

Fiber Reinforced Plastics(FRP)Filter Housing

» Corrosion Resistant and Economical Filter



Description

FRPH series fiber reinforced plastics filter is suitable for filtering corrosive liquids such as seawater desalination, featuring corrosion resistance, high-pressure tolerance, leak-proof performance, easy disassembly & assembly, and long service life. The filter adopts a single filter cartridge design, which can be freely combined with ultrafiltration (UF) and reverse osmosis (RO) systems. It can also be configured into multiple filtration units according to the on-site environment, demonstrating strong adaptability to different field conditions.



Features and Advantages

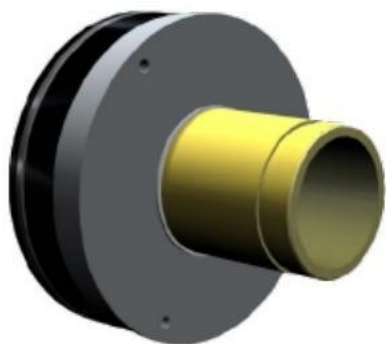
- Modular design allows for easy combination and high cost performance.
- Compact equipment with an aesthetic appearance: the surface adopts a baked enamel process for elegance, using eco-friendly materials
- Features convenient disassembly/assembly, flexible design, reliable operation, and optimized component design
- It offers better corrosion resistance than stainless steel filter housing
- It has superior pressure resistance compared to PVC filter housing



Basic Parameters

Materials	Shell	FRP
	Saddle	Rubber
	Strap	Stainless Steel/Rubber
	Sealing Ring	EPDM/Silicone/FKM
Connection	Design Pressure	1.0Mpa
	Operation Temperature	-10℃-65℃
	Number of Filter Cartridges	1
	Length of Filter Cartridges	20inch, 40inch, 60inch
	Filter Cartridges	High Flow Filter Cartridge
	Water Inlet and Outlet Mode	Inner Inlet and Outer Outlet (Internal Pressure Type)

Common Accessories



End Outlet Sealing End Cap



Side Outlet Sealing End Cap



Filter Support



Stainless Steel Stopper



PVC Coupling



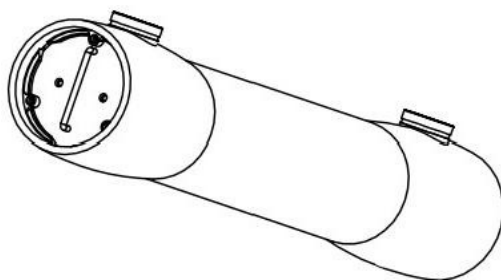
Saddle



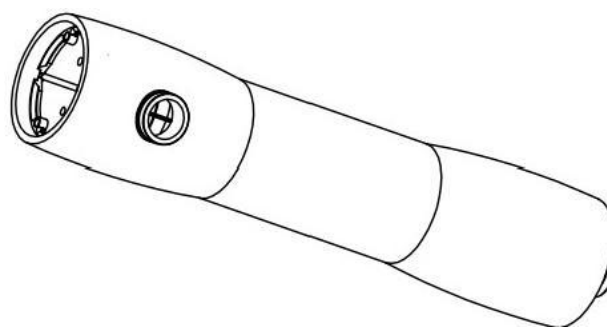
Sealing Ring

Ordering Information

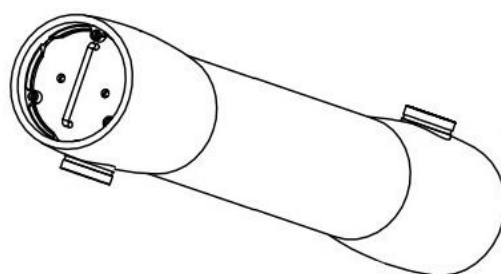
Series	Size	Water Inlet and Outlet	Inlet and Outlet Connections*	Sealing Ring	Type
FRPH	20=20" 40=40" 60=60"	A=Side Inlet and Side Outlet (Same Side) B=Side Inlet and Side Outlet (Opposite Sides) C=Side Inlet and End Outlet D=End Inlet and End Outlet	C80=Coupling DN80	S=Silicone F=FKM E=EPDM	P=600 FlowPure L=LinePure



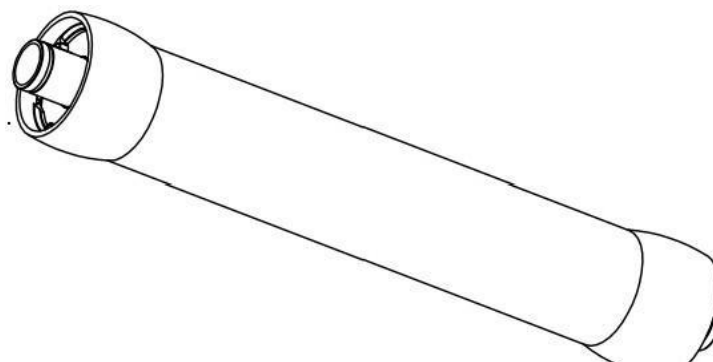
Side Inlet and Side Outlet-A



Side Inlet and End Outlet-C



Side Inlet and Side Outlet-B



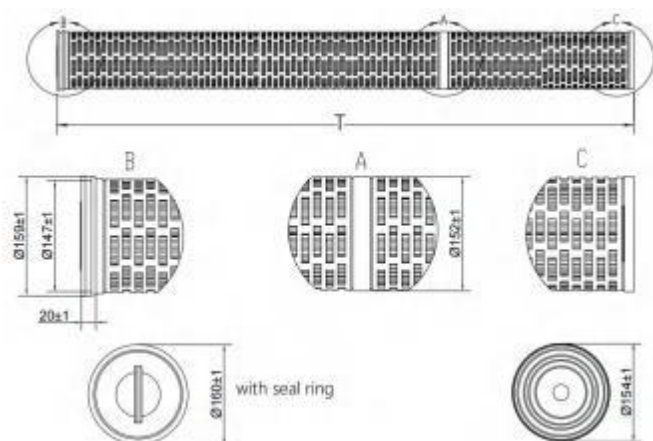
End Inlet and End Outlet-D

MS 600 FlowPure-HF Filter Cartridge



600 FlowPure-HF high flow series pleated filter cartridge has a large diameter of 6inch(152mm), no core, and a single opening design. The large diameter ensures a larger filtration area and increases the flux, thereby reducing the number of filters and cartridges. Long service life and high flow rate reduce investment costs.

Technical Parameters



Length	T
20"	525±3 mm
40"	1016±3 mm/1025±3 mm

Materials of Construction	Filter Membrane	PP/Glass Fiber
	Support/Shell	PP
	End Cap	PP
	O-rings	S/E/N
	Welding Method	Hot-melt Welding(No Adhesive)
Filter Dimensions	Outer Diameter	152mm(6")
	Length	20"/40"/60"
	Filtration Area	6 m ² @40"
	Connection	Carrying Handle Type
Operating Conditions	Operating Temperature	PP Shell < 80°C
	Maximum Differential Pressure	3.4 bar @ 80°C
	Recommended Replacement Differential Pressure	2.4 bar @ 20°C
	Flow Direction	Inside to Outside

*The length can be adjusted according to the requirements.

Features

- Filter material has gradient pore structure
- Flow rate is 5 times that of ordinary pleated filter cartridge
- 50% less investment in the overall system
- Uses hot-melt welding technology

Typical Applications

- RO prefiltration, desalination plants and industrial process water
- Filtration of power plants, condensed water
- Drinking water, food and beverage, edible oil, etc.
- Filtration of oilfield reinjection water
- High-purity water process pretreatment in biopharmaceutical industry

	Filter Material	Length	Removal Rating	Filtration Efficiency	Sealing	Appearance	Core
CRHF	PP=Polypropylene GF=Glass Fiber	020=20"	010=0.1µm	Blank=Nominal A=Absolute	S=Silicone E=EPDM N=NBR F=FKM	B=Bind Belt Type C=Shell Type	Blank=No core P=PP core
		040=40"	100=1µm				
		060=60"	300=3µm				
			500=5µm				
			1000=10µm				
			2000=20µm				
			3000=30µm				
			5000=50µm				
			7000=70µm				
			10000=100µm				

*This ordering information is a guide for selecting filter element specifications. For other special connections or installation details, please contact MS.

MS CrossPure-T Pleated Filter Cartridge

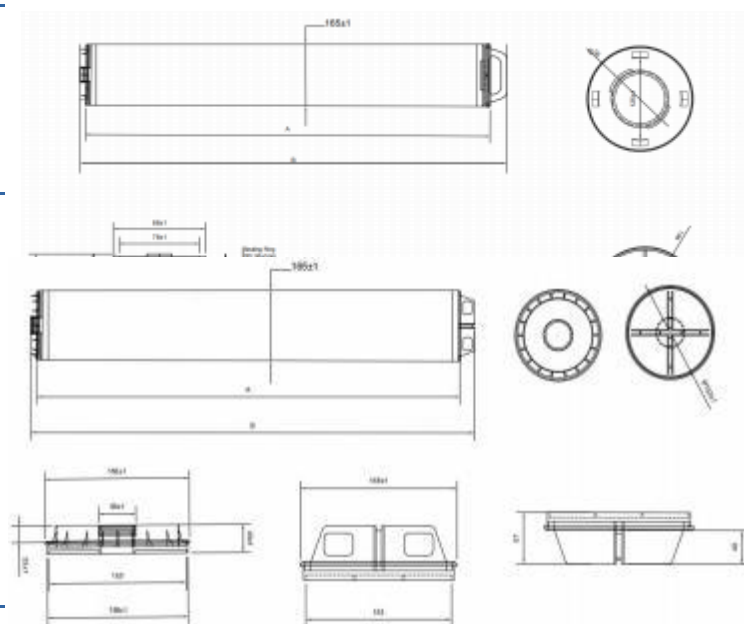
Description

Combining high flow rates and high solids is a challenge for most filters. MS CrossPure-T filters incorporate a special radial pleat, puts an extraordinary amount of surface area into a single cartridge, so it meets the challenge with the highest flow and dirt holding combination available. Each grade of MS High Flow filter element is manufactured with meltblown polypropylene microfiber media or resin bonded glass fiber, providing high particle removal efficiency with broad chemical compatibility. All supported layers and hardware are constructed with polypropylene.

Technical Parameters

Materials of Construction	Filter Material	Deep pleated polypropylene, Pleated Glass Fiber
	Support/Drainage	PP
	End Cap	Polypropylene
	O-ring	FKM, EPDM
	Pleat Type	Radial
Filter Dimensions	Outer Diameter	6.5" (165mm)
	Length	20" , 40" , 60"
	Filtration Area	8 m ² @40"
Recommended Performance Parameters	Maximum Operating Temperature	Deep pleated polypropylene: 80°C Resin synthetic glass fiber: 120°C
	Maximum Operating Pressure	Deep pleated polypropylene: 3.4 bar@80°C Resin synthetic glass fiber: 3.4 bar@120°C
	Recommended pressure difference for filter cartridge replacement	2.4 bar@20°C
	Flow Direction	Outside to Inside

High Flow Dimensional Drawing*







Features

- Designed to fit inside existing 3M housings and provide an O-ring seal without housing modification
- Special radial pleat design
- Ergonomically designed handle- facilitates easy cartridge installation and removal
- "Twist to lock" seating mechanism provides positive seal
- High flow capability of up to 500gpm per cartridge

Typical Applications

- Aqueous Salt Solution
- Boiler Condensate

Ordering Information*

	Filter Material	Length	Removal Ratings	Filtration Efficiency	Sealing	Type of End Cap	Core	
CRHC	PP=Deep pleated polypropylene	020= 20"	010=0.1µm 2000=20µm	Blank=Nominal A=Absolute	S=Silicone E=EPDM N=NBR F=FKM	A=Type A	Blank=PP core	T
		040= 40" 060= 60"	100=1µm 3000=30µm 300=3µm 5000=50µm 500=5µm 7000=70µm 1000=10µm 10000=100µm			  B=Type B  		

*This ordering information is a guide for selecting filter element specifications. For other special connections or installation details, please contact MS.

Description

MS LinePure filter has been designed for ease of use whilst increasing productivity when compared to conventional filter formats. LinePure is available in 6.75 inch diameter and 60 inch length, and materials are available in polypropylene media, a PVC core, and a proprietary o-ring seal. LinePure liquid filters support high flow pre-RO filtration in desalination and industry water treatment systems. The larger filtration area and flow rate, requires few changeout, and maintains a low cost of operation.

Technical Parameters

Materials of Construction	Filter Material	Pleated Polypropylene
	Inner Core	Polypropylene
	End Cap	Polypropylene
	O-ring	NBR, Viton
Filter Dimensions	Outer Diameter	6.75" (171mm)
	Length	60" (1524mm)
	Filtration Area	7.5m ² @40", 11.25m ² @60"
Recommended Performance Parameters	Maximum Operating Temperature	Deep pleated polypropylene: 80°C
	Maximum Operating Pressure	Deep pleated polypropylene: 3.4 bar@80°C
	Recommended pressure difference for filter cartridge replacement	2.4 bar@20°C
	Flow Direction	Outside to Inside
	Maximum flow	117 m ³ /h
	Recommended flow	60 m ³ /h

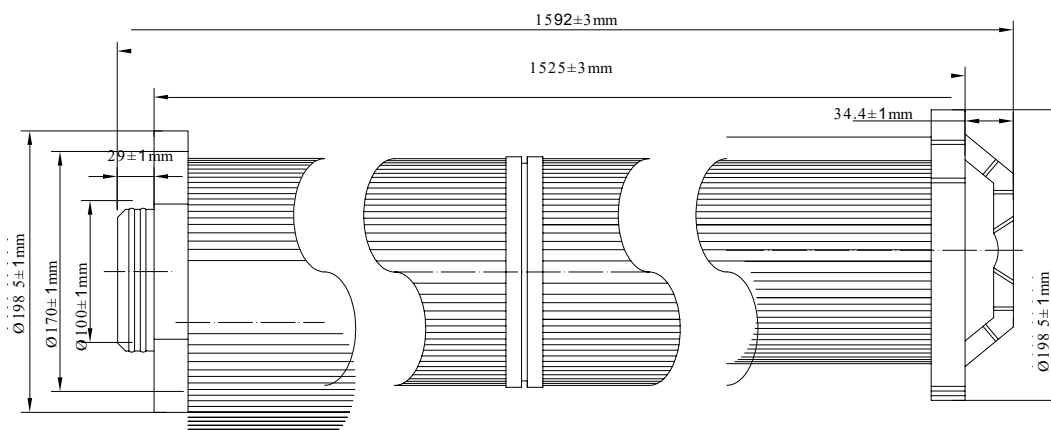


Features

- Absolute beta 5000 efficiency
- Enable consistent particle removal with high dirt capacity
- Proprietary o-ring seal
- Multi layer pleated construction with optimized surface area
- Outside-in flow provides maximum flow rates

Typical Applications

- Water treatment
- Sea water and brackish water
- The filtration of bottled water, soft drinks and other beverage
- Microelectronics process water
- Pharmaceutical WFI Generation



	Filter Material	Length	Removal Rating	Filtration Efficiency	Sealing	Core
CRLP	PP=Polypropylene	020=20"	010=0.1µm 2000=20µm 100=1µm 3000=30µm	Blank=Nominal A=Absolute	S=Silicone E=EPDM N=NBR F=FKM	Blank=PP core
	GF=Glass Fiber	040=40" 060=60"	300=3µm 5000=50µm 500=5µm 7000=70µm 1000=10µm 10000=100µm			

MS CrossPure Pleated Filter Cartridge

Description

Combining high flow rates and high solids is a challenge for most filters. MS CrossPure filters meet this challenge with the highest flow and dirt holding combination available. Fewer filter change-outs means less costs associated with labor, disposal, and fluid losses. It can be used for a variety of hardware and for different flow rate request. The large diameter with bigger filtration area insures to reduce the number of filter cartridges and the dimension of housing required.



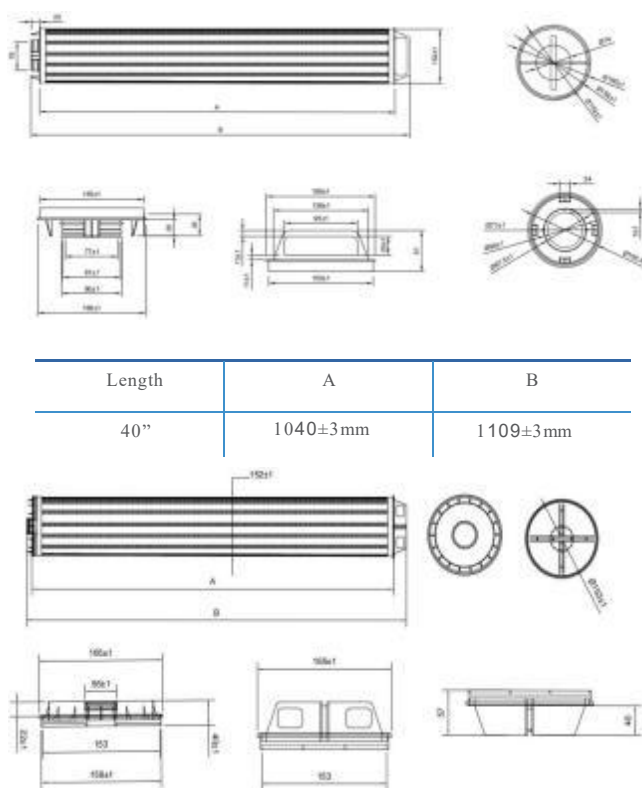
Technical Parameters

Materials of Construction	Filter Material	Deep pleated polypropylene/Resinsynthetic glass fiber
	Support/Drainage	PP
	End Cap	Polypropylene
	O-ring	FKM, EPDM
Filter Dimensions	Outer Diameter	6" (152.4mm)
	Length	20" ,40" ,60"
	Filtration Area	6.5 m ² @40"
Recommended Performance Parameters	Maximum Operating Temperature	Deep pleated polypropylene: 80°C Resin synthetic glass fiber: 120°C
	Maximum Operating Pressure	Deep pleated polypropylene: 3.4 bar@80°C Resin synthetic glass fiber: 3.4 bar@120°C
	Recommended pressure difference for filter cartridge replacement	2.4 bar@20°C
	Removal Ratings	1~70µm
	Flow Direction	Outside to Inside

Features

- Designed to fit inside existing 3M housings and provide an O-ring seal without housing modification
- High dirty holding capacity, longer service life Less cartridge change out to save the cost
- O-ring design cause no bypass to ensure the filtration efficiency
- It is available in a variety of filter media to meet industry standards and chemical compatibility

High Flow Dimensional Drawing





Code B

Length	A	B
40"	935±3mm	1000±3mm

- Industrial- Municipal Water, RO Prefiltration, Coolants
- Chemical- Quench water, Final Products
- Electronics- RO Prefiltration, Process Water
- Food & Beverage- Process Water
- Pharmaceutical- Process Water

*The length can be adjusted according to the requirements.

Ordering Information*

	Filter Material	Length	Removal Ratings	Filtration Efficiency	Sealing	Type of End Cap	Core
CRHC	PP=Deep pleated polypropylene	020= 20"	010=0.1μm 2000=20μm	Blank= Nominal A=Absolute	S=Silicone E=EPDM	A=Type A	Blank=PP core
		040= 40"	100=1μm 3000=30μm				
	GF=Resin synthetic glass fiber	060= 60"	300=3μm 5000=50μm		N=NBR	B=Type B	
			500=5μm 7000=70μm 1000=10μm 10000=100μm		F=FKM		

CONTACT US

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