitary filter housing is made of stainless steel 304, 316 or 316L material, which is designed for sterile filtration prior to bottling. All internal surfaces are polished to 0.2 RA to limit microbial adhesive and provide easy cleaning. The sanitary connection design ensures product can no longer become contaminated. The BDV series housing is compatible with 1 to 29 rounds and 10" to 40" length filter cartridges for client various flow rate demands. BDV series is compatible with Filtrafine VSF, BPPF and BGPF series filter cartridges, which meets and surpasses the filtration criteria necessary to maintain product quality.

- Manufactured under a certified ISO 9001 quality system
- ASME Code U/UM stamp (optional)

Product Specifications

Materials of Construction

- Head: 316 or 316L Stainless Steel
- Shell: 316 or 316L Stainless Steel
- Leg/Clamp: 304 Stainless Steel
- O-rings: Silicone (standard)
EPDM, Teflon Encapsulated Viton, Viton (optional)

Dimensions

- Inlet/Outlet: 1"- 6" Ferrule Ends
- Vent : 1/2"- 1" Ferrule End

* If you need over 12 rounds cartridge housing, please contact with your Filtrafine representative.

Performance Specifications

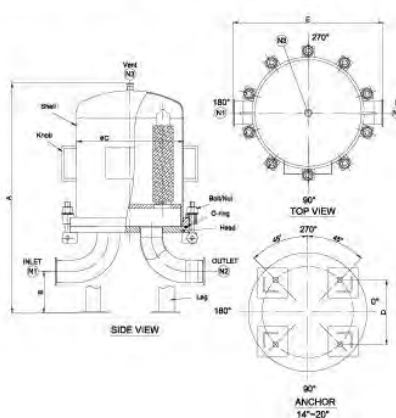
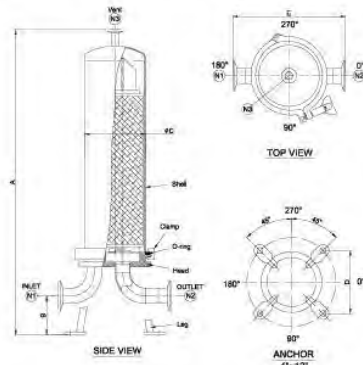
Maximum Operating Pressure

150 psig (10.3 bar) @ 77°F (25°C) in liquid service



Model	Element	INLET / OUTLET	Vent	Dimension Inch (mm)					Cartridge Diameter
				A	B	C	D	E	
18DV1-1	1	1"	1/2"	20" (509)	2.5" (65)	4" (102)	4.1" (105)	7.4" (188)	2.8" (71)
28DV2-1	1	1"	1/2"	30" (763)					
38DV3-1	1	1"	1/2"	40" (1017)					
48DV4-1	1	1"	1/2"	50" (1271)					
38DV1-1.5	3	1.5"	1/2"	22.4" (570)	3.1" (80)	6" (169)	6.1" (156)	10.5 (268)	2.8" (71)
68DV2-1.5	3	1.5"	1/2"	32.4" (824)					
98DV3-1.5	3	1.5"	1/2"	42.4" (1078)					
128DV4-1.5	3	1.5"	1/2"	52.4" (1332)					
48DV1-2	4	2"	1/2"	24.2" (617)	3.9" (100)	8" (215)	8.3" (212)	13" (332)	2.8" (71)
88DV2-2	4	2"	1/2"	34.2" (871)					
128DV3-2	4	2"	1/2"	44.2" (1125)					
168DV4-2	4	2"	1/2"	54.2" (1379)					
68DV1-2	6	2"	1/2"	25" (636)	3.9" (100)	9" (237)	10.3" (262)	12.8" (326)	2.8" (71)
128DV2-2	6	2"	1/2"	35" (890)					
188DV3-2	6	2"	1/2"	45" (1145)					
248DV4-2	6	2"	1/2"	55" (1399)					
88DV1-2.5	8	2.5"	3/4"	27" (686)	4.7" (120)	10" (273)	11.2" (287)	15.7" (400)	2.8" (71)
168DV2-2.5	8	2.5"	3/4"	37" (940)					
248DV3-2.5	8	2.5"	3/4"	47" (1194)					
328DV4-2.5	8	2.5"	3/4"	57" (1448)					

Model	Element	INLET / OUTLET	Vent	Dimension Inch (mm)					Cartridge Diameter
				A	B	C	D	E	
118DV1-3	11	3"	3/4"	28.3" (721)	4.7" (120)	12" (318)	13.6" (346)	17.4" (442)	2.8" (71)
228DV2-3	11	3"	3/4"	38.3" (975)					
338DV3-3	11	3"	3/4"	48.3" (1229)					
448DV4-3	11	3"	3/4"	58.3" (1483)					
158DV1-3	15	3"	3/4"	30.2" (768)	5.5" (140)	14" (356)	8.4" (215)	20.1" (500)	2.8" (71)
308DV2-3	15	3"	3/4"	40.2" (1022)					
458DV3-3	15	3"	3/4"	50.2" (1276)					
608DV4-3	15	3"	3/4"	60.2" (1530)					
208DV1-4	20	4"	1"	34.1" (868)	7.8" (200)	16" (406)	9.9" (253)	23.9" (608)	2.8" (71)
408DV2-4	20	4"	1"	44.1" (1122)					
608DV3-4	20	4"	1"	54.1" (1376)					
808DV4-4	20	4"	1"	64.1" (1630)					
248DV1-4	24	4"	1"	34.6" (880)	7.8" (200)	18" (456)	11.2" (287)	25.5" (648)	2.8" (71)
488DV2-4	24	4"	1"	44.6" (1134)					
728DV3-4	24	4"	1"	54.6" (1388)					
968DV4-4	24	4"	1"	64.6" (1642)					
298DV1-6	29	6"	1"	38.8" (987)	8.6" (220)	20" (508)	12.9" (329)	27.9" (710)	2.8" (71)
588DV2-6	29	6"	1"	48.8" (1241)					
878DV3-6	29	6"	1"	58.8" (1495)					
1168DV4-6	29	6"	1"	68.8" (1749)					



Ordering Information

3	BDV	1	S-	1.5-	CB-	C	150-	7	-UM
No. of 10" Equiv.	Product Name	Cartridge Length	Material of Construction	Inlet/Outlet Connection Size	Tri-Clamp Bracket	Code	Pressure Rating (psig)	Cartridge Type	ASME Stamp
1, 2, 3, 4, 6, 8, 9, ..., 116	BDV	1=10" 2=20" 3=30" 4=40"	S=316SS SL=316LSS	1", 1.5", 2", 2.5", 3", 4", 6"	CB=Tri-Clamp Bracket EB=Eye Bolt Closure	Blank=None Code C=ASME Code	100 150	Code 3=222 / Flat Code 8=222 / Fin Code 7=226 / Fin, Bayonet Code 28=222 / Fin, Bayonet	Blank=None Code U=U Stamp UM=UM Stamp

CSV Series Filter Housings



Product Introduction

Filtrafine CSV series filter housing is compatible with Filtrafine FasClean-Flow filter cartridge to attain high flow service and longer life time in TFT-LCD G7 and G8 applications. The CSV series filter housing is available in 304, 316 or 316L stainless steel material of construction for maximum corrosive resistance. The housing inlet and outlet connections are aligned in T-style for quick and easy installation. Friendly tri-clamp closure provides positive sealing with fast cartridge change-out.

- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Head: 304, 316 or 316L Stainless Steel
- Shell: 304, 316 or 316L Stainless Steel
- Clamp: 304 Stainless Steel
- O-rings: EPDM (standard)
Silicone, Teflon Encapsulated Viton, Viton (optional)

Dimensions

- Inlet/Outlet: 2"
- Connection Types: ANSI, JIS, and DIN Flange
NPT, BSP, and PT Thread
Union
- Vent : 1/2" NPT
- Drain: 1/2" NPT

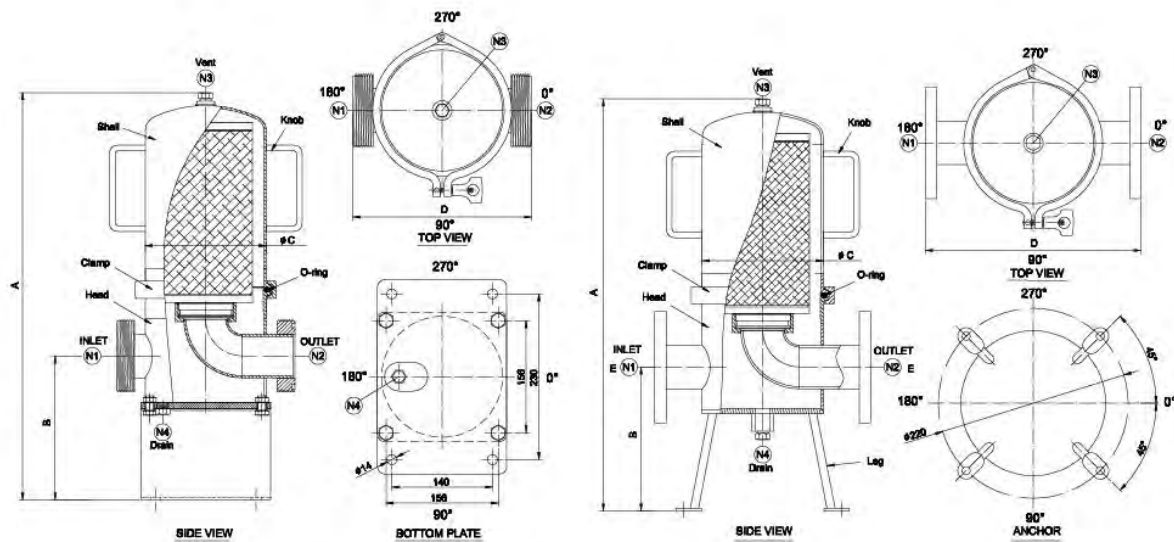
Performance Specifications

Maximum Operating Pressure

150 psig (10.3 bar) @ 77°F (25°C) in liquid service



Model	Dimension Inch (mm)				
	A	B	øC	D	E
CSV	26.7(566)	9.4(200)	6.6"(ø168)	14.1(300)	2"



Ordering Information

CSV	1	A-	2	TN-	CB
Product Name	Cartridge Length	Material of Construction	Inlet/Outlet Connection Size	Connection Type	Tri-Clamp Bracket
CSV	1=10"	A=304SS S=316SS SL=316LSS	2"	FA=ANSI Flange FJ=JIS Flange FD=DIN Flange TN=NPT Thread TP=PT Thread TB=BSP Thread UN=Union	CB

DJ-P Series Filter Housings



Product Introduction

Filtrafine DJ-P series single filter housing is made of pure virgin polypropylene which has wide chemical compatibility to meet various application requirements, especially the FDA listed material is suitable for food and beverage contact. The length is offered in standard 10" and 20" for single open end, 222 o-ring, flat closed end filter cartridge without any internal part requirements in this housing. Optional mounting bracket kit provides easy installation and all materials are in stainless steel for durability.

- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Head/Bowl: Pure Virgin Polypropylene – No Talc, Fillers, Plasticizers, Lubricants
- Mounting Bracket: Stainless Steel
- O-rings: Viton (standard)
EPDM, Buna-N (optional)

Dimensions

- Inlet/Outlet: DJ10P: 3/4" FNPT
DJ20P: 3/4", 1" FNPT
- Vent/Gauge: 1/4" NPT
- Drain: 1/4" NPT

Performance Specifications

Maximum Operating Pressure

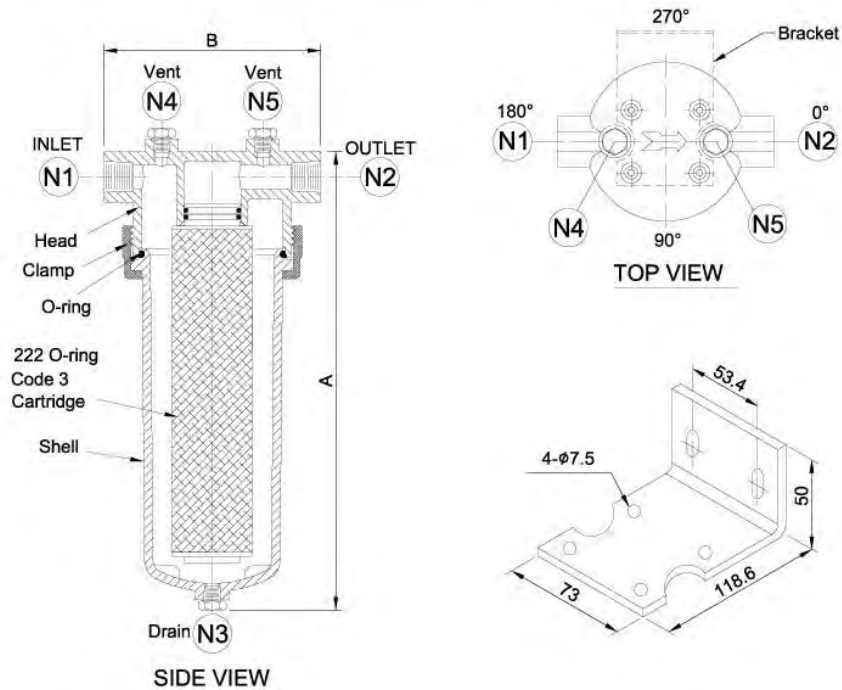
125 psig (8.6 bar) @ 77°F (25°C) in liquid service

FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.



Model	Max. Liquid Flow Rate gpm (lpm)	Dimension Inch (mm)							Weight lbs (kg)
		A	B	N1	N2	N3	N4	N5	
DJ10P	10 (37.9lpm)	13.9"(355)	6.6"(168)	3/4"	3/4"	1/4"	1/4"	1/4"	2.1lbs (0.97kg)
DJ10P	10 (37.9lpm)	13.9"(355)	6.6"(168)	1"	1"	1/4"	1/4"	1/4"	2.1lbs (0.97kg)
DJ20P	20 (75.7lpm)	23.7"(604)	6.6"(168)	3/4"	3/4"	1/4"	1/4"	1/4"	3.2lbs (1.47kg)
DJ20P	20 (75.7lpm)	23.7"(604)	6.6"(168)	1"	1"	1/4"	1/4"	1/4"	3.2lbs (1.47kg)



Ordering Information

Product Name	Cartridge Length	Material of Construction	Inlet/Outlet Connection Size	Connection Type	Cartridge Type
DJ	10 20	P=Polypropylene	3/4", 1"	TN=NPT Thread TP=PT Thread	Code 3=222 / Flat

EJ Series Filter Housings



Product Introduction

Filtrafine EJ series filter housing has superior chemical compatibility which could be widely used in various industrial applications. EJ series housing has two materials, EJ-P - 100% Polypropylene and EJ-C - Clear Styrene Acrylonitrile Shell, which offers visual confirmation of a positive cartridge and housing sealing. EJ series offers standard 10" length for double open end or code 10 filter cartridge.

- Materials are FDA listed
- Manufactured under a certified ISO 9001 and ISO 14001 quality system

Product Specifications

Materials of Construction

- Head: Reinforced Polypropylene
- Bowl: Styrene Acrylonitrile (Clear), Polypropylene (Opaque)
- Mounting Bracket: Polypropylene
- O-rings: Buna-N (standard)
EPDM, Viton (optional)

Dimensions

Inlet/Outlet: 3/4" PT or 3/4" NPT

Performance Specifications

Maximum Operating Pressure

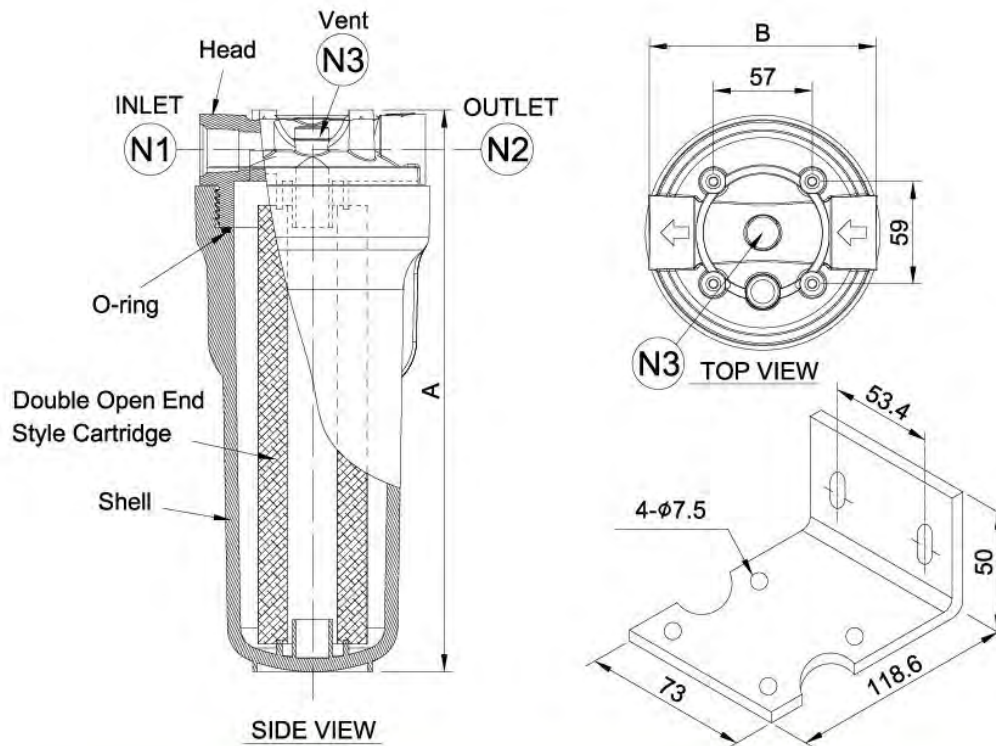
150 psig (10 bar) @ 77°F (25°C) in liquid service

FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.



Model	Max. Liquid Flow Rate gpm (lpm)	Dimension Inch (mm)					Weight lbs (kg)
		A	B	N1	N2	N3	
EJ10P-3/4	10 (37.9lpm)	12.7"(324)	5.2"(131)	3/4"	3/4"	1/4"	2.5lbs (1.15kg)
EJ10C-3/4	10 (37.9lpm)	12.7"(324)	5.2"(131)	3/4"	3/4"	1/4"	2.8lbs (1.27kg)



Ordering Information

EJ	10	P-	3/4	TN-	DOE
Product Name	Cartridge Length	Material of Construction	Inlet/Outlet Connection Size	Connection Type	Cartridge Type
EJ	10=10"	P=Polypropylene C=Styrene Acrylonitrile (Bowl), Polypropylene (Head)	3/4"	TN=NPT Thread TP=PT Thread	DOE=Double Open End

IDV-3 Series Filter Housings



Product Introduction

Filtrafine single-round filter cartridge housing IDV-3 series is renowned with its innovative housing design and superior quality. IDV-3 series filter housing is available in electro-polished stainless steel 316 to meet a wide range of liquid processing applications. The tri-clamp design provides absolute cartridge sealing to avoid fluid bypass and quick cartridge change-out without any special tools. The robust IDV-3 design has no internal part and can accommodate 222 o-ring, flat closed end cartridge.

- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Head: 316 Stainless Steel
- Shell: 316 Stainless Steel
- Mounting Bracket: 304 Stainless Steel
- O-rings: Viton (standard)
EPDM, Teflon Encapsulated Viton (optional)

Dimensions

- Inlet/Outlet: 3/4", 1" FNPT
- Vent/Gauge: 1/8" FNPT
- Drain: 1/4" FNPT

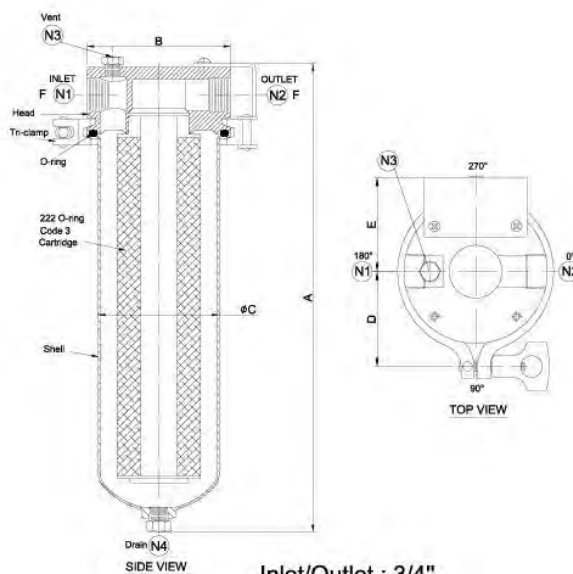
Performance Specifications

Maximum Operating Pressure

175 psid (12.1 bar) @ 77°F (25°C) in liquid service



Model	Max. Liquid Flow Rate gpm (lpm)	Dimension Inch (mm)						Weight lbs (kg)
		A	B	ØC	D	E	F	
IDV4S	4 (15.1lpm)	7.5"(193)	4.2"(106)	3"(89)	2.7"(70)	2.7"(69)	3/4"	8.6lbs (3.9kg)
IDV10S	10 (37.9lpm)	13.5"(345)	4.2"(106)	3"(89)	2.7"(70)	2.7"(69)	3/4"	10.1lbs (4.6kg)
IDV20S	20 (75.7lpm)	23.7"(604)	4.2"(106)	3"(89)	2.7"(70)	2.7"(69)	3/4"	12.6lbs (5.7kg)
IDV30S	30 (113.5lpm)	33.5"(853)	4.2"(106)	3"(89)	2.7"(70)	2.7"(69)	3/4"	15.2lbs (6.9kg)
IDV4S	4 (15.1lpm)	7.8"(200)	4.2"(106)	3"(89)	2.7"(70)	2.7"(69)	1"	8.6lbs (3.9kg)
IDV10S	10 (37.9lpm)	13.8"(353)	4.2"(106)	3"(89)	2.7"(70)	2.7"(69)	1"	10.1lbs (4.6kg)
IDV20S	20 (75.7lpm)	23.8"(607)	4.2"(106)	3"(89)	2.7"(70)	2.7"(69)	1"	12.6lbs (5.7kg)
IDV30S	30 (113.5lpm)	33.6"(855)	4.2"(106)	3"(89)	2.7"(70)	2.7"(69)	1"	15.2lbs (6.9kg)



Inlet/Outlet : 3/4"

Ordering Information

IDV	10	S-	3/4	TN-	CB-	3
Product Name	Cartridge Length	Material of Construction	Inlet/Outlet Connection Size	Connection Type	Tri-Clamp Bracket	Cartridge Type
IDV	4=4" 10=10" 20=20" 30=30"	A=304SS S=316SS	3/4", 1"	TN=NPT Thread TP=PT Thread TB=BSP Thread	CB=Tri-Clamp Bracket	Code 3= 222 / Flat

IDV-6 Series Filter Housings



Product Introduction

Filtrafine IDV-6 series is a single cartridge housing which can accommodate Filtrafine Mega-Flow series filter cartridge. IDV-6 is specially designed to meet the critical requirements in TFT-LCD industry. In addition, IDV-6 series is available in electro-polished stainless steel 316 to meet a wide range of liquid filtration applications. The tri-clamp closure design provides absolute cartridge sealing to avoid fluid bypass and change out cartridge quickly without any tools. The robust IDV-6 series filter housing has no internal part and can accommodate 10" or 20" length, 226 o-ring, flat closed end cartridge.

- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Head: 316 Stainless Steel
- Shell: 316 Stainless Steel
- Mounting Bracket: 304 Stainless Steel
- O-rings: Viton (standard)
EPDM, Teflon Encapsulated Viton (optional)

Dimensions

- Inlet/Outlet: 1" FNPT
- Vent/Gauge: 1/8" FNPT
- Drain: 1/4" FNPT

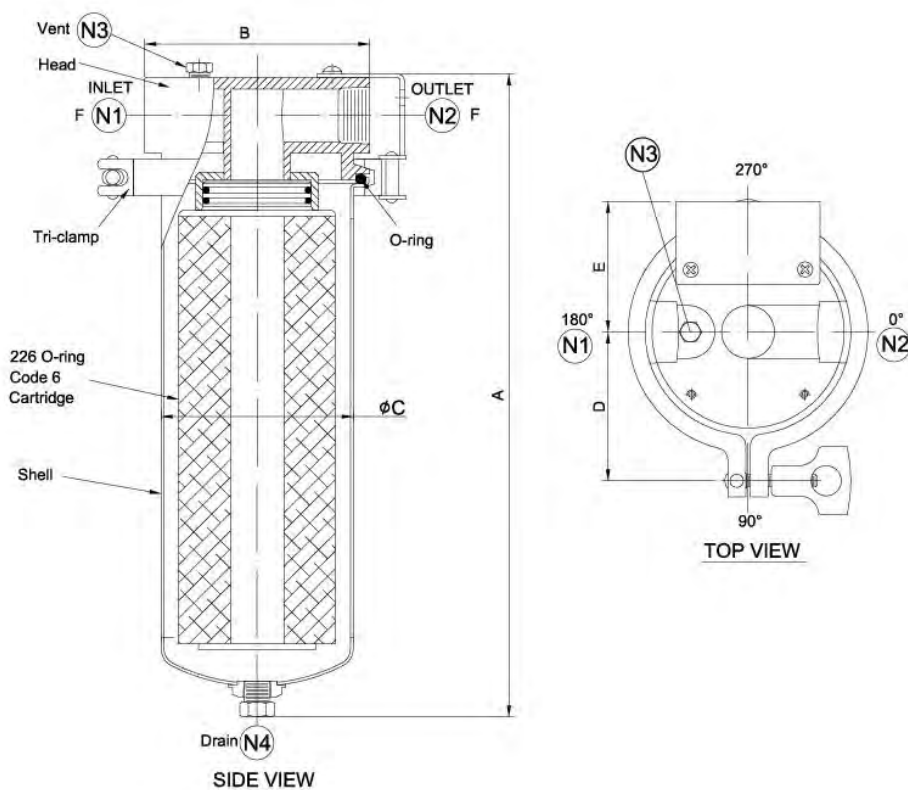
Performance Specifications

Maximum Operating Pressure

175 psid (12.1 bar) @ 77°F (25°C) in liquid service



Model	Max. Liquid Flow Rate gpm (lpm)	Dimension Inch (mm)						Weight lbs (kg)
		A	B	ØC	D	E	F	
IDV10S-1	20 (75.7lpm)	13"(332)	4.7"(119)	3.5"(101)	3.1"(79)	2.7"(69)	1"	8.6lbs (3.9kg)
IDV20S-1	40 (151.4lpm)	23.1"(586)	4.7"(119)	3.5"(101)	3.1"(79)	2.7"(69)	1"	10.1lbs (4.6kg)



Ordering Information

IDV	10	S-	1	TN-	CB-	6
Product Name	Cartridge Length	Material of Construction	Inlet/Outlet Connection Size	Connection Type	Tri-Clamp Bracket	Cartridge Type
IDV	10=10" 20=20"	S=316SS	1"	TN=NPT Thread TP=PT Thread TB=BSP Thread	CB=Tri-Clamp Bracket	Code 6= 226 / Flat

IDV-DOE Series Filter Housings



Product Introduction

Filtrafine IDV-DOE series is a single round metal cartridge filter housing with well developed construction design and high standard quality. The IDV-DOE series is available in electro-polished stainless steel 316 to meet a wide range of liquid filtration challenges. The innovative tri-clamp design provides absolute cartridge sealing to avoid liquid bypass and offer quick cartridge change-out without any special tools. The robust IDV-DOE series design permits visual inspection of cartridge sealing before closing the housing.

- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Head: 316 Stainless Steel
- Shell: 316 Stainless Steel
- Mounting Bracket: 304 Stainless Steel
- O-rings: Viton (standard)
EPDM, Teflon Encapsulated Viton (optional)

Dimensions

- Inlet/Outlet: 3/4", 1" FNPT
- Vent/Gauge: 1/8" FNPT
- Drain: 1/4" FNPT

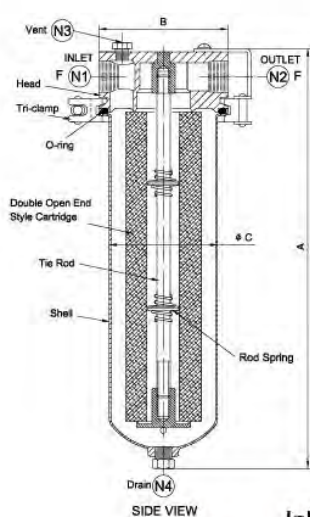
Performance Specifications

Maximum Operating Pressure

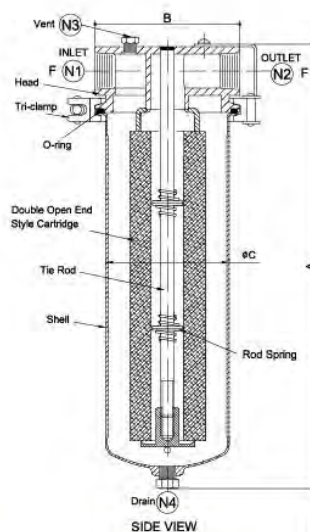
175 psig (12.1 bar) @ 77°F (25°C) in liquid service



Model	Max. Liquid Flow Rate gpm (lpm)	Dimension Inch (mm)						Weight lbs (kg)
		A	B	øC	D	E	F	
IDV4S	4 (15.1lpm)	7.5"(193)	4.2"(106)	3"(89)	2.7"(70)	2.7"(69)	3/4"	8.6lbs (3.9kg)
IDV10S	10 (37.9lpm)	13.5"(345)	4.2"(106)	3"(89)	2.7"(70)	2.7"(69)	3/4"	10.1lbs (4.6kg)
IDV20S	20 (75.7lpm)	23.7"(604)	4.2"(106)	3"(89)	2.7"(70)	2.7"(69)	3/4"	12.6lbs (5.7kg)
IDV4S	4 (15.1lpm)	8.3"(212)	4.6"(119)	3.5"(101.6)	3.1"(79)	2.7"(69)	1"	9.9lbs (4.5kg)
IDV10S	10 (37.9lpm)	14.3"(364)	4.6"(119)	3.5"(101.6)	3.1"(79)	2.7"(69)	1"	11.4lbs (5.2kg)
IDV20S	20 (75.7lpm)	24.3"(618)	4.6"(119)	3.5"(101.6)	3.1"(79)	2.7"(69)	1"	13.8lbs (6.3kg)



Inlet/Outlet : 3/4"



Inlet/Outlet : 1"

Ordering Information

IDV	10	S-	1	TN-	CB-	DOE
Product Name	Cartridge Length	Material of Construction	Inlet/Outlet Connection Size	Connection Type	Tri-Clamp Bracket	Cartridge Type
IDV	4=4" 10=10" 20=20"	S=316SS	3/4" 1"	TN=NPT Thread TP=PT Thread TB=BSP Thread	CB=Tri-Clamp Bracket	DOE=Double Open End

IDV-HP Series Filter Housings



Product Introduction

Filtrafine IDV-HP series is designed with flange type closure and well developed construction. It's hex nut closure ensures absolute sealing to avoid any chance of bypass. Especially, for Code 3 and Code 6 filter elements, IDV-HP is an innovative housing design which has no internal parts. Besides, the robust IDV-HP housings permit visual inspection of cartridge installation. This series is an ideal option for low flow rate applications which demand high pressure withstanding.

- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Head: 316 Stainless Steel
- Shell: 316 Stainless Steel
- Mounting Bracket: 304 Stainless Steel
- O-rings: Viton (standard)
EPDM, Teflon Encapsulated Viton (optional)

Dimensions

- Inlet/Outlet: 3/4", 1" FNPT
- Vent/Gauge: 1/8" FNPT
- Drain: 1/4" FNPT

Performance Specifications

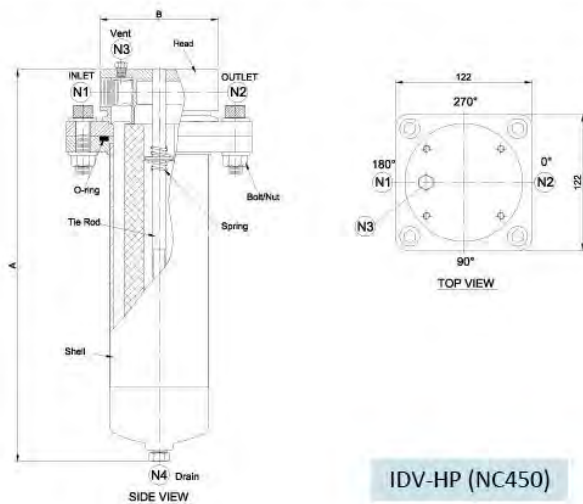
Maximum Operating Pressure

- NC450: 450 psig (31 bar) @ 77°F (25°C) in liquid service
- NC1000: 1000 psig (70 bar) @ 77°F (25°C) in liquid service

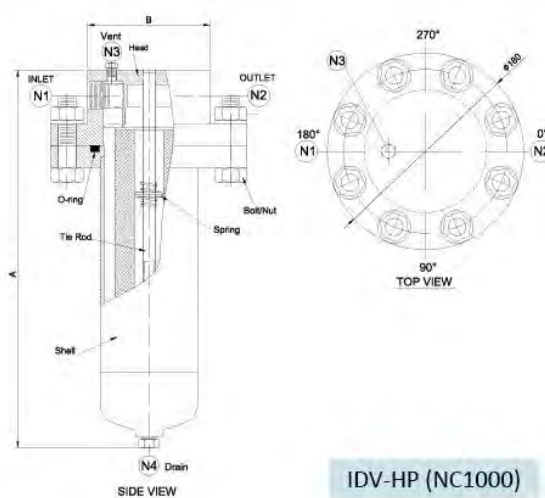


Model	Max. Liquid Flow Rate gpm (lpm)	Dimension Inch (mm)		Weight lbs (kg)
		A	B	
IDV10S-NC450	10 (37.9lpm)	13.6"(346mm)	4.4"(112mm)	10.1lbs (4.6kg)
IDV20S-NC450	20 (75.7lpm)	24.2"(615mm)	4.4"(112mm)	12.6lbs (5.7kg)

Model	Max. Liquid Flow Rate gpm (lpm)	Dimension Inch (mm)		Weight lbs (kg)
		A	B	
IDV10S-NC1000	10 (37.9lpm)	13.6"(346mm)	4.4"(112mm)	10.1lbs (4.6kg)
IDV20S-NC1000	20 (75.7lpm)	24.2"(615mm)	4.4"(112mm)	12.6lbs (5.7kg)



IDV-HP (NC450)



IDV-HP (NC1000)

Ordering Information

IDV	10	S-	3/4	TN-	NC	450-	DOE
Product Name	Cartridge Length	Material of Construction	Inlet/Outlet Connection Size	Connection Type	Code	Pressure Rating (psig)	Cartridge Type
IDV	10=10"	S=316SS	3/4", 1"	TN=NPT Thread TP=PT Thread TB=BSP Thread	NC=None Code	450 1000	DOE=Double Open End Code 3=222 / Flat Code 6=226 / Flat

MSV Series Filter Housings



Product Introduction

Filtrafine MSV series stainless steel multi-cartridge filter housing provides high-volume solutions for high flow applications. The MSV series housing is compatible with 12 to 147 rounds and 10" to 40" length filter cartridges for various flow rate demand. The MSV series is designed with a proven swing eye-bolt closure mechanism to ensure sealing and provides user friendly davit arm assisted cover lifting mechanism. MSV series filter housing is constructed of 304, 316 or 316L stainless steel material, and it gives excellent resistance of corrosion for product purity.

- Manufactured under a certified ISO 9001 quality system
- ASME Code U/UM stamp (optional)

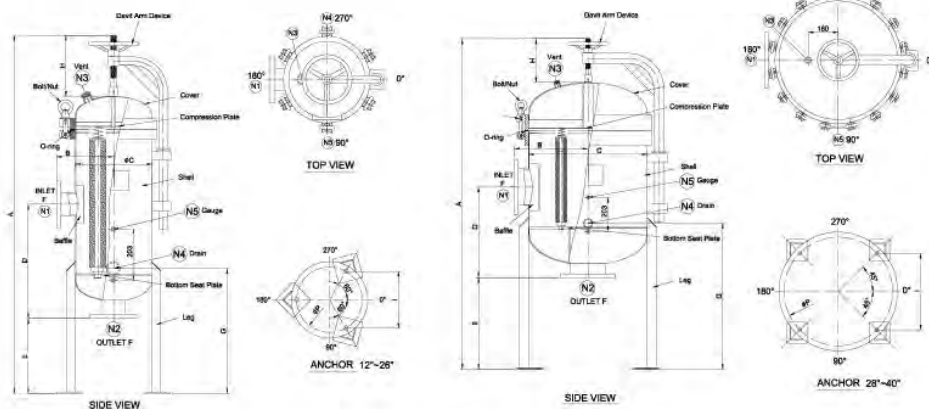
Product Specifications

Materials of Construction

- Head and Shell: 304 or 316 Stainless Steel
- Connections: 304 or 316 Stainless Steel
- Internal Components: 304 or 316 Stainless Steel
- Swing Eye Bolts: 304 Stainless Steel
- O-rings: EPDM (standard)
Silicone, Teflon Encapsulated Viton, Viton (optional)

Dimensions

- Inlet/Outlet: 3", 4", 6", 8", 10", 12"
- Connection Types: ANSI, JIS, and DIN Flange
- Vent : 1" NPT
- Drain: 1.5" NPT
- Gauge: 1/4" NPT





Performance Specifications

Maximum Operating Pressure

150 psig (10.3 bar) @ 77°F (25°C) in liquid service

12 Elements	A	B	ØC	D	E	F	G	H	ØP	I	Legs
24MSV2	56.3" (1428)										
36MSV3	66.2" (1682)	9.0" (228)	12" (305)	17.0" (435)	11.8" (300)	3"	19.6" (499)	9.5" (242)	10.2" (261)	8.9" (227)	3
48MSV4	79.0" (1996)										
18 Elements	A	B	ØC	D	E	F	G	H	ØP	I	Legs
36MSV2	57.3" (1455)										
54MSV3	67.3" (1710)	10" (254)	14" (355)	18.2" (462)	11.8" (300)	3"	20.1" (512)	9.5" (242)	12.4" (314)	10.7" (272)	3
72MSV4	77.3" (1964)										
22 Elements	A	B	ØC	D	E	F	G	H	ØP	I	Legs
44MSV2	60.7" (1545)										
66MSV3	70.7" (1797)	10.9" (278)	16" (406)	18.8" (478)	13.8" (350)	4"	22.7" (577)	9.5" (242)	14.3" (365)	12.4" (314)	3
88MSV4	80.7" (2051)										
28 Elements	A	B	ØC	D	E	F	G	H	ØP	I	Legs
56MSV2	62.1" (1578)										
84MSV3	72.1" (1832)	11.9" (303)	18" (456)	19.2" (488)	13.8" (350)	4"	23.3" (594)	9.5" (242)	16.3" (415)	14.1" (359)	3
112MSV4	82.1" (2086)										
36 Elements	A	B	ØC	D	E	F	G	H	ØP	I	Legs
72MSV2	68.8" (1749)										
108MSV3	78.8" (2003)	12.9" (329)	20" (508)	19.6" (498)	13.8" (350)	6"	28.4" (722)	10.3" (262)	16.9" (430)	14.6" (373)	3
144MSV4	88.8" (2257)										
42 Elements	A	B	ØC	D	E	F	G	H	ØP	I	Legs
84MSV2	68.4" (1738)										
126MSV3	80.1" (2037)	13.9" (354)	22" (558)	20" (512)	17.7" (450)	6"	29.0" (738)	10.3" (262)	18.9" (481)	16.4" (417)	3
168MSV4	90.1" (2291)										
52 Elements	A	B	ØC	D	E	F	G	H	ØP	I	Legs
104MSV2	71.2" (1813)										
156MSV3	81.2" (2055)	14.9" (379)	24" (608)	20.5" (520)	17.7" (450)	6"	29.4" (749)	10.3" (262)	20.9" (531)	18.1" (460)	3
208MSV4	91.2" (2319)										
61 Elements	A	B	ØC	D	E	F	G	H	ØP	I	Legs
122MSV2	72.4" (1841)										
183MSV3	82.4" (2095)	15.9" (404)	26" (658)	20.8" (529)	17.7" (450)	6"	29.9" (761)	10.3" (262)	22.9" (582)	19.8" (504)	3
244MSV4	92.4" (2349)										

69 Elements	A	B	ØC	D	E	F	G	H	ØP	I	Legs
138MSV2	77.7" (1976)										
207MSV3	87.7" (2230)	17.3" (440)	28" (710)	21.3" (539)	21.7" (550)	8"	34.3" (873)	10.3" (262)	25.5" (650)	18.1" (460)	4
276MSV4	97.7" (2484)										
81 Elements	A	B	ØC	D	E	F	G	H	ØP	I	Legs
162MSV2	79.0" (2000)										
243MSV3	89.0" (2263)	18.3" (465)	29.9" (760)	21.7" (551)	21.7" (550)	8"	35" (889)	10.3" (262)	29.9" (760)	18.4" (465)	4
324MSV4	99.0" (2517)										
94 Elements	A	B	ØC	D	E	F	G	H	ØP	I	Legs
188MSV2	80" (2034)										
282MSV3	89.4" (2273)	19.3" (490)	32" (810)	22.1" (561)	21.7" (550)	8"	35.4" (901)	10.3" (262)	29.5" (750)	20.8" (530)	4
376MSV4	100" (2540)										
105 Elements	A	B	ØC	D	E	F	G	H	ØP	I	Legs
210MSV2	86.1" (2189)										
315MSV3	96.1" (2443)	20.8" (530)	33.8" (860)	23.1" (586)	26.0" (660)	10"	40.8" (1038)	10.3" (262)	31.4" (799)	22.2" (565)	4
420MSV4	106.1" (2697)										
119 Elements	A	B	ØC	D	E	F	G	H	ØP	I	Legs
238MSV2	90.5" (2299)										
357MSV3	100.5" (2553)	21.9" (556)	36.0" (912)	23.8" (605)	26.0" (660)	10"	41.7" (1060)	12.8" (326)	32.0" (814)	22.6" (575)	4
476MSV4	110.5" (2807)										
131 Elements	A	B	ØC	D	E	F	G	H	ØP	I	Legs
262MSV2	96.1" (2442)										
393MSV3	106.1" (2696)	23.7" (601)	38.0" (962)	24.6" (626)	29.9" (760)	12"	46.0" (1168)	12.8" (326)	34.0" (864)	24.0" (611)	4
524MSV4	116.1" (2950)										
147 Elements	A	B	ØC	D	E	F	G	H	ØP	I	Legs
294MSV2	97.1" (2468)										
441MSV3	107.1" (2722)	24.6" (626)	39.8" (1012)	25.0" (636)	29.9" (760)	12"	47.0" (1195)	12.8" (326)	35.9" (914)	25.4" (647)	4
588MSV4	117.1" (2976)										

Ordering Information

36	MSV	2-	304-	3	F	D	A-	C	150-	8	-P	-UM
No. of 10" Equiv.	Product Name	Cartridge Length	Material of Construction	Inlet/Outlet Connection Size	Connection Type	Davit Arm Assembly	Flange Type	Code	Pressure Rating (psig)	Cartridge Type	Option	ASME Stamp
24, 36, 54, 66, 108, 156, 276, ..., 588	MSV	2=20" 3=30" 4=40"	304=304SS 316=316SS 316L=316LSS	3", 4", 6" 8", 10", 12"	F=Flange	Standard	A=ANSI J=JIS D=DIN	NC=None Code C=ASME Code	150	DOE=Double Open End Code 3=222 / Flat Code 8=222 / Fin Code 7=226 / Fin, Bayonet	Blank=None P=Mechanical polished	Blank=None Code U=U Stamp UM=UM Stamp

SDV Series Sanitary Filter Housings



Product Introduction

Filtrafine SDV series sanitary filter housing is an innovative product for food and beverage industry, pharmaceutical industry and any high end industry which requires high purity in fluid. The SDV series is made of 0.25RA electro-polished 316 or 316L stainless steel for durability and ensure optimal cleanability in critical area while maintaining cost effectiveness. The SDV series is available in either single or multiple cartridge housings, also comes in 10" to 40" to meet various needs in your application.

- Manufactured under a certified ISO 9001 quality system
- ASME Code U/UM stamp (optional)

Product Specifications

Materials of Construction

- Head: 316 or 316L Stainless Steel
- Shell: 316 or 316L Stainless Steel
- Leg/Clamp: 304 Stainless Steel
- O-rings: Silicone (standard)
EPDM, Teflon Encapsulated Viton, Viton (optional)

Dimensions

- Inlet/Outlet: 1", 2", 3" Ferrule Ends
- Vent : 1/2" Ferrule End

* If you need over 12 rounds cartridge housing, please contact with your Filtrafine representative.

Performance Specifications

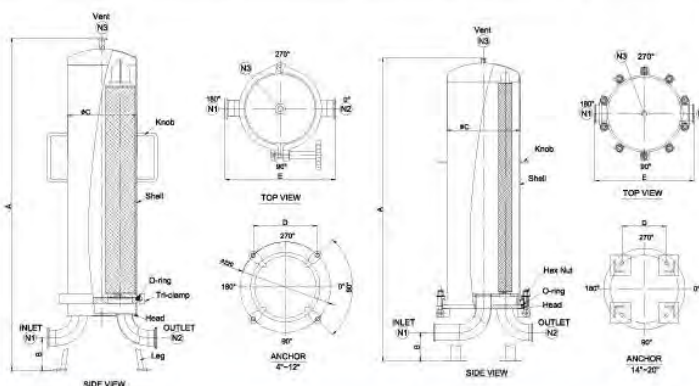
Maximum Operating Pressure

150 psig (10.3 bar) @ 77°F (25°C) in liquid service



Model	No. of Element	Inlet/Outlet Inch (mm)	Dimension Inch (mm)					Maximun Cartridge Diameter Inch (mm)
			A	B	C	D	E	
1SDV1-1	1	1"(25.4)	20"(509)	2.5"(65)	4"(102)	4.1"(105)	7.4"(188)	2.67"(68)
2SDV2-1	1	1"(25.4)	30"(763)					
3SDV3-1	1	1"(25.4)	40"(1017)					
4SDV4-1	1	1"(25.4)	50"(1271)					
3SDV1-1.5	3	1.5"(38.1)	22.4"(570)	3.1"(80)	6"(169)	6.2"(156)	10.6"(268)	2.67"(68)
6SDV2-1.5	3	1.5"(38.1)	32.4"(824)					
9SDV3-1.5	3	1.5"(38.1)	42.4"(1078)					
12SDV4-1.5	3	1.5"(38.1)	52.4"(1332)					
5SDV1-2	5	2"(50.8)	24.2"(617)	3.9"(100)	8"(215)	8.3"(212)	12.8"(324)	2.67"(68)
10SDV2-2	5	2"(50.8)	34.2"(875)					
15SDV3-2	5	2"(50.8)	44.2"(1125)					
20SDV4-2	5	2"(50.8)	54.2"(1379)					
7SDV1-2	7	2"(50.8)	25"(636)	4.0"(101)	9"(237)	10.3"(262)	12.8"(324)	2.67"(68)
14SDV2-2	7	2"(50.8)	35"(890)					
21SDV3-2	7	2"(50.8)	45"(1145)					
28SDV4-2	7	2"(50.8)	55"(1399)					
9SDV1-2.5	9	2.5"(63.5)	27"(686)	4.7"(120)	10"(273)	11.3"(287)	15.7"(400)	2.67"(68)
18SDV2-2.5	9	2.5"(63.5)	37"(940)					
27SDV3-2.5	9	2.5"(63.5)	47"(1194)					
36SDV4-2.5	9	2.5"(63.5)	57"(1448)					

Model	No. of Element	Inlet/Outlet Inch (mm)	Dimension Inch (mm)					Maximun Cartridge Diameter Inch (mm)
			A	B	C	D	E	
12SDV1-3	12	3"(76.2)	28.3"(721)	4.7"(120)	12"(318)	13.6"(346)	17.7"(442)	2.67"(68)
24SDV2-3	12	3"(76.2)	38.3"(975)					
36SDV3-3	12	3"(76.2)	48.3"(1229)					
48SDV4-3	12	3"(76.2)	58.3"(1483)					
18SDV1-3	18	3"(76.2)	30.2"(768)	5.5"(140)	14"(358)	8.7"(215)	20.1"(500)	2.67"(68)
36SDV2-3	18	3"(76.2)	40.2"(1022)					
54SDV3-3	18	3"(76.2)	50.2"(1276)					
72SDV4-3	18	3"(76.2)	60.2"(1530)					
21SDV1-4	21	4"(101)	34.1"(868)	7.8"(200)	16"(406)	9.9"(253)	23.9"(608)	2.67"(68)
42SDV2-4	21	4"(101)	44.1"(1122)					
63SDV3-4	21	4"(101)	54.1"(1376)					
84SDV4-4	21	4"(101)	64.1"(1630)					
28SDV1-4	28	4"(101)	34.6"(880)	7.8"(200)	18"(456)	11.2"(287)	25.5"(644)	2.67"(68)
56SDV2-4	28	4"(101)	44.6"(1134)					
84SDV3-4	28	4"(101)	54.6"(1388)					
112SDV4-4	28	4"(101)	64.6"(1642)					
36SDV1-6	36	6"(152)	38.8"(987)	8.6"(220)	20"(50.8)	12.9"(710)	27.9"(710)	2.67"(68)
72SDV2-6	36	6"(152)	48.8"(1241)					
108SDV3-6	36	6"(152)	58.8"(1495)					
144SDV4-6	36	6"(152)	68.8"(1749)					



Ordering Information

3	SDV	3	S-	1-	CB-	C	150-	7	-UM
No. of 10" Equiv.	Product Name	Cartridge Length	Material of Construction	Inlet/Outlet Connection Size	Tri-Clamp Bracket	Code	Pressure Rating (psig)	Cartridge Type	ASME Stamp
1, 2, 3, 5, 6, 7, 9, 10..., 144	SDV	1=10" 2=20" 3=30" 4=40"	S=316SS SL=316LSS	1=1" 1.5=1.5" 2=2" 2.5=2.5" 3=3"	CB=Tri-Clamp Bracket EB=Eye Bolt Closure	Blank=None Code C=ASME Code	100 150	Code 8=222 / Fin Code 7=226 / Fin, Bayonet	Blank=None Code U=U Stamp UM=UM Stamp

SVS-DOE Series Filter Housings



Product Introduction

Filtrafine SVS-DOE series is single metal cartridge housing which are available in 304 or 316 stainless steel to service a wide range of liquid filtration applications. The SVS-DOE series equips superior T-handle closure design to allow cartridge change-out without any tools. The SVS-DOE self-adjusting sealing design provides positive filter sealing to non-compressible cartridge for wider range of cartridge configuration.

- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Head: 304 Stainless Steel, 316 Stainless Steel
- Shell: 304 Stainless Steel, 316 Stainless Steel
- Mounting Bracket: 304 Stainless Steel
- O-rings: Viton (standard)
EPDM, Teflon Encapsulated Viton (optional)

Dimensions

- Inlet/Outlet: 1/2", 3/4", 1" FNPT
- Vent/Gauge: 1/8" FNPT
- Drain: 1/4" FNPT

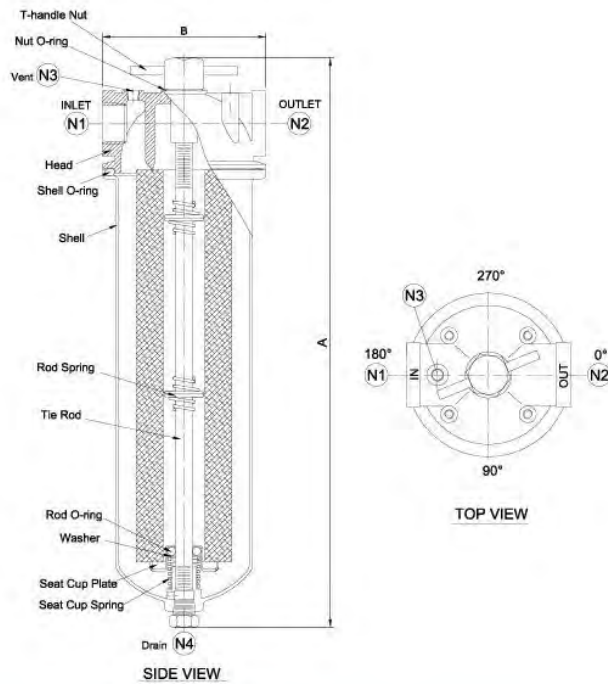
Performance Specifications

Maximum Operating Pressure

175 psid (12.1 bar) @ 77°F (25°C) in liquid service



Model	Max. Liquid Flow Rate gpm (lpm)	Dimension Inch (mm)	
		A	B
SVS4S	4 (15.1lpm)	8.5"(217)	4.2"(106)
SVS10S	10 (37.9lpm)	14.5"(369)	4.2"(106)
SVS20S	20 (75.7lpm)	24.5"(623)	4.2"(106)
SVS30S	30 (113.6lpm)	34.5"(877)	4.2"(106)



Ordering Information

SVS	10	S-	3/4	TN-	DOE
Product Name	Cartridge Length	Material of Construction	Inlet/Outlet Connection Size	Connection Type	Cartridge Type
SVS	4=4" 10=10" 20=20" 30=30"	A=304SS S=316SS	1/2", 3/4", 1"	TN=NPT Thread TP=PT Thread TB=BSP Thread	DOE=Double Open End

TKF Series Filter Housings



Product Introduction

Filtrafine TKF series stainless steel multi-cartridge filter housing provides high quality for many industrial applications, such as chemical filtration, pre-filtration for RO system, food and beverage system, point of use filter and so on. The TKF series is designed with a proven swing eye-bolt closure mechanism to ensure sealing. TKF series filter housing is constructed of 304, 316 or 316L stainless steel material, it gives excellent resistance of corrosion for product purity. TKF series housing is compatible with 3, 5, 7, 9, 12, 18, 22, 28 rounds and 10" to 40" length filter cartridges.

- Extra electro-polish finish for special requirement (optional)
- Manufactured under a certified ISO 9001 quality system
- ASME Code U/UM stamp (optional)

Product Specifications

Materials of Construction

- Head: 304 or 316 Stainless Steel
- Shell: 304 or 316 Stainless Steel
- Swing Eye Bolts: 304 or 316 Stainless Steel
- O-rings: EPDM (standard)
Silicone, Teflon Encapsulated Viton, Viton (optional)

Dimensions

- Inlet/Outlet: 1.5", 2", 3", 4"

O. D. 10" ↓ Shell	O. D. 12" ↑ Shell
Vent: 1/4"	Vent: 3/4"
Drain: 3/4"	Drain: 1 1/2"

- Connection Types: ANSI, JIS, and DIN Flange
NPT, BSP, and PT Thread
- Vent : 1/4" NPT
- Drain: 3/4" NPT
- Gauge : 1/4" NPT

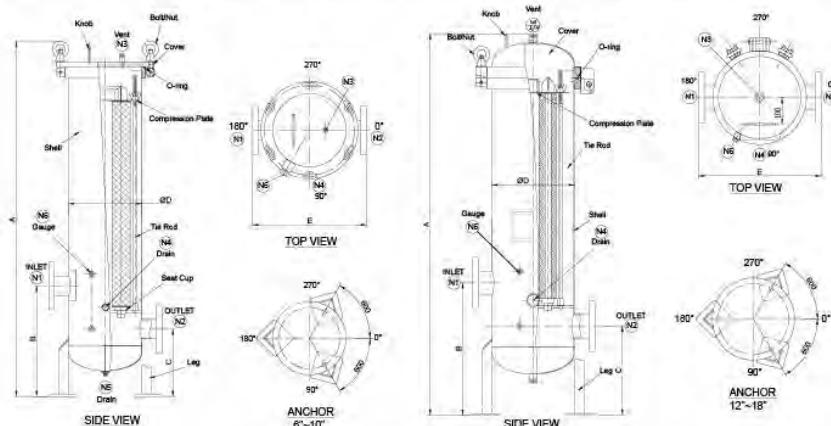
Performance Specifications

Maximum Operating Pressure

150 psig (10.3 bar) @ 77°F (25°C) in liquid service



Model	No. of Element	Max. Liquid Flow Rate gpm(lpm)	Dimension Inch (mm)					Maximum Cartridge Diameter Inch (mm)	Weight lbs(kg)
			A	B	ØC	D	E		
3TKF1-1.5	3	15(57)	27.2"(693)	13.9"(355)	7.87"(200)	6"(168)	12.4"(315)	2.67"(68)	32.6(14.8)
6TKF2-1.5	3	30(114)	37.2"(947)	13.9"(355)	7.87"(200)	6"(168)	12.4"(315)	2.67"(68)	36.2(16.4)
9TKF3-1.5	3	60(171)	47.2"(1201)	13.9"(355)	7.87"(200)	6"(168)	12.4"(315)	2.67"(68)	39.5(17.9)
5TKF1-2	5	25(95)	29.5"(751)	15.9"(405)	9.84"(250)	8"(219)	14.4"(368)	2.67"(68)	48.5(22)
10TKF2-2	5	50(190)	39.5"(1005)	15.9"(405)	9.84"(250)	8"(219)	14.4"(368)	2.67"(68)	53.4(24.2)
15TKF3-2	5	75(285)	49.5"(1259)	15.9"(405)	9.84"(250)	8"(219)	14.4"(368)	2.67"(68)	60.0(27.2)
20TKF4-2	5	100(380)	59.5"(1513)	15.9"(405)	9.84"(250)	8"(219)	14.4"(368)	2.67"(68)	64.8(29.4)
7TKF1-2	7	35(133)	33.3"(848)	18.8"(480)	12.7"(325)	9"(233)	14.9"(380)	2.67"(68)	56.4(25.6)
14TKF2-2	7	70(266)	43.3"(1102)	18.8"(480)	12.7"(325)	9"(233)	14.9"(380)	2.67"(68)	61.9(28.1)
21TKF3-2	7	100(399)	53.3"(1356)	18.8"(480)	12.7"(325)	9"(233)	14.9"(380)	2.67"(68)	68.3(31)
28TKF4-2	7	125(532)	63.3"(1610)	18.8"(480)	12.7"(325)	9"(233)	14.9"(380)	2.67"(68)	73.9(33.5)
27TKF3-2.5	9	135(513)	51.8"(1316)	16.1"(410)	9.84"(250)	10"(272)	16.6"(422)	2.67"(68)	90.6(41.1)
36TKF4-2.5	9	180(684)	61.8"(1570)	16.1"(410)	9.84"(250)	10"(272)	16.6"(422)	2.67"(68)	98.1(44.5)
24TKF2-3	12	120(456)	42.4"(1078)	19.2"(490)	13"(330)	12"(305)	18"(455)	2.67"(68)	104.1(47.2)
36TKF3-3	12	180(684)	52.4"(1332)	19.2"(490)	13"(330)	12"(305)	18"(455)	2.67"(68)	112.7(51.1)
48TKF4-3	12	240(912)	62.4"(1586)	19.2"(490)	13"(330)	12"(305)	18"(455)	2.67"(68)	121.3(55)
36TKF2-3	18	180(684)	47.3"(1203)	21"(535)	13.7"(350)	14"(355)	19.8"(504)	2.67"(68)	121.5(55.1)
54TKF3-3	18	270(1026)	57.3"(1457)	21"(535)	13.7"(350)	14"(355)	19.8"(504)	2.67"(68)	131.0(59.4)
72TKF4-3	18	360(1368)	67.3"(1711)	21"(535)	13.7"(350)	14"(355)	19.8"(504)	2.67"(68)	140.7(63.8)
44TKF2-4	22	220(836)	49.8"(1266)	15.3"(390)	9.1"(230)	16"(406)	21.8"(556)	2.67"(68)	159.0(72.1)
66TKF3-4	22	330(1254)	59.8"(1520)	15.3"(390)	9.1"(230)	16"(406)	21.8"(556)	2.67"(68)	172.8(78.4)
88TKF4-4	22	440(1672)	69.8"(1774)	15.3"(390)	9.1"(230)	16"(406)	21.8"(556)	2.67"(68)	186.5(84.6)
56TKF2-4	28	280(1064)	50.5"(1284)	24.6"(625)	15.7"(400)	18"(456)	23.8"(606)	2.67"(68)	192.2(87.2)
84TKF3-4	28	420(1596)	60.5"(1538)	24.6"(625)	15.7"(400)	18"(456)	23.8"(606)	2.67"(68)	207.9(94.3)
112TKF4-4	28	560(2128)	70.5"(1792)	24.6"(625)	15.7"(400)	18"(456)	23.8"(606)	2.67"(68)	223.3(101.3)



Ordering Information

14	TKF	2	A-	2	FA-	C	150-	3	-EP	-UM
No. of 10" Equiv.	Product Name	Cartridge Length	Material of Construction	Inlet/Outlet Connection Size	Connection Type	Code	Pressure Rating (psig)	Cartridge Type	Option	ASME Stamp
3~112	TKF	1=10" 2=20" 3=30" 4=40"	A=304SS S=316SS SL=316LSS	1.5", 2", 3", 4"	FA=ANSI Flange FJ=JIS Flange FD=DIN Flange TN=NPT Thread TP=PT Thread TB=BSP Thread	Blank=None Code C=ASME Code	Blank=None 150	DOE=Double Open End Code 3=222 / Flat Code 8=222 / Fin Code 7=226 / Fin, Bayonet	Blank=None Code EP=Electro-polished P=Mechanical polished	Blank=None Code U=U Stamp UM=UM Stamp

TKV Series Filter Housings



Product Introduction

Filtrafine TKV series stainless steel multi-cartridge filter housing provides high level performance for many industrial applications, such as pre-filtration for RO system, food and beverage system, post treatments and so on. TKV series filter housing is constructed of 304, 316 or 316L stainless steel material, it gives excellent resistance to corrosive for product purity. The innovative sealing system offers quick and easy cartridge replacement. TKV series housing is compatible with 3, 5, 7, 9, 12 rounds and 10" to 40" length filter cartridges.

- Extra electro-polish finish for special requirement (optional)
- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Head: 304 or 316 Stainless Steel
- Shell: 304 or 316 Stainless Steel
- Vent Cap: 304 or 316 Stainless Steel
- Drain Plug: 304 or 316 Stainless Steel
- Bottom Seat Cup Plate: 304 or 316 Stainless Steel
- Internal Components: 304 or 316 Stainless Steel
- O-rings: EPDM (standard)
Silicone, Teflon Encapsulated Viton, Viton (optional)

Dimensions

- Inlet/Outlet: 1.5", 2", 2.5", 3"
- Vent : 1/4" NPT
- Drain: 3/4" NPT
- Connection Types: ANSI, JIS, and DIN Flange
NPT, BSP, and PT Thread

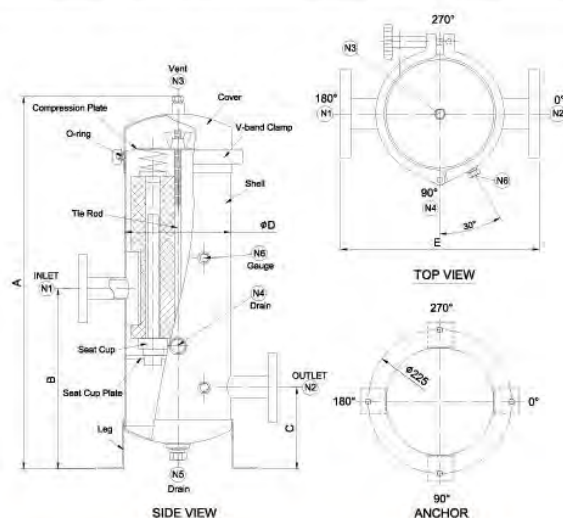
Performance Specifications

Maximum Operating Pressure

150 psig (10.3 bar) @ 77°F (25°C) in liquid service
(TKV Series housings are not recommend for gas service)



Model	No. of Element	Max. Liquid Flow Rate gpm (lpm)	Dimension Inch (mm)					Maximum Cartridge Diameter Inch (mm)	Weight lbs (kg)
			A	B	ØC	D	E		
3TKV1-1.5	3	15(57)	23.0"(584)	11.1"(283)	5.0"(128)	6"(165)	12.2"(312)	2.67"(68)	21.8"(9.9)
6TKV2-1.5	3	30(114)	33.0"(838)	11.1"(283)	5.0"(128)	6"(165)	12.2"(312)	2.67"(68)	27.3"(12.4)
9TKV3-1.5	3	60(171)	43.0"(1092)	11.1"(283)	5.0"(128)	6"(165)	12.2"(312)	2.67"(68)	33.1"(15)
12TKV4-1.5	3	120(228)	52.9"(1346)	11.1"(283)	5.0"(128)	6"(165)	12.2"(312)	2.67"(68)	38.7"(17.5)
5TKV1-2	5	25(95)	23.5"(598)	11.1"(283)	5.0"(128)	8"(210)	14.0"(356)	2.67"(68)	33.1"(15)
10TKV2-2	5	50(190)	33.5"(852)	11.1"(283)	5.0"(128)	8"(210)	14.0"(356)	2.67"(68)	39.2"(17.8)
15TKV3-2	5	75(285)	43.5"(1106)	11.1"(283)	5.0"(128)	8"(210)	14.0"(356)	2.67"(68)	45.4"(20.6)
20TKV4-2	5	100(380)	53.9"(1370)	11.1"(283)	5.0"(128)	8"(210)	14.0"(356)	2.67"(68)	53.1"(24.1)
7TKV1-2	7	35(133)	23.9"(607)	11.1"(283)	5.0"(128)	9"(232)	14.8"(378)	2.67"(68)	34.2"(15.5)
14TKV2-2	7	70(266)	33.9"(861)	11.1"(283)	5.0"(128)	9"(232)	14.8"(378)	2.67"(68)	39.9"(18.1)
21TKV3-2	7	100(375)	43.9"(1115)	11.1"(283)	5.0"(128)	9"(232)	14.8"(378)	2.67"(68)	46.1"(20.9)
28TKV4-2	7	125(470)	54.3"(1379)	11.1"(283)	5.0"(128)	9"(232)	14.8"(378)	2.67"(68)	53.8"(24.4)
9TKV1-2.5	9	70(266)	27.8"(708)	14.6"(370)	7.9"(200)	10"(268)	16.3"(416)	2.67"(68)	33.3"(15.1)
18TKV2-2.5	9	100(375)	37.8"(962)	14.6"(370)	7.9"(200)	10"(268)	16.3"(416)	2.67"(68)	41.0"(18.6)
27TKV3-2.5	9	135(513)	47.8"(1216)	14.6"(370)	7.9"(200)	10"(268)	16.3"(416)	2.67"(68)	48.7"(22.1)
36TKV4-2.5	9	180(684)	58.2"(1480)	14.6"(370)	7.9"(200)	10"(268)	16.3"(416)	2.67"(68)	56.4"(25.6)
12TKV1-3	12	135(580)	27.6"(702)	14.6"(370)	7.9"(200)	12"(312)	18.1"(460)	2.67"(68)	43.0"(19.5)
24TKV2-3	12	165(625)	37.6"(956)	14.6"(370)	7.9"(200)	12"(312)	18.1"(460)	2.67"(68)	48.5"(22)
36TKV3-3	12	210(794)	47.6"(1210)	14.6"(370)	7.9"(200)	12"(312)	18.1"(460)	2.67"(68)	54.0"(24.5)
48TKV4-3	12	240(912)	58.0"(1474)	14.6"(370)	7.9"(200)	12"(312)	18.1"(460)	2.67"(68)	59.5"(27)



Ordering Information

14	TKV	2	A-	2	FA-	3	-EP
No. of 10" Equiv.	Product Name	Cartridge Length	Material of Construction	Inlet/Outlet Connection Size	Connection Type	Cartridge Type	Option
3-48	TKV	1=10" 2=20" 3=30" 4=40"	A=304SS S=316SS SL=316LSS	1.5", 2", 2.5", 3"	FA=ANSI Flange FJ=JIS Flange FD=DIN Flange TN=NPT Thread TP=PT Thread TB=BSP Thread	DOE=Double Open End Code 3=222 / Flat Code 8=222 / Fin Code 7=226 / Fin, Bayonet	Blank=None EP=Electro-polished P=Mechanical polished

Top-Flow Series Filter Housings



Product Introduction

Filtrafine Top-Flow series filter housing is compatible with Filtrafine Mega-Flow series filter cartridge, and performs high flow service for TFT-LCD glass cleaning and high end process filtration applications. Its 100% virgin polypropylene material is suitable for ultrafiltration. Optional transparent PC (Polycarbonate) housing shell is available for user special requirements. Top-Flow series housing offers JIS 25A and JIS 40A Union inlet/outlet connections assure high flow needs.

- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Head: Pure Virgin Polypropylene – No Talc, Fillers, Plasticizers, Lubricants
- Bowl: Pure Virgin Polypropylene – No Talc, Fillers, Plasticizers, Lubricants (standard)
PC-Polycarbonate (optional)
- O-rings: Viton (standard)
EPDM, Teflon Encapsulated Viton (optional)

Dimensions

- Inlet/Outlet: JIS 25A, 40A Union
- Vent/Gauge: 1/4" PT
- Drain: 1/4" PT

Performance Specifications

Maximum Operating Pressure

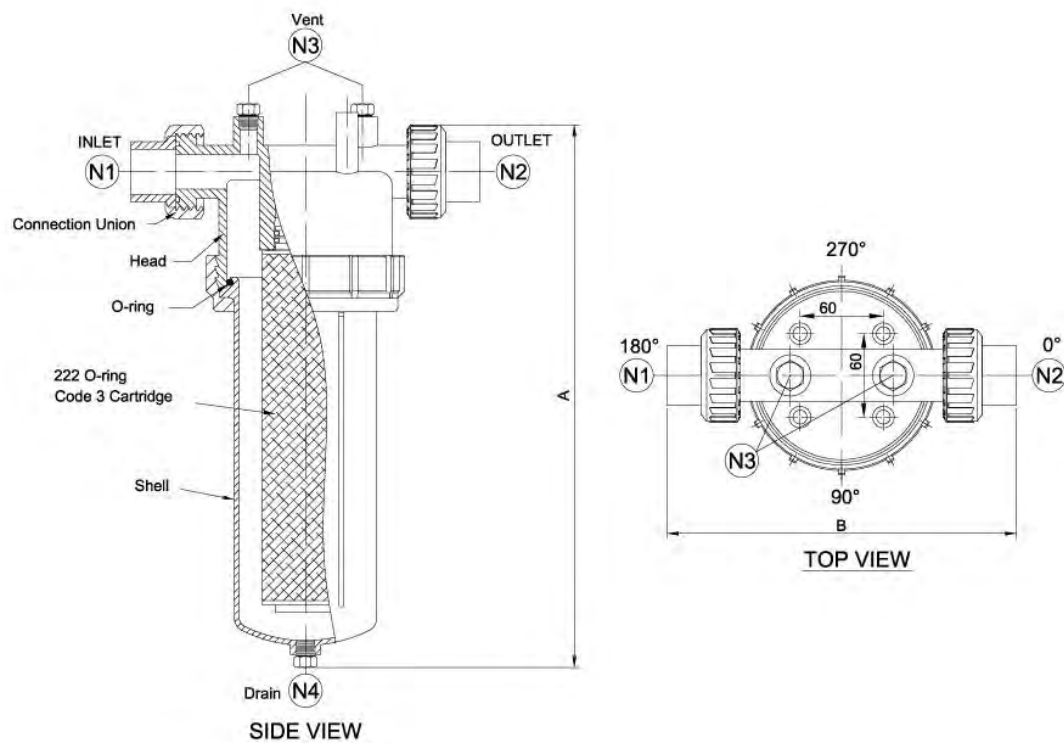
72 psig (5 bar) @ 77°F (25°C) in liquid service

FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.



Model	Max. Liquid Flow Rate gpm (lpm)	Dimension Inch (mm)		Weight lbs (kg)
		A	B	
TFT10-25A-3	20 (75.5lpm)	15"(380mm)	9.8"(250mm)	2.3lbs (1.1kg)
TFT10-40A-6	30 (113.6lpm)	15.5"(394.5mm)	10.3"(261.9mm)	3.4lbs (1.5kg)



Ordering Information

TFT	10-	25A-	3
Product Name	Cartridge Length	Inlet/Outlet Connection Size	Cartridge Type
TFT	10=10"	25A=1" Union	Code 3=222 / Flat
		40A=1 1/2" Union	Code 6=226 / Flat

MSB Series Multi-Bag Filter Housings



Product Introduction

Filtrafine MSB series stainless steel multi-bags filter housing provides high-volume solutions for high flow applications. The MSB series housing is available to accommodate 2 to 12 bags and size 1 or size 2 length filter bags. The MSB series is designed with a proven swing eye bolt closure mechanism to ensure sealing. It provides user friendly davit arm assisted, spring assisted cover or hydraulic assisted cover lifting mechanism to eliminate the tool needs while filter bag change-out. MSB series filter housing is constructed of 304, 316 or 316L stainless steel material which gives excellent resistance of corrosion for product purity.

- Manufactured under a certified ISO 9001 quality system
- ASME Code UU/M stamp (optional)

Product Specifications

Materials of Construction

- Shell: 304, 316 or 316L Stainless Steel
- Legs/swing Eye Bolts: 304 Stainless Steel
- O-rings: EPDM (standard)
Silicone, Teflon Encapsulated Viton,
Viton (optional)

Dimensions

- Inlet/Outlet: 3", 4", 5", 6", 8", 10", 12"
- Connection Types: ANSI, JIS, and DIN Flange
NPT, BSP and PT Thread
- Vent : 1" NPT
- Drain : 1" NPT
- Gauge: 1/4" NPT

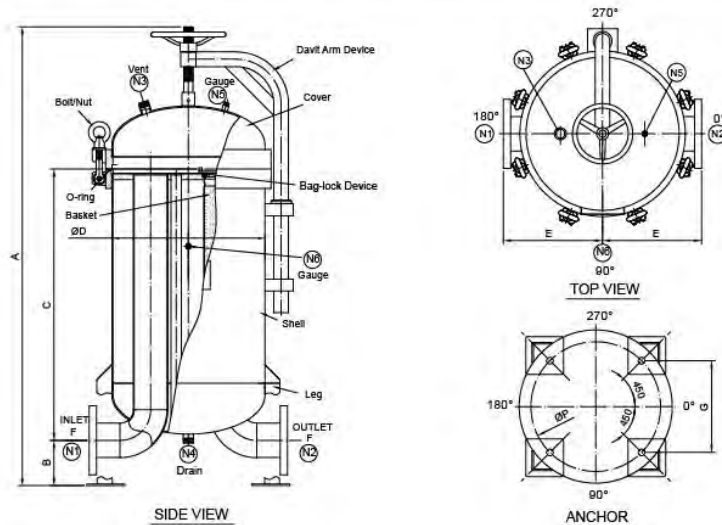
Performance Specifications

Maximum Operating Pressure

150 psig (10.3 bar) @ 77°F (25°C) in liquid service



Model	Max. Liquid Flow Rate gpm(m ³ /hr)	Dimension Inch (mm)							
		A	B	C	ØD	E	F	G	ØP
2MSB1	175(40)	41.7"(1061)	5.1"(130)	19.8"(505)	18"(456)	11.9"(303)	3"	11.5"(293)	16.3"(415)
3MSB1	260(60)	46.1"(1171)	5.9"(150)	21.6"(550)	20"(508)	12.9"(329)	4"	12"(304)	16.9"(430)
4MSB1	350(80)	46.8"(1191)	5.9"(150)	21.7"(553)	22"(558)	13.9"(354)	4"	13.4"(340)	18.9"(481)
5MSB1	440(100)	54.3"(1381)	6.8"(175)	27.5"(700)	24"(608)	15.9"(404)	6"	14.8"(376)	20.9"(531)
6MSB1	525(120)	51.5"(1309)	6.8"(175)	24"(610)	26"(658)	16.8"(429)	6"	16.2"(411)	22.9"(581)
8MSB1	700(160)	57.8"(1470)	8.2"(210)	26.8"(683)	32"(810)	19.8"(505)	8"	20.9"(530)	29.5"(750)
10MSB1	880(200)	66"(1677)	9.8"(250)	29.3"(745)	36"(912)	22.6"(576)	10"	22.6"(575)	32"(813)
12MSB1	1050(240)	69.4"(1765)	11.2"(285)	30.7"(780)	38"(962)	26"(661)	12"	24.1"(611)	34"(864)
2MSB2	350(80)	57.4"(1458)	5.1"(130)	34.8"(885)	18"(456)	11.9"(303)	3"	11.5"(293)	16.3"(415)
3MSB2	525(120)	59.8"(1521)	5.9"(150)	35.4"(900)	20"(508)	12.9"(329)	4"	12"(304)	16.9"(430)
4MSB2	705(160)	60.7"(1542)	5.9"(150)	35.5"(903)	22"(558)	13.9"(354)	4"	13.4"(340)	18.9"(481)
5MSB2	880(200)	68.1"(1731)	6.8"(175)	41.3"(1050)	24"(608)	15.9"(404)	6"	14.8"(376)	20.9"(531)
6MSB2	1055(240)	65.3"(1659)	6.8"(175)	37.8"(960)	26"(658)	16.8"(429)	6"	16.2"(411)	22.9"(581)
8MSB2	1405(320)	71.6"(1820)	8.2"(210)	40.6"(1033)	32"(810)	19.8"(505)	8"	20.9"(530)	29.5"(750)
10MSB2	1760(400)	79.8"(2027)	9.8"(250)	43.1"(1095)	36"(912)	22.6"(576)	10"	22.6"(575)	32"(813)
12MSB2	2110(480)	83.2"(2115)	11.2"(285)	44.4"(1130)	38"(962)	26"(661)	12"	24.1"(611)	34"(864)



Ordering Information

3	MSB	2-	304-	4	F	D	A-	C	150	-P	-U
Number of Element	Product Name	Bag Size	Material of Construction	Inlet/Outlet Connection Size	Connection Type	Lid Lifting	Flange Type	Code	Pressure Rating (psig)	Option	ASME Stamp
2, 3, 4, 5, 6, 8, 10, 12	MSB	1=01 2=02	304=304SS 316=316SS 316L=316LSS	3"~12"	F=Flange	S=Spring Assisted D=Davit Arm Assisted H=Hydraulic Assisted	A=ANSI J=JIS D=DIN	NC=None Code C=ASME Code	150	Blank=None P=Mechanical polished	Blank=None U=U Stamp UM=UM Stamp

MQB Series Rapid Open Multi-Bag Filter Housings



Product Introduction



Filtrafine MQB series stainless steel multi-bags filter housing provides high-volume solutions for high flow applications. The MQB series housing is available to accommodate 3 to 12 bags and size 1 or size 2 length filter bags. The MQB series is designed with a proven swing eye bolt closure mechanism to ensure sealing. It offers innovative rapid open cover lifting mechanism to provide quick and easy filter bags replacement, especially for the process which requires frequent change-out. User friendly low profile housing design allows installation in confined spaces and eliminates the need of ladder, tool and catwalk. MQB series filter housing is constructed of 304, 316 or 316L stainless steel material which gives excellent resistance of corrosion for product purity.

- Manufactured under a certified ISO 9001 quality system
- ASME Code U stamp (optional)

Product Specifications

Materials of Construction

- Shell: 304, 316 or 316L Stainless Steel
- Legs/swing Eye Bolts: 304 Stainless Steel
- O-rings: EPDM (standard)
Silicone, Teflon Encapsulated Viton,
Viton (optional)

Dimensions

- Inlet/Outlet: 4", 6", 8", 10"
- Connection Types: ANSI, JIS, and DIN Flange
- Vent : 1" NPT
- Drain : 1" NPT
- Gauge : 1/4" NPT

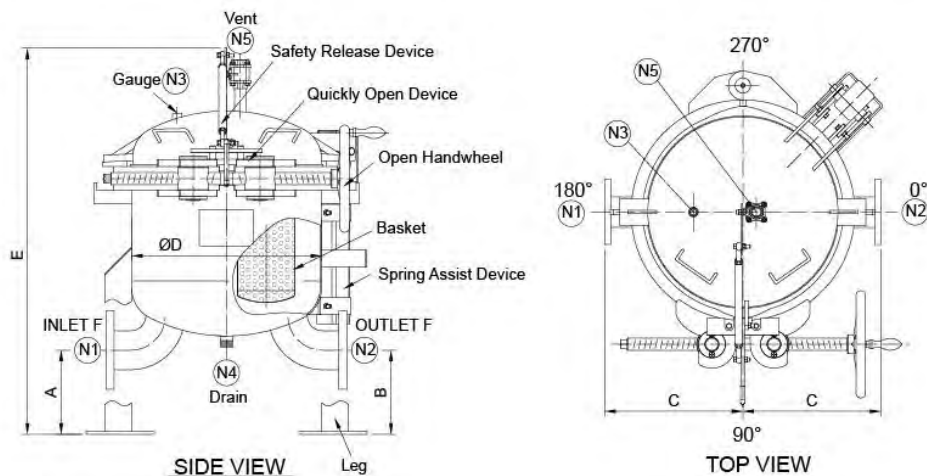
Performance Specifications

Maximum Operating Pressure

150 psig (10.3 bar) @ 77°F (25°C) in liquid service



Model	Dimension Inch (mm)					
	A	B	C	Ø D	E	F
3MQB1	11.8"(300)	11.8"(300)	13.9"(354)	22"(558)	43.5"(1105)	4"
4MQB1						
5MQB1						
6MQB1						
7MQB1	14.0"(355)	14.0"(355)	21.9"(556)	32"(810)	53.3"(1355)	8"
8MQB1						
10MQB1						
12MQB1						
3MQB2	6.1"(155)	6.1"(155)	13.9"(354)	22"(558)	52.2"(1325)	4"
4MQB2						
5MQB2						
6MQB2						
7MQB2	8.5"(215)	8.5"(215)	21.9"(556)	32"(810)	62.2"(1580)	8"
8MQB2						
10MQB2						
12MQB2						



Ordering Information

3	MQB	2-	316L-	4	F	S	A-	C	150	-P	-U
Number of Element	Product Name	Bag Size	Material of Construction	Inlet/Outlet Connection Size	Connection Type	Lid Lifting	Flange Type	Code	Pressure Rating (psig)	Option	ASME Stamp
3, 4, 5, 6, 8, 10, 12	MQB	1=01 2=02	304=304SS 316=316SS 316L=316LSS	4", 6" 8", 10"	F=Flange	S=Spring Assisted	A=ANSI J=JIS D=DIN	NC=None Code C=ASME Code	150	Blank=None P=Mechanical polished	Blank=None U=U Stamp

MFB Series Multi-Bag Filter Housings



Product Introduction

Filtrafine MFB series stainless steel multi-bags filter housing provides high-volume solutions for high flow applications. The MFB series housing is available to accommodate 2 to 15 bags and size 1 or size 2 length filter bags to handle up to 880m³/hr per housing. Economical side-in and side-out connection and low profile design meet user various installation requirements. The MFB series is designed with a proven swing eye bolt closure mechanism to ensure sealing and provides user friendly davit arm assisted, spring assisted cover or hydraulic assisted cover lifting mechanism to eliminate the tool needs while filter bag change-out. MFB series filter housing is constructed of 304, 316 or 316L stainless steel material which gives excellent resistance of corrosion for product purity.

- Manufactured under a certified ISO 9001 quality system
- ASME Code U stamp (optional)

Product Specifications

Materials of Construction

- Shell: 304, 316 or 316L Stainless Steel
- Legs/swing Eye Bolts: 304 Stainless Steel
- O-rings: EPDM (standard)
Silicone, Teflon Encapsulated Viton,
Viton (optional)

Dimensions

- Inlet/Outlet: 3", 4", 5", 6", 8", 10", 12"
- Connection Types: ANSI, JIS, and DIN Flange
- Vent : 1" NPT
- Drain : 1" NPT
- Gauge : 1/4" NPT

Performance Specifications

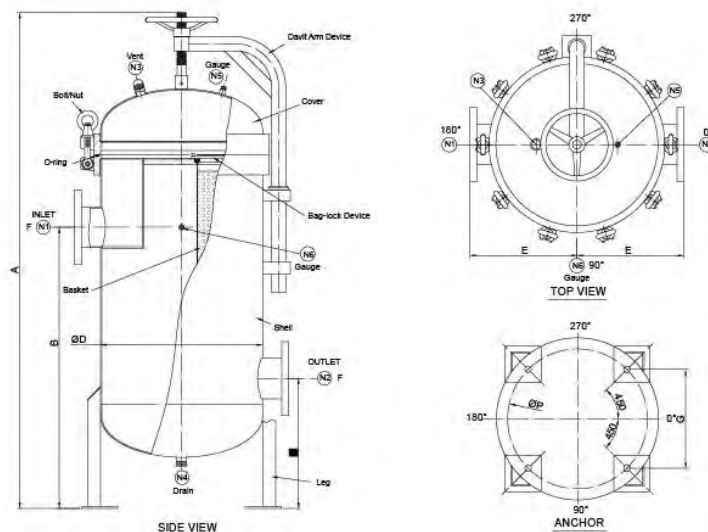
Maximum Operating Pressure

150 psig (10.3 bar) @ 77°F (25°C) in liquid service



Model	Dimension Inch (mm)							
	A	B	C	ØD	E	F	G	ØP
2MFB2	58"(1475)	31.3"(797)	15.6"(397)	18"(456)	12.1"(308)	3"	11.5"(293)	16.3"(415)
3MFB2	65.4"(1663)	37"(942)	16.6"(422)	20"(508)	13.1"(334)	4"	12"(304)	16.9"(430)
4MFB2	67.1"(1706)	38"(967)	17.6"(447)	22"(558)	14.5"(369)	5"	13.4"(340)	18.9"(481)
5MFB2	69.2"(1759)	39.4"(1003)	18.6"(473)	24"(608)	15.5"(394)	6"	14.8"(376)	20.9"(531)
6MFB2	70.4"(1789)	39.9"(1015)	19"(485)	26"(658)	16.5"(419)	6"	16.2"(411)	22.9"(582)
7MFB2	73.6"(1870)	40.2"(1023)	20.5"(523)	28"(710)	17.9"(455)	8"	18.1"(460)	25.6"(650)
8MFB2	74.8"(1900)	40.7"(1036)	21.1"(536)	30"(760)	18.9"(480)	8"	19.5"(495)	27.6"(700)
9MFB2	75.7"(1925)	41.2"(1048)	21.5"(548)	32"(810)	19.8"(505)	8"	20.9"(530)	29.5"(750)
11MFB2	78.7"(2001)	41.5"(1056)	23"(586)	34"(860)	21.2"(540)	10"	22.2"(565)	31.5"(799)
12MFB2	82.7"(2101)	42"(1069)	23.5"(599)	36"(912)	22.2"(566)	10"	22.6"(575)	32"(814)
13MFB2	85.6"(2176)	42.4"(1077)	25"(637)	38"(962)	24"(612)	12"	24.1"(611)	34"(864)
15MFB2	86.8"(2206)	42.8"(1089)	25.5"(649)	40"(1012)	25"(637)	12"	25.5"(647)	36"(914)

* For size 1 requirement, please contact your Filtrafine representative.



Ordering Information

Number of Element	Product Name	Bag Size	Material of Construction	Inlet/Outlet Connection Size	Connection Type	Davit Arm Assembly	Flange Type	Code	Pressure Rating (psig)	Option	ASME Stamp
2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 15	MFB	1=01 2=02	304=304SS 316=316SS 316L=316LSS	3", 4", 5", 6", 8", 10", 12"	F=Flange	Standard	A=ANSI J=JIS D=DIN	NC=None Code C=ASME Code	150	Blank=None P=Mechanical polished	Blank=None U=U Stamp

FSB Top Entry Series Single Bag Filter Housings



Product Introduction

Filtrafine FSB-T series top entry stainless steel single bag filter housing provides an economical filtration option with a wide range of applications such as RO Pre-filtration, waste water treatment, food and beverage and so on. The top inlet promotes more uniform flow rate delivering improved filtration results and its double o-rings sealing system enhances better sealing solution. The FSB-T series is designed with a proven swing eye bolt closure mechanism to ensure sealing. FSB-T series filter housing is constructed of 304, 316 or 316L stainless steel material and its fine finish gives excellent resistance of corrosion for product purity. FSB-T series has adjustable lags which provide flexibility for installation orientation and height.

- Extra electro-polish finish for special requirement (optional)
- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Head: 304 or 316 Stainless Steel
- Shell: 304 or 316 Stainless Steel
- Internal Components: 304 or 316 Stainless Steel
- Shell O-rings: EPDM (standard)
Silicone, Teflon Encapsulated Viton, Viton (optional)

Dimensions

- Inlet/Outlet:
1" for Size 3 and Size 4 Housing
2" for Size 1 and Size 2 Housing
- Connection Types: ANSI, JIS, and DIN Flange
NPT, BSP and PT Thread
- Vent : 1/4" NPT

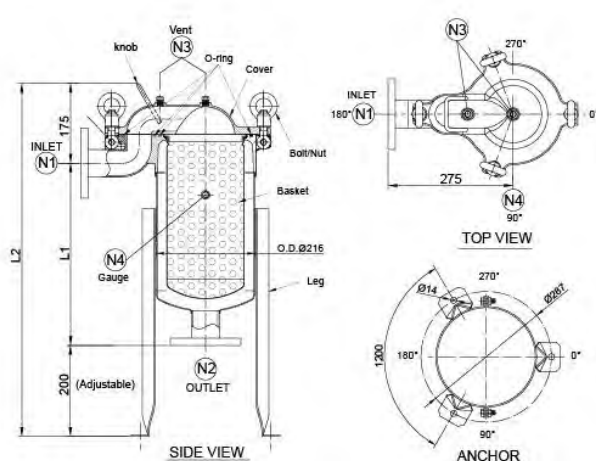
Performance Specifications

Maximum Operating Pressure

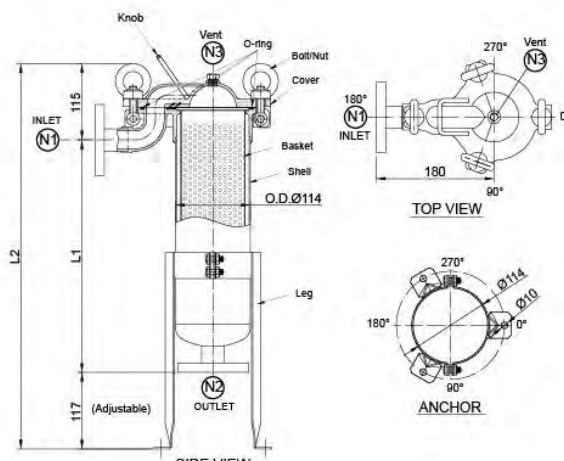
150 psig (10.3 bar) @ 77°F (25°C) in liquid service



Model	Max. Liquid Flow Rate gpm (m ³ / hr)	Dimension	
		L1 Inch (mm)	L2 Inch (mm)
FSB1-T-2	90(20)	15.7"(401)	30.5"(776)
FSB2-T-2	180(40)	30.1"(766)	44.9"(1141)
FSB3-T-1	25(5.5)	7.9"(201)	19.3"(491)
FSB4-T-1	50(11)	14"(356)	25.4"(646)



Size 1 & Size 2 Bag Filter Housing



Size 3 & Size 4 Bag Filter Housing

Ordering Information

FSB	2	A-	T-	2	FA	-EP
Product Name	Bag Size	Material of Construction	Bag Housing Type	Inlet/Outlet Connection Size	Connection Type	Option
FSB	1=01 2=02 3=03 4=04	A=304SS S=316SS	T=Top-Entry	1", 2"	FA=ANSI Flange FJ=JIS Flange FD=DIN Flange TN=NPT Thread TP=PT Thread TB=BSP Thread	EP=Electro-polished

FSB Side Entry Series Single Bag Filter Housings



Product Introduction

Filtrafine FSB-S series side entry stainless steel single bag filter housing provides economical filtration options with a wide range of applications, such as RO pre-filtration, waste water treatment, food and beverage and so on. The side inlet promotes more uniform flow rate delivering that improves filtration results. The FSB-S series is designed with a proven swing eye bolt closure mechanism to ensure sealing. FSB-S series filter housing is constructed of 304, 316 or 316L stainless steel material and its fine finish gives excellent resistance of corrosion for product purity. FSB-S series has adjustable lags which provides flexibility for installation orientation and height.

- Extra electro-polish finish for special requirement (optional)
- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Head: 304 or 316 Stainless Steel
- Shell: 304 or 316 Stainless Steel
- Internal Components: 304 or 316 Stainless Steel
- O-rings: EPDM (standard)
Silicone, Teflon Encapsulated Viton, Viton (optional)

Dimensions

- Inlet/Outlet: 2"
- Connection Types: ANSI, JIS, and DIN Flange
NPT, BSP and PT Thread
- Vent : 1/4" NPT
- Gauge: 1/4" NPT

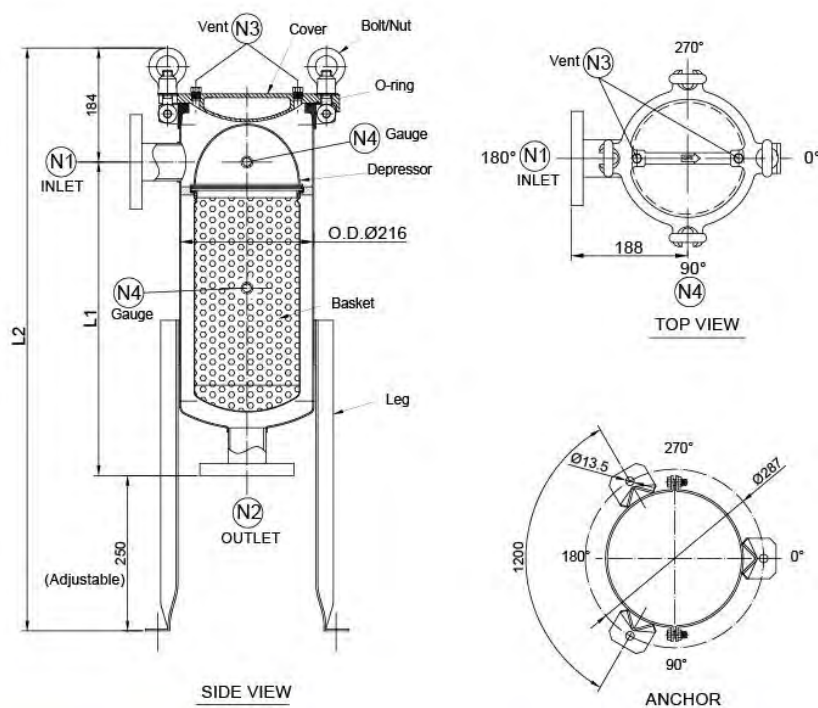
Performance Specifications

Maximum Operating Pressure

150 psig (10.3 bar) @ 77°F (25°C) in liquid service



Model	Max. Liquid Flow Rate gpm (m ³ / hr)	Dimension	
		L1 Inch (mm)	L2 Inch (mm)
FSB1-S	90 (20)	19.9" (505)	36.9" (939)
FSB2-S	180 (40)	34.3" (870)	51.3" (1304)



Ordering Information

FSB	2	A-	S-	2	FA	-EP
Product Name	Bag Size	Material of Construction	Bag Housing Type	Inlet/Outlet Connection Size	Connection Type	Option
FSB	1=01 2=02	A=304SS S=316SS	S=Side-Entry	2"	FA=ANSI Flange FJ=JIS Flange FD=DIN Flange TN=NPT Thread TP=PT Thread TB=BSP Thread	EP=Electro-polished

FSB Side Entry M Series Single Bag Filter Housings



Product Introduction



Filtrafine FSB-M series side entry stainless steel single bag filter housing provide an economical filtration option with a wide range of application such as RO Pre-filtration, waste water treatment, food and beverage and so on. The side inlet promotes uniform flow rate delivering that improves filtration results. And its machine cutting cover could be customized to meet clients' various high pressure demands. The FSB-M series is designed with a proven swing eye bolt closure mechanism to ensure sealing. FSB-M series filter housings are constructed of 304, 316 or 316L stainless steel material and its fine finish gives excellent resistance of corrosion for product purity. FSB-M series has adjustable lags which provide flexibility for installation orientation and height.

- Extra electro-polish finish for special requirement (optional)
- Manufactured under a certified ISO 9001 quality system
- ASME Code UM stamp (optional)

Product Specifications

Materials of Construction

- Head: 304 or 316 Stainless Steel
- Shell: 304 or 316 Stainless Steel
- Internal Components: 304 or 316 Stainless Steel
- O-rings: EPDM (standard)
Silicone, Teflon Encapsulated Viton,
Viton (optional)

Dimensions

- Inlet/Outlet: 2", 3"
- Connection Types: ANSI, JIS, and DIN Flange
NPT, BSP and PT Thread
- Vent : 1/4" NPT
- Gauge: 1/4" NPT

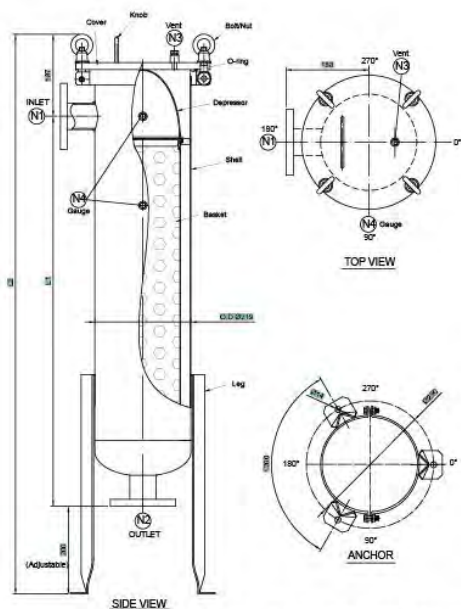
Performance Specifications

Maximum Operating Pressure

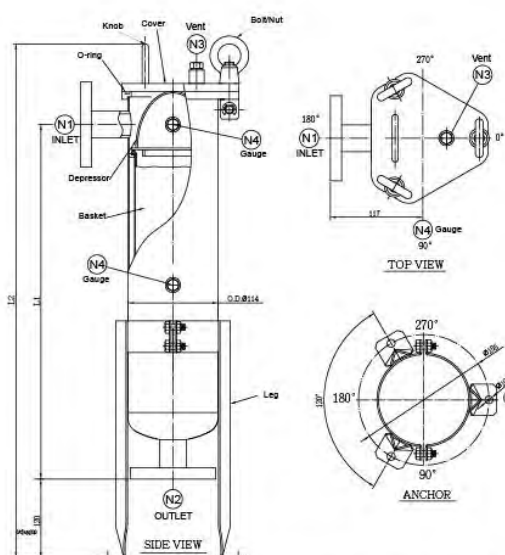
150 psig (10.3 bar) @ 77°F (25°C) in liquid service



Model	Max. Liquid Flow Rate gpm (m ³ / hr)	Dimension	
		L1 Inch (mm)	L2 Inch (mm)
FSB1-M	90(20)	19.8"(505)	33"(840)
FSB2-M	180(40)	35"(889)	50.1"(1275)
FSB3-M	25(5.5)	19.3"(492)	11.4"(840)
FSB4-M	50(11)	25.5"(650)	17.6"(448)



Size 1 & Size2 Bag Filter Housing



Size 3 & Size4 Bag Filter Housing

Ordering Information

Product Name	Bag Size	Material of Construction	Bag Housing Type	Inlet/Outlet Connection Size	Connection Type	Code	Pressure Rating (psig)	Option	ASME Stamp
FSB	1-01 2-02	A=304SS S=316SS	M=Machine Cutting Head Side Entry	2" 3"	FA=ANSI Flange FJ=JIS Flange FD=DIN Flange TN=NPT Thread TP=PT Thread TB=BSP Thread	Blank=None Code C=ASME Code	Blank=None Code 100 150	Blank=None EP=Electro-polished	Blank=None Code UM=UM Stamp

Duo-Bag Series Filter Bags



Product Introduction

The innovative Duo-Bag series filter bags offer a highly elegant design to substantially increase the capacity of the filter bag. The unique design of Duo-Bag series filter bags provide larger surface area than typical filter bags, which allows the fluid flowing between the inner and outer media cylinders. Duo-Bag series can easily retrofit most standard bag filter housings. To take advantage of Duo-Bag series in applications where filter bag housings are currently in use, end-users can simply remove the existing bag basket as well as replace it with a Duo-Bag basket and a Duo-Bag filter bag.

- Support basket which exclusively for PPDB must be needed for installation.
- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Filter Media: Needle Felt Polypropylene, Needle Felt Polyester
- Ring: Polypropylene, 304 Stainless Steel
- Sealing: Sewn or Thermal Welding

Dimensions

See Table: Filter Bag Dimensions and Typical Liquid Flow Rates for Sizing Recommendation

Performance Specifications

Retention Ratings

- PP: 1, 5, 10, 25, 50, 100 μm
- PE: 1, 5, 10, 25, 50, 100 μm

FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.



Filter Bag Dimensions and Typical Liquid Flow Rates for Sizing Recommendation

Size	Diameter Inch (mm)	Length Inch (mm)	Filtration Surface Area ft ² (m ²)	Flow Rate gpm (M ³ /hr)
Size 1 Filter Bag	7"(177.8)	16"(406.4)	5.2(0.48)	90(20)
Size 2 Filter Bag	7"(177.8)	32"(812.8)	10.0(0.92)	180(40)

Filter Media Properties (Chemical-Temperature)

Media	Max. Temp. (°F/°C)	Strong Acid Resistance	Weak Acid Resistance	Strong Alkali Resistance	Weak Alkali Resistance	Solvents
PP	200-220°F (93-104°C)	Excellent	Excellent	Good	Good	Fair
PE	275-325°F (135-162°C)	Good	Good	Excellent	Excellent	Good

This guide contains general recommendations.

Soak tests or trial use should be conducted to on the specific fluid to confirm compatibility

Ordering Information

PPDB	10	P	2	F-	W
Product Name	Retention Rating	Ring Material	Bag Size	Ring Type	Sealing Method
PPDB (Polypropylene)	1, 5, 10, 25, 50, 100 µm	P=PP S=304SS	1=01 2=02 3=03 4=04	F G S	S=Sewn Type W=Welding Type WS= Welding with Sewn Type
PEDB (Polyester)					

Bag-Flow M Series Filter Bags



Product Introduction

Filtrafine Bag-Flow M series filter bags provide more precise retention ratings than felt filter bags. This bag style is suitable for all standard filter bag housings. Its nominal retention ratings are from 50 to 400 μm which can handle high flow with low pressure drop. Bag-Flow M series is washable, reusable and has wide chemical compatibility. Besides, it is resistant to contaminant unloading.

- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Filter Media: Nylon Monofilament
- Ring: Polypropylene, 304 Stainless Steel
- Sealing: Sewn

Dimensions

See Table: Filter Bag Dimensions and Typical Liquid Flow Rate for Sizing Recommendation

Performance Specifications

Retention Ratings

50, 75, 80, 100, 125, 150, 300, 400 μm



Filter Bag Dimensions and Typical Liquid Flow Rates for Sizing Recommendation

Size	Diameter Inch (mm)	Length Inch (mm)	Filtration Surface Area ft ² (m ²)	Flow Rate gpm (M ³ /hr)
Size 1 Filter Bag	7"(177.8)	16"(406.4)	2.6(0.24)	90(20)
Size 2 Filter Bag	7"(177.8)	32"(812.8)	5.0(0.46)	180(40)
Size 3 Filter Bag	4"(101.6)	8"(203.2)	0.8(0.07)	25(6)
Size 4 Filter Bag	4"(101.6)	14"(355.6)	1.5(0.14)	50(12)

Filter Media Properties (Chemical-Temperature)

Media	Max. Temp. (°F/°C)	Strong Acid Resistance	Weak Acid Resistance	Strong Alkali Resistance	Weak Alkali Resistance	Solvents
NMO	275-325°F (135-162°C)	Fair	Poor	Excellent	Excellent	Good

This guide contains general recommendations.

Soak tests or trial use should be conducted to on the specific fluid to confirm compatibility

Ordering Information

NMO	50	P	2	F-	S
Product Name	Retention Rating	Ring Material	Bag Size	Ring Type	Sealing Method
NMO	50, 75, 80, 100, 125, 150, 300, 400 µm	P=PP S=304SS	1=01 2=02 3=03 4=04	F G S	S=Sewn Type

Bag-Flow FXL Series Filter Bags



Product Introduction

Filtrafine Bag-Flow FXL series filter bag is made of silicone oil free polypropylene or polyester materials. Its all welded construction provides higher efficiency, and eliminates the chance of fluid bypass. Its depth construction enhances filtration of gels, fluids with broad particle distributions and particles with irregular shapes. It utilizes plastic rings or metal rings for wide temperature compatibility. In addition, it ensures easy change-out for reducing down-time and maintenance costs; therefore, this series is ideal solution for batch processes. Besides, used Bag-Flow FXL series filter bags are easily disposed or incinerated.

- Meet FDA requirements for food and beverage contact.
- Manufactured under a certified ISO 9001 quality system.

Product Specifications

Materials of Construction

- Filter Media: Needle Felt Polypropylene, Needle Felt Polyester
- Ring: Polypropylene, 304 Stainless Steel
- Sealing: All Welded Construction

Dimensions

See Table: Filter Bag Dimensions and Typical Liquid Flow Rate for Sizing Recommendation

Performance Specifications

Retention Ratings

- PPEL: 1, 5, 10, 25, 50, 100 μm
- PEEL: 1, 5, 10, 25, 50, 100 μm

FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.



Filter Bag Dimensions and Typical Liquid Flow Rates for Sizing Recommendation

Size	Diameter Inch (mm)	Length Inch (mm)	Filtration Surface Area ft ² (m ²)	Flow Rate gpm (M ³ /hr)
Size 1 Filter Bag	7"(177.8)	16"(406.4)	2.6(0.24)	90(20)
Size 2 Filter Bag	7"(177.8)	32"(812.8)	5.0(0.46)	180(40)

Filter Media Properties (Chemical-Temperature)

Media	Max. Temp. (°F/°C)	Strong Acid Resistance	Weak Acid Resistance	Strong Alkali Resistance	Weak Alkali Resistance	Solvents
PPEL	200-220°F (93-104°C)	Excellent	Excellent	Good	Good	Fair
PEEL	275-325°F (135-162°C)	Good	Good	Good	Excellent	Good

This guide contains general recommendations.

Soak tests or trial use should be conducted to on the specific fluid to confirm compatibility

Ordering Information

PPEL	10	P	2	F-	W
Product Name	Retention Rating	Ring Material	Bag Size	Ring Type	Sealing Method
PPEL (Polypropylene)	1, 5, 10, 25, 50, 75, 100 µm	P=PP	1=01 2=02	F G S	W=Welding Type
PEEL (Polyester)					

Bag-Flow F Series Filter Bags



Product Introduction

Filtrafine Bag-Flow F series filter bag has high contaminant holding capacity, and its broad range of proprietary media provides excellent filtration performance and great consistency. It also offers plastic and metal rings for wide temperature compatibility, and silicone oil free finish prevents craters to provide a better surface results. Used PP or PE material is easily disposed or incinerated. Contaminants are trapped inside the bag for cleaner change-out.

- All welded construction can provide higher efficiency and eliminate the chance of bypass.
- Meet FDA requirements for food and beverage contact.
- Manufactured under a certified ISO 9001 quality system.

Product Specifications

Materials of Construction

- Filter Media: Needle Felt Polypropylene, Needle Felt Polyester
- Ring: Polypropylene, 304 Stainless Steel
- Sealing: All Welded Construction

Dimensions

See Table: Filter Bag Dimensions and Typical Liquid Flow Rate for Sizing Recommendation

Performance Specifications

Retention Ratings

- PP: 1, 5, 10, 25, 50, 100, 200 μm
- PE: 1, 5, 10, 25, 50, 100, 200 μm

FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.



Filter Bag Dimensions and Typical Liquid Flow Rates for Sizing Recommendation

Size	Diameter Inch (mm)	Length Inch (mm)	Filtration Surface Area ft ² (m ²)	Flow Rate gpm (M ³ /hr)
Size 1 Filter Bag	7"(177.8)	16"(406.4)	2.6(0.24)	90(20)
Size 2 Filter Bag	7"(177.8)	32"(812.8)	5.0(0.46)	180(40)
Size 3 Filter Bag	4"(101.6)	8"(203.2)	0.8(0.07)	25(6)
Size 4 Filter Bag	4"(101.6)	14"(355.6)	1.5(0.14)	50(12)

Filter Media Properties (Chemical-Temperature)

Media	Max. Temp. (°F/°C)	Strong Acid Resistance	Weak Acid Resistance	Strong Alkali Resistance	Weak Alkali Resistance	Solvents
PP	200-220°F (93-104°C)	Excellent	Excellent	Good	Good	Fair
PE	275-325°F (135-162°C)	Good	Good	Excellent	Excellent	Good

This guide contains general recommendations.

Soak tests or trial use should be conducted to on the specific fluid to confirm compatibility

Ordering Information

PP	10	P	2	F-	W
Product Name	Retention Rating	Ring Material	Bag Size	Ring Type	Sealing Method
PP	1, 5, 10, 25, 50, 100, 200 µm	P=PP S=304SS	1=01 2=02 3=03 4=04	F G S	S=Sewn Type W=Welding Type WS= Welding with Sewn Type

LHF High Flow Series Filter Cartridges



Product Introduction

LHF series filter cartridge's high surface area and large diameter provide higher flow rate, service life, dirt holding capacity and lower maintenance/ disposal costs. It has center core to resist higher differential pressure, and has twist-to-lock mechanism to provide easy and quick change-out. In addition, LHF series high flow filters provide a wide chemical compatibility and can be applied to various industrial applications.

- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Filter Media: Polypropylene, Glass Fiber
- Hardware: Polypropylene
- Sealing: Thermal Bond
- Support Material: Polypropylene (for PP media)
Polyester (for glass fiber media)
- O-rings: EPDM (standard)
Buna-N, EPDM, Silicone, Viton (optional)

Dimensions

- Outside Diameter: 6.5" (165mm)
- Lengths: 40"

Performance Specifications

Retention Ratings

- LHF: 1, 3, 5, 10, 40, 70 μ m Absolute
- LHFG: 1, 2, 5, 10, 20 μ m Absolute

Operating Conditions

- Maximum Operating Temperature:
LHF: 180°F (82°C)
LHFG: 220°F (105°C)
- Recommended Change Out Differential Pressure:
35 psid (2.4 bar)

Toxicity

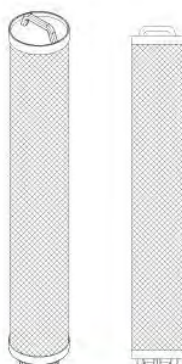
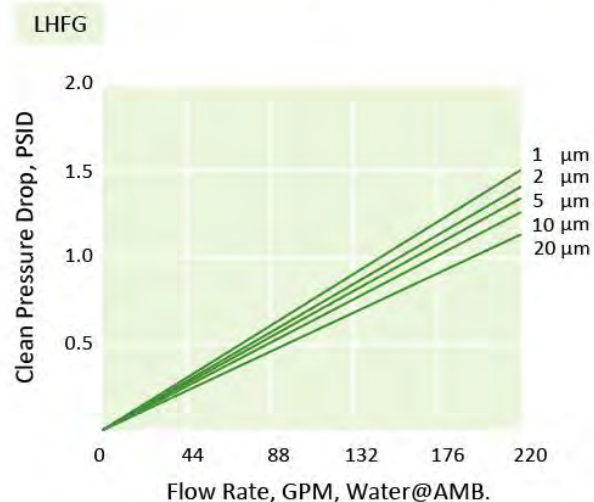
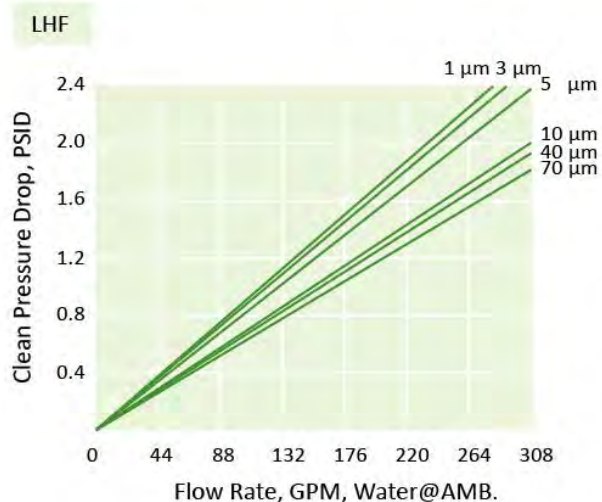
All Polypropylene components meet the specifications for biological safety as per the USP for Class VI-121°C Plastics (o-rings excluded)

Applications

Food and Beverage, Seawater Desalination, Cooling Water, Industrial Water, RO Pre-filtration, Amine Circulation Filtration, Process Water and Waste Water Treatment, etc.



Liquid Flow Rate vs. Initial Differential Pressure



Ordering Information

LHF	010-	740-	E
Product Name	Retention Rating	Cartridge Length	O-ring Material
LHF (PP)	010=1 µm 030=3 µm 050=5 µm 100=10 µm 400=40 µm 700=70 µm	740=40"	N=Buna-N E=EPDM V=Viton S=Silicone
LHFG (Glass Fiber)	010=1 µm 020=2 µm 050=5 µm 100=10 µm 200=20 µm		

LHV Series High Flow Filter Housings



Product Introduction

Filterfine LHV series high flow filter housing can provide solutions for a wide range of industry such as oil and gas exploration or RO-prefiltration use. In addition, its vertical design saves more accommodation space, and user-friendly swing eye-bolt with davit arm design allows quick and easy cartridge change-out.

- Manufactured under a certified ISO 9001 quality system
- ASME Code U/UM stamp (optional)

Product Specifications

Materials of Construction

- Head/Shell: 304, 316 or 316L Stainless Steel
- Connections: 304, 316 or 316L Stainless Steel
- Internal Components: 304, 316 or 316L Stainless Steel
- Swing Eye Bolts: 304 Stainless Steel
- O-rings: EPDM (standard)
Silicone, Teflon Encapsulated Viton,
Viton (optional)
- Option: Rubber lined housing is available, please consult factory.

Dimensions

- Inlet/Outlet: 3"-14"
- Connection Types: ANSI, JIS, and DIN Flange
- Vent : 1" NPT
- Drain: 1 1/2" NPT
- Gauge: 1/4" NPT

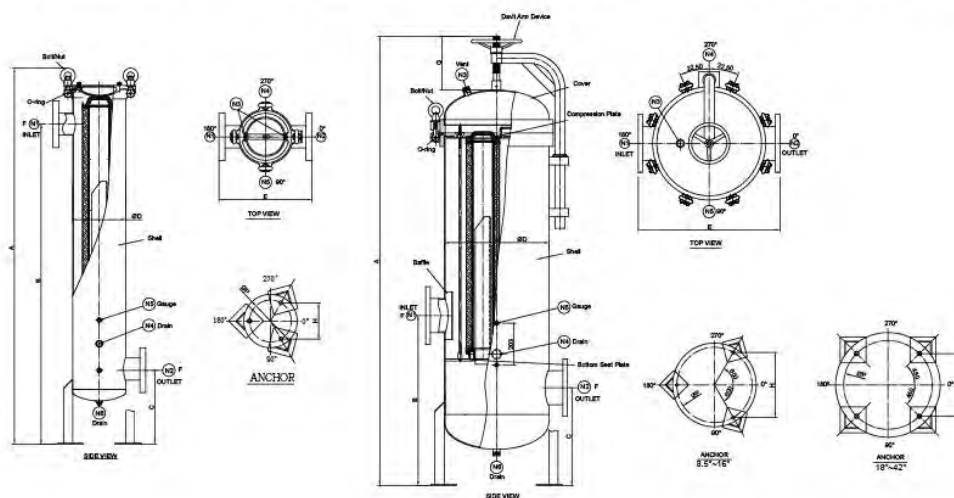
Performance Specifications

Maximum Operating Pressure

150 psig (10.3 bar) @ 77°F (25°C) in liquid service



Model	Dimension Inch (mm)								
	A	B	C	ØD	E	F	G	H	ØP
1LHV	60"(1522)	51"(1295)	11.8"(300)	8.5"(216)	17.7"(451)	3"		5.7"(147)	6.6"(169)
2LHV	78.1"(1984)	26"(662)	15.6"(398)	14"(355)	21.1"(536)	4"	9.5"(242)	10.7"(272)	12.3"(314)
3LHV	80.3"(2040)	27.5"(700)	16.6"(423)	16"(406)	23"(586)	5"	9.5"(242)	12.4"(316)	14.3"(365)
4LHV	81.4"(2069)	28"(712)	17.1"(436)	18"(456)	25"(636)	6"	9.5"(242)	11.5"(293)	16.3"(415)
5LHV	85.8"(2181)	32.4"(825)	18.7"(475)	20"(508)	27"(688)	6"	11.9"(262)	11.9"(304)	16.9"(430)
6LHV	87"(2211)	33.1"(843)	19.2"(488)	22"(558)	29"(738)	6"	11.9"(262)	13.3"(340)	18.9"(481)
7LHV	90.2"(2291)	37"(940)	20.6"(525)	24"(608)	31.8"(808)	8"	11.9"(262)	14.5"(370)	20.9"(531)
8LHV	91.3"(2321)	37.5"(953)	21.1"(538)	26"(658)	33.7"(858)	8"	11.9"(262)	16.1"(411)	22.9"(582)
10LHV	94.7"(2407)	41.3"(1050)	22.6"(575)	28"(710)	35.8"(910)	8"	11.9"(262)	18.1"(460)	25.5"(650)
12LHV	95.9"(2437)	41.8"(1063)	23.1"(587)	30"(760)	38.5"(980)	10"	11.9"(262)	19.4"(495)	27.5"(700)
13LHV	98.5"(2502)	45.6"(1160)	24.2"(615)	32"(810)	40.5"(1030)	10"	11.9"(262)	20.8"(530)	29.5"(750)
15LHV	99.6"(2532)	46.1"(1173)	24.9"(633)	34"(860)	43.3"(1100)	12"	11.9"(262)	22.2"(565)	31.4"(799)
17LHV	105.5"(2682)	50.1"(1275)	26.3"(670)	36"(912)	45.3"(1152)	12"	12.8"(326)	22.6"(575)	32"(814)
19LHV	106.7"(2712)	50.6"(1287)	26.8"(682)	38"(962)	48.1"(1222)	14"	12.8"(326)	24"(611)	34"(864)
21LHV	109.9"(2792)	51.9"(1320)	28.3"(720)	40"(1012)	50"(1272)	14"	12.8"(326)	25.4"(647)	35.9"(914)
23LHV	113.7"(2889)	55.1"(1400)	29.5"(750)	42"(1074)	54"(1374)	14"	12.7"(325)	25.9"(658)	36.6"(931)



Ordering Information

3	LHV	4	A-	5	F	D	A-	C	150	-P	-U
Number of Element	Product Name	Cartridge Length	Material of Construction	Inlet/Outlet Connection Size	Connection Type	Davit Arm Assembly	Flange Type	Code	Pressure Rating (psig)	Option	ASME Stamp
1, 2, 3, 4, 5, 6, 7, 8, 10, 12, 13, 15, 17, 19, 21, 23	LHV	4=40"	A=304SS S=316SS SL=316LSS RL=Rubber Lining	3", 4", 5", 6", 8", 10", 12", 14"	F=Flange	Standard	A=ANSI J=JIS D=DIN	NC=None Code C=ASME Code	150	Blank=None P=Mechanical polished U=U Stamp UM=UM Stamp	Blank=None U=U Stamp UM=UM Stamp

Multipleat High Flow Series Filter Cartridges



Product Introduction

Multipleat High Flow series has higher surface area which can handle high flow rate and provide long service time to reduce maintenance costs. Its inside-to-outside flow configuration can capture all contaminants in this single open ended filter. Its polypropylene and fixed pore construction can not only apply to many process fluids ensuring wide chemical compatibility, but resist dirt unloading at high differential pressures.

- Manufactured in a class 1,000 clean room.
- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Filter Media: Polypropylene, Glass Fiber
- Hardware: Polypropylene
- Sealing: Thermal Bond
- Support Material: Polypropylene (for PP media)
Polyester (for glass fiber media)
- O-rings: EPDM, Silicone, Viton

Dimensions

- Outside Diameter: 6" (152mm)
- Lengths: 20", 40", 60"

Performance Specifications

Retention Ratings

- MHF: 1, 3, 4.5, 10, 20, 40 μ m Absolute
- MHFG: 0.5, 1, 2, 5, 10, 20 μ m Absolute

Operating Conditions

- Maximum Operating Temperature:
MHF: 180°F (82°C)
MHFG: 220°F (105°C)
- Recommended Change Out Differential Pressure:
35 psid (2.4 bar)

Toxicity

All Polypropylene components meet the specifications for biological safety as per the USP for Class VI-121°C Plastics (o-rings excluded)

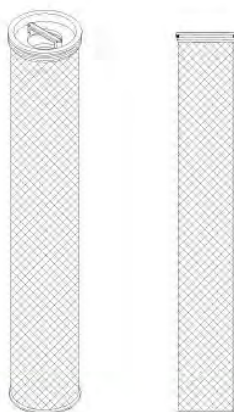
Applications

Food and Beverage, Seawater Desalination, Cooling Water, Industrial Water, RO Pre-filtration, Amine Circulation Filtration, Process Water and Waste Water Treatment, etc.



Liquid Flow Rate vs. Initial Differential Pressure

Retention Ratings	MHF			MHFG		
	20"	40"	60"	20"	40"	60"
	(psid/gpm)/(x100)(bar/lpm)	(psid/gpm)/(x100)(bar/lpm)	(psid/gpm)/(x100)(bar/lpm)	(psid/gpm)/(x100)(bar/lpm)	(psid/gpm)/(x100)(bar/lpm)	(psid/gpm)/(x100)(bar/lpm)
0.5 μm	N / A	N / A	N / A	0.0200 / 0.0364	0.0095 / 0.0173	0.0070 / 0.0127
1 μm	0.0090 / 0.0164	0.0049 / 0.0089	0.0040 / 0.0073	0.0150 / 0.0273	0.0079 / 0.0144	0.0062 / 0.0113
2 μm	N / A	N / A	N / A	0.0140 / 0.0255	0.0075 / 0.0137	0.0050 / 0.0091
3 μm	0.0070 / 0.0127	0.0035 / 0.0064	0.0027 / 0.0049	N / A	N / A	N / A
4.5 μm	0.0042 / 0.0076	0.0022 / 0.0040	0.0017 / 0.0031	N / A	N / A	N / A
5 μm	N / A	N / A	N / A	0.0138 / 0.0251	0.0072 / 0.0131	0.0048 / 0.0087
10 μm	0.0035 / 0.0064	0.0019 / 0.0035	0.0010 / 0.0018	0.0132 / 0.0240	0.0067 / 0.0122	0.0045 / 0.0082
20 μm	0.0025 / 0.0046	0.0013 / 0.0024	0.0009 / 0.0016	0.0100 / 0.0182	0.0060 / 0.0109	0.0040 / 0.0073
40 μm	0.0010 / 0.0018	0.0007 / 0.0013	0.0005 / 0.0009	N / A	N / A	N / A



Ordering Information

MHF	010-	620-	E
Product Name	Retention Rating	Cartridge Length	O-ring Material
MHF (PP)	010=1 μm 030=3 μm 045=4.5 μm 100=10 μm 200=20 μm 400=40 μm	620=20" 640=40" 660=60"	E=EPDM V=Viton S=Silicone
MHFG (Glass Fiber)	005=0.5 μm 010=1 μm 020=2 μm 050=5 μm 100=10 μm 200=20 μm		

Multipleat High Flow Series Filter Housings



Product Introduction



Filtrafine MHH series high flow filter housing can accommodate 1 to 19 rounds Filtrafine MHF cartridges. Its horizontal orientation design eliminates the needs for a ladder, catwalk or platform to change out filter cartridges. Its user-friendly eye bolts with davit arm assistance device design allows quick and easy change-out. Its inside-to-outside flow direction minimizes the possibility of down stream contamination during cartridge change-out.

- Manufactured under a certified ISO 9001 quality system
- ASME Code U/UM stamp (optional)
- Vertical type is available on request, please consult your Filtrafine representative

Product Specifications

Materials of Construction

- Head/Shell: 304 or 316 Stainless Steel
- Connections: 304 or 316 Stainless Steel
- Internal Components: 304 or 316 Stainless Steel
- Swing Bolts: 304 Stainless Steel
- O-rings: EPDM (standard)
Silicone, Teflon Encapsulated Viton,
Viton (optional)

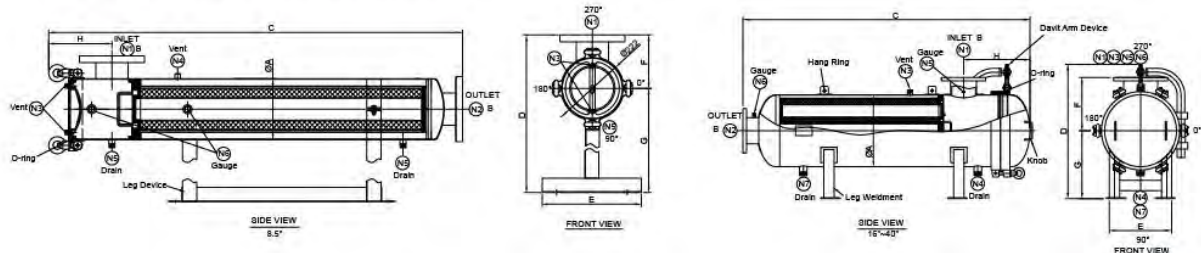
Dimensions

- Inlet/Outlet: 4"-20"
- Connection Types: ANSI, JIS, and DIN Flange
- Vent : 1" NPT
- Drain: 1 1/2" NPT
- Gauge: 1/4" NPT

Performance Specifications

Maximum Operating Pressure

150 psig (10.3 bar) @ 77°F (25°C) in liquid service





1 Element	ØA	B	C	D	E	F	G	H
1MHH2	8.5" (216)	4"	37.7" (960)	27" (688)	13.7" (350)	7.4" (188)	19.6" (500)	8.7" (223)
1MHH4	8.5" (216)	4"	57.4" (1460)	27" (688)	13.7" (350)	7.4" (188)	19.6" (500)	8.7" (223)
1MHH6	8.5" (216)	4"	77.5" (1971)	27" (688)	13.7" (350)	7.4" (188)	19.6" (500)	8.7" (223)
2 Elements	ØA	B	C	D	E	F	G	H
2MHH2	16" (406)	4"	45.9" (1166)	31.3" (797)	14.2" (361)	12.3" (313)	15.7" (400)	13" (332)
2MHH4	16" (406)	4"	65.5" (1666)	31.3" (797)	14.2" (361)	12.3" (313)	15.7" (400)	13" (332)
2MHH6	16" (406)	4"	85.7" (2177)	31.3" (797)	14.2" (361)	12.3" (313)	15.7" (400)	13" (332)
3 Elements	ØA	B	C	D	E	F	G	H
3MHH2	18" (456)	5"	48.4" (1230)	33.5" (852)	15.5" (396)	13.3" (338)	16.9" (430)	14.4" (368)
3MHH4	18" (456)	5"	68.1" (1730)	33.5" (852)	15.5" (396)	13.3" (338)	16.9" (430)	14.4" (368)
3MHH6	18" (456)	5"	88.2" (2241)	33.5" (852)	15.5" (396)	13.3" (338)	16.9" (430)	14.4" (368)
4 Elements	ØA	B	C	D	E	F	G	H
4MHH2	20" (508)	6"	52" (1321)	35.3" (898)	16.8" (429)	14.3" (364)	17.7" (450)	16.5" (421)
4MHH4	20" (508)	6"	71.6" (1821)	35.3" (898)	16.8" (429)	14.3" (364)	17.7" (450)	16.5" (421)
4MHH6	20" (508)	6"	91.8" (2332)	35.3" (898)	16.8" (429)	14.3" (364)	17.7" (450)	16.5" (421)
5 Elements	ØA	B	C	D	E	F	G	H
5MHH2	22" (558)	6"	54.3" (1381)	37.4" (951)	19.6" (499)	15.7" (399)	18.7" (475)	17.8" (453)
5MHH4	22" (558)	6"	74" (1881)	37.4" (951)	19.6" (499)	15.7" (399)	18.7" (475)	17.8" (453)
5MHH6	22" (558)	6"	94.1" (2392)	37.4" (951)	19.6" (499)	15.7" (399)	18.7" (475)	17.8" (453)
7 Elements	ØA	B	C	D	E	F	G	H
7MHH2	24" (610)	8"	58.8" (1496)	39.4" (1001)	21.1" (538)	16.7" (425)	19.6" (500)	20.2" (514)
7MHH4	24" (610)	8"	78.5" (1996)	39.4" (1001)	21.1" (538)	16.7" (425)	19.6" (500)	20.2" (514)
7MHH6	24" (610)	8"	98.7" (2507)	39.4" (1001)	21.1" (538)	16.7" (425)	19.6" (500)	20.2" (514)
8 Elements	ØA	B	C	D	E	F	G	H
8MHH2	26" (660)	8"	59.7" (1517)	41.5" (1056)	22.7" (577)	17.7" (450)	20.8" (530)	20.5" (522)
8MHH4	26" (660)	8"	79.4" (2017)	41.5" (1056)	22.7" (577)	17.7" (450)	20.8" (530)	20.5" (522)
8MHH6	26" (660)	8"	99.5" (2528)	41.5" (1056)	22.7" (577)	17.7" (450)	20.8" (530)	20.5" (522)

9 Elements	ØA	B	C	D	E	F	G	H
9MHH2	28" (710)	8"	60.7" (1544)	43.3" (1101)	24.6" (625)	19.1" (486)	21.6" (550)	21" (535)
9MHH4	28" (710)	8"	80.4" (2044)	43.3" (1101)	24.6" (625)	19.1" (486)	21.6" (550)	21" (535)
9MHH6	28" (710)	8"	100.5" (2555)	43.3" (1101)	24.6" (625)	19.1" (486)	21.6" (550)	21" (535)
12 Elements	ØA	B	C	D	E	F	G	H
12MHH2	32" (812)	10"	63" (1602)	47.5" (1207)	27.7" (705)	21.1" (536)	23.6" (600)	21.9" (558)
12MHH4	32" (812)	10"	82.7" (2102)	47.5" (1207)	27.7" (705)	21.1" (536)	23.6" (600)	21.9" (558)
12MHH6	32" (812)	10"	102.8" (2613)	47.5" (1207)	27.7" (705)	21.1" (536)	23.6" (600)	21.9" (558)
13 Elements	ØA	B	C	D	E	F	G	H
13MHH2	34" (862)	10"	64" (1627)	49.6" (1262)	29.2" (743)	22" (561)	24.8" (600)	22.4" (570)
13MHH4	34" (862)	10"	83.7" (2127)	49.6" (1262)	29.2" (743)	22" (561)	24.8" (600)	22.4" (570)
13MHH6	34" (862)	10"	103.8" (2638)	49.6" (1262)	29.2" (743)	22" (561)	24.8" (600)	22.4" (570)
15 Elements	ØA	B	C	D	E	F	G	H
15MHH2	36" (916)	12"	68.7" (1747)	53.4" (1357)	31.5" (801)	23.5" (598)	27.5" (700)	24.9" (634)
15MHH4	36" (916)	12"	88.4" (2247)	53.4" (1357)	31.5" (801)	23.5" (598)	27.5" (700)	24.9" (634)
15MHH6	36" (916)	12"	108.5" (2758)	53.4" (1357)	31.5" (801)	23.5" (598)	27.5" (700)	24.9" (634)
17 Elements	ØA	B	C	D	E	F	G	H
17MHH2	38" (966)	12"	70.2" (1784)	55.4" (1409)	33" (839)	24.5" (623)	28.5" (725)	25.8" (657)
17MHH4	38" (966)	12"	89.9" (2284)	55.4" (1409)	33" (839)	24.5" (623)	28.5" (725)	25.8" (657)
17MHH6	38" (966)	12"	110" (2795)	55.4" (1409)	33" (839)	24.5" (623)	28.5" (725)	25.8" (657)
19 Elements	ØA	B	C	D	E	F	G	H
19MHH2	40" (1016)	14"	71.8" (1826)	57.4" (1459)	34.5" (877)	25.5" (648)	29.5" (750)	27.1" (689)
19MHH4	40" (1016)	14"	91.5" (2326)	57.4" (1459)	34.5" (877)	25.5" (648)	29.5" (750)	27.1" (689)
19MHH6	40" (1016)	14"	111.6" (2837)	57.4" (1459)	34.5" (877)	25.5" (648)	29.5" (750)	27.1" (689)

Unit:Inch (mm)

Ordering Information

1	MHH	2	A-	4	F	D	A-	C	100	-P	-UM
Number of Elements	Product Name	Cartridge Length	Material of Construction	Inlet/Outlet Connection Size	Connection Type	Davit Arm Assembly	Flange Type	Code	Pressure Rating (psig)	Option	ASME Stamp
1, 2, 3, 4, 5, 7, 8, 9, 12, 13, 15, 17, 19	MHH	2=20" 4=40" 6=60"	A=304SS S=316SS SL=316LSS	4", 5", 6", 8", 10", 12", 14"	F=Flange	Standard	A=ANSI J=JIS D=DIN	NC=None Code C=ASME Code	100 150	Blank=None P=Mechanical polished	Blank=None U=U Stamp UM=UM Stamp

NHF High Flow Series Filter Cartridges



Product Introduction

NHF series filter cartridge's high surface area and large diameter provide higher flow rate, service life, dirt holding capacity and lower maintenance/ disposal costs. NHF series center core can resist higher differential pressure, and its double o-rings design provides better sealing effect. In addition, it provides optional polypropylene and glass fiber media, which can be applied to wide chemical compatibility.

- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Filter Media: Polypropylene, Glass Fiber
- Hardware: Polypropylene
- Sealing: Thermal Bond
- Support Material: Polypropylene (for PP media)
Polyester (for glass fiber media)
- O-rings: EPDM (standard)
Buna-N, Silicone, Viton (optional)

Dimensions

- Outside Diameter: 6" (152mm)
- Length: 40"

Performance Specifications

Retention Ratings

- NHF: 0.5, 1, 5, 10, 20, 30, 40, 100 μm
- NHFG: 0.2, 0.5, 1, 5, 20, 40 μm

Operating Conditions

- Maximum Operating Temperature:
NHF: 180°F (82°C)
NHFG: 220°F (105°C)
- Recommended Change Out Differential Pressure:
35 psid (2.4 bar)

Toxicity

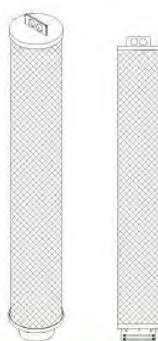
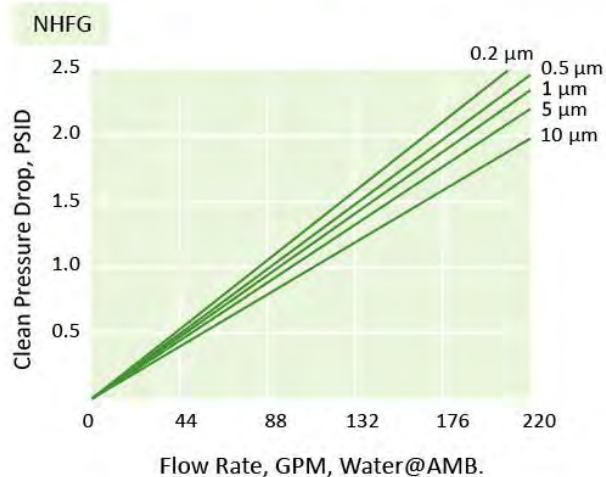
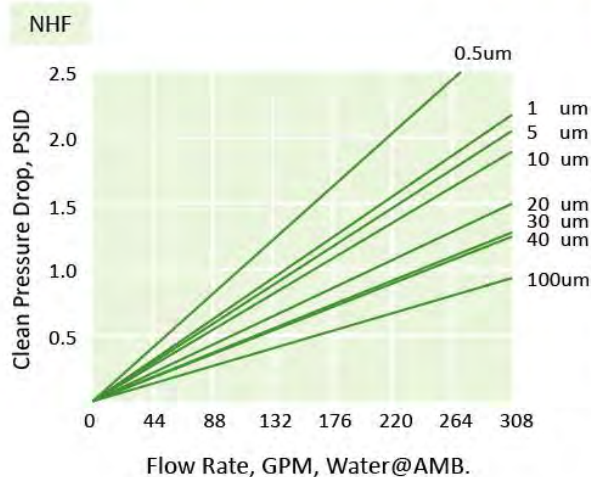
All Polypropylene components meet the specifications for biological safety as per the USP for Class VI-121°C Plastics (o-rings excluded)

Applications

Food and Beverage, Seawater Desalination, Cooling Water, Industrial Water, RO Pre-filtration, Amine Circulation Filtration, Process Water and Waste Water Treatment, etc.



Liquid Flow Rate vs. Initial Differential Pressure



Ordering Information

NHF	010-	640-	EXE
Product Name	Retention Rating	Cartridge Length	O-ring Material
NHF (PP)	005=0.5 μ m 010=1 μ m 050=5 μ m 100=10 μ m 200=20 μ m 300=30 μ m 400=40 μ m 1000=100 μ m	640=40"	NXN=Buna-N EXE=EPDM VXV=Viton SXS=Silicone
NHFG (Glass Fiber)	002=0.2 μ m 005=0.5 μ m 010=1 μ m 050=5 μ m 100=10 μ m		

NHV High Flow Series Filter Housings



Product Introduction

Filtrafine NHV series filter housing can accommodate single or multiple Filtrafine NHF cartridges. Its vertical design saves more accommodation space, and its swing eye bolt closure design makes cartridge change-out quick and durable. Besides, customized designs are available.

- Manufactured under a certified ISO 9001 quality system
- ASME Code U/UM stamp (optional)
- Rubberlined housing (optional)

Product Specifications

Materials of Construction

- Head/Shell: 304, 316 or 316L Stainless Steel
- Connections: 304, 316 or 316L Stainless Steel
- Internal Components: 304, 316 or 316L Stainless Steel
- Swing Eye Bolts: 304 Stainless Steel
- O-rings: EPDM (standard)
Silicone, Teflon Encapsulated Viton,
Viton (optional)

Dimensions

- Inlet/Outlet: 3"-18"
- Connection Types: ANSI, JIS, and DIN Flange
- Vent : 1" NPT
- Drain: 1 1/2" NPT
- Gauge: 1/4" NPT

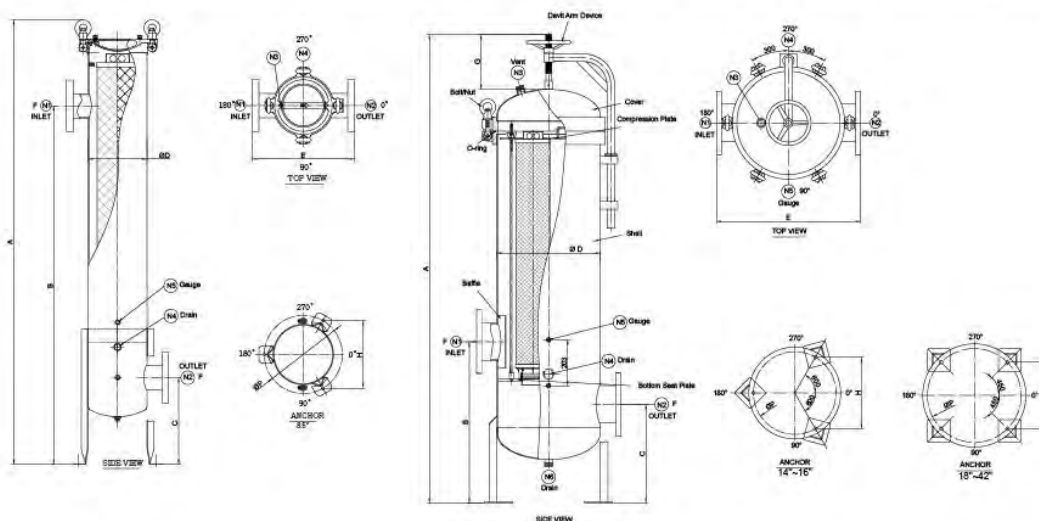
Performance Specifications

Maximum Operating Pressure

150 psig (10.3 bar) @ 77°F (25°C) in liquid service



Model	Dimension Inch (mm)								
	A	B	C	ØD	E	F	G	H	ØP
1NHV	64.4"(1637)	51.9"(1320)	12.5"(320)	8.5"(216)	14.8"(376)	3"		9.8"(249)	11.2"(287)
2NHV	78.1"(1986)	25.9"(660)	15.7"(400)	14"(356)	21.1"(536)	5"		10.7"(272)	12.3"(314)
3NHV	80.3"(2040)	27.5"(700)	16.6"(423)	16"(406)	23"(586)	6"		12.4"(316)	14.3"(365)
4NHV	81.4"(2069)	28"(712)	17.1"(436)	18"(456)	25"(636)	6"		11.5"(293)	16.3"(415)
5NHV	85.8"(2181)	32.4"(825)	18.7"(475)	20"(508)	27.8"(708)	8"		11.9"(304)	16.9"(430)
6NHV	87"(2211)	33.1"(843)	19.2"(488)	22"(558)	29.8"(758)	8"		13.3"(340)	18.9"(481)
8NHV	90.2"(2291)	37"(940)	20.6"(525)	24"(608)	32.6"(828)	10"		14.8"(376)	20.9"(531)
9NHV	91.3"(2321)	37.5"(953)	21.1"(538)	26"(658)	34.5"(878)	10"		16.1"(411)	22.9"(582)
11NHV	94.7"(2407)	41.3"(1050)	22.6"(575)	28"(710)	37.4"(950)	12"		18.1"(460)	25.5"(650)
13NHV	95.9"(2437)	41.8"(1063)	23.1"(587)	30"(760)	39.3"(1000)	12"		19.4"(495)	27.5"(700)
14NHV	98.5"(2502)	45.6"(1160)	24.2"(615)	32"(810)	42.1"(1070)	14"		20.8"(530)	29.5"(750)
16NHV	99.6"(2532)	46.1"(1173)	24.9"(633)	34"(860)	44"(1120)	14"		22.2"(565)	31.4"(799)
18NHV	105.5"(2682)	50.1"(1275)	26.3"(670)	36"(912)	46.9"(1192)	16"		22.6"(575)	32"(814)
20NHV	106.7"(2712)	50.6"(1287)	26.8"(682)	38"(962)	48.1"(1224)	16"		24"(611)	34"(864)
22NHV	109.9"(2792)	51.9"(1320)	28.3"(720)	40"(1012)	51.6"(1312)	18"		25.4"(647)	35.9"(914)
24NHV	115.2"(2926)	64.5"(1639)	31.5"(800)	42"(1074)	54"(1374)	18"		25.9"(658)	36.6"(931)



Ordering Information

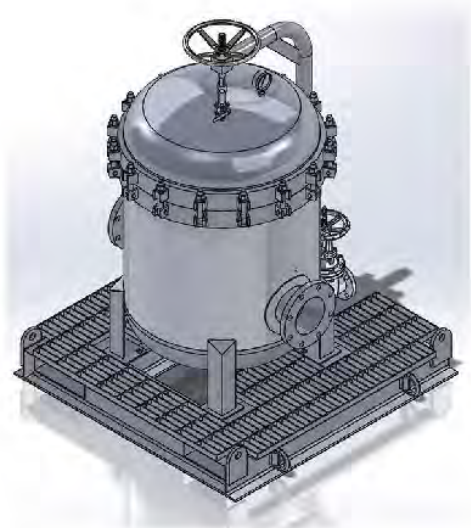
Number of Element	Product Name	Cartridge Length	Material of Construction	Inlet/Outlet Connection Size	Connection Type	Davit Arm Assembly	Flange Type	Code	Pressure Rating (psig)	Option	ASME Stamp
1, 2, 3, 4, 5, 6, 8, 9, 11, 13, 14, 16, 18, 20, 22, 24	NHV	4=40"	A=304SS S=316SS SL=316LSS RL=Rubber Lining	3", 5", 6", 8", 10", 12", 14", 16", 18"	F=Flange	Standard	A=ANSI J=JIS D=DIN	NC=None Code C=ASME Code	150	Blank=None P=Mechanical polished	Blank=None U=U Stamp UM=UM Stamp

Customized Filter Housings

Product Introduction

Filtrafine has professional R&D teams who can provide clients best design solutions to meet customers' various operating demands. The housings with rubber lining, FRP lining or PTFE lining are commonly used in sea water desalination or chemical industry. Besides of materials of construction, the pressure ratings, connection types, cartridge types or skids etc. are also available in customization. Please contact your Filtrafine sales representative for your best filtration solution.

- Manufactured under a certified ISO 9001 quality system
- ASME Code U/UM stamp (optional)





Modular Filter Housing Skids



Product Introduction

Filtrafine provides variety of modular filter housings to meet customers' different requirements. The modular filter housing skids are available in kinds of Filtrafine filter housings, which could be applied in different industrial applications. The modular housing design allows for flexibility to process turn-down as well as for continuous operation during filter element change-out.

- Manufactured under a certified ISO 9001 quality system
- ASME Code U/UM stamp (optional)

Product Specifications

Features and benefits

- Modular housing design allows for flexibility to process turndown as well as for continuous operation during filter element change-out
- Available in 304 or 316 stainless steel material for maximum compatibility with process fluids and operation conditions
- Operator friendly swing eye bolt design allows for quick filter change-out
- High interior surface finishing avoids particle contamination, allowing for easy cleaning
- Designed to accept industry-wide standard filter bag size #2 as well as Filtrafine range of high surface area filter elements

Dimensions

- Inlet/Outlet: 3", 4", 5", 6", 7", 8"
- Connection Types: ANSI, JIS, and DIN Flange
- Vent : 1" NPT
- Drain: 1.5" NPT
- Gauge: 1/4" NPT

Materials of Construction

- Head: 304 or 316 Stainless Steel
- Shell: 304 or 316 Stainless Steel
- Internal Components: 304, 316 Stainless Steel
- Shell O-rings: EPDM (standard)
Silicone, Teflon Encapsulated Viton,
Viton (optional)

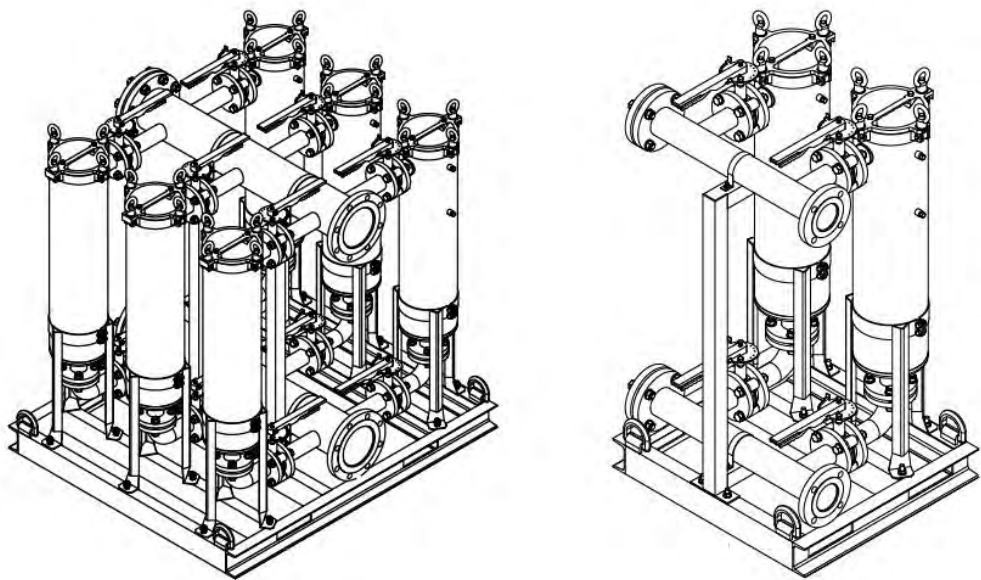




Performance Specifications

Maximum Operating Pressure

150 psig (10.3 bar) @ 200°F (93°C) in liquid service



Ordering Information

1X4	FSB	2	A-	T-	2	FA-	3	FA-	C	150	-EP	-UM
Number of Housing	Product Name	Bag Size	Material of Construction	Bag Housing Type	Inlet/Outlet Connection Size	Connection Type	Main Pipe Connection Size	Main Pipe Connection Type	Code	Pressure Rating (psig)	Option	ASME Stamp
1x2	FSB	1=01 2=02	A=304SS S=316SS	T=Top-Entry	1",2"	FA=ANSI Flange	3", 4", 5", 6", 8"	FA=ANSI Flange	NC=None Code C=ASME Code	150	Blank=None	Blank=None U=U Stamp UM=UM Stamp
1x3				S=Side-Entry		FJ=JIS Flange		FJ=JIS Flange			EP=Electro-polished	
1x4				M=Machine		FD=DIN Flange		FD=DIN Flange			P=Mechanical polished	
2x2				Cutting Head		TN=NPT Thread		TN=NPT Thread				
2x3				Side Entry		TP=PT Thread		TP=PT Thread				
2x4						TB=BSP Thread		TB=BSP Thread				

Oil Absorption Series Filter Cartridges



Product Introduction

Filtrafine Oil Absorption series filter cartridge utilizes special and non-swelling organoclay media to remove, dispersed, emulsified and dissolved hydrocarbons from wastewater. It has highloading capacity of absorption. In addition, it offers excellent polishing capabilities when used in conjunction with other primary oil removal technologies, and allowing for complete compliance with numerous wastewater discharge regulations.

- Able to meet IMO MEPC107(49) regulations as well as US EPA discharge regulation, and numerous other state and country-specific regulations.
- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Absorption Media: Granular Non Swelling Organoclay
- Inner Core: Polypropylene
- End Caps: Polypropylene
- O-rings: Buna-N (standard)
EPDM (optional)

Dimensions

- Outer Diameter: 2.67" (68mm)
- Lengths: 10", 20", 30", 40"

Performance Specifications

Features and Benefits

- Patented non swelling organoclay granular media allows for higher loading capacity of absorption media.
- Designed for a 95% reduction in dispersed, emulsified and dispersed, emulsified and dissolved hydrocarbons for diverse hydrocarbon concentrations and compositions.
- Able to meet IMO MEPC 107 (49) regulations as well as US EPA discharge regulation, and numerous other state and country-specific regulations
- Virgin Polypropylene hardware construction ensures good chemical compatibility with most chemical compounds
- Designed to fit a variety of Filtrafine filter housings

Applications

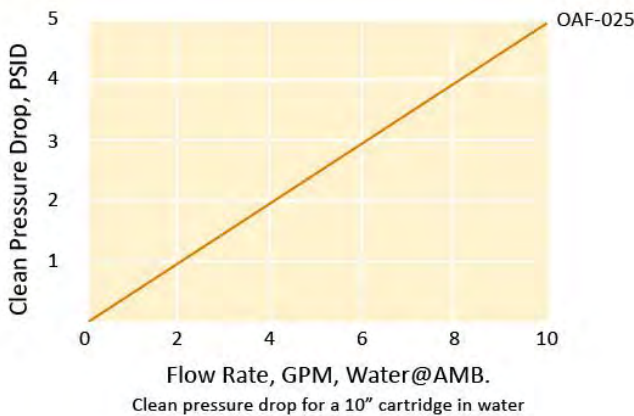
- Commercial bilge and ballast water polishing system
- Treating mechanically / chemically stable emulsions in oilfield produced water
- Removal of hydrocarbons from industrial waste water
- Tank farm, parking and airport runoff water
- Retrofitting or used alongside GAC filters



Operating Conditions

- Maximum Operating Temperature: 167°F (75°C)
- Recommended Flow Rate:
1 gpm per 10" cartridge in water
- pH Limits: 4-11

Liquid Flow Rate vs. Initial Differential Pressure



Ordering Information

OAF	025-	10-	3	N
Product Name	Outside Diameter	Cartridge Length	End Configuration	O-ring Material
OAF	025=2.5" 048=4.8"	10" 20" 30" 40"	Code 3=222 / Flat	N=Buna-N E=EPDM