Homay FILTER Industrial Filtration Products Catalog





Homay FILTER

Hangzhou Homay Filter Material Co.,Ltd

Tel:86-571-58835065

Fax:86-571-61719507

Email:sales@homayfilter.com

Web:www.homayfilter.com

Add:Rm.5103,5th Floor,No.1119-1 Gongwang Road,Fuchun Street,Fuyang,Hangzhou,Zhejiang,China

Homay FILTER

Industrial Filtration Solutions

www.homayfilter.com



OUR MISSION

Working Closely,

Growing Together is Homay's Mission.

Here Contact Today,

With You Tomorrow.







Homay FILTER

Purifying the Environment
Delivering Peace of Mind

FILTRATION **SEPARATION** **PURIFICATION**

COMPANY INTRODUCTION

Homay Filter is a qualified company serving Industrial Liquid Process Filtration in the world.

We are one of the largest independent supplier of filtration and water treatment products in China and company got ISO 9001 Certification.

It takes professionalism and a passion for customer service to achieve that status year on year.

APPLICATION

Homay manufactures a wide scope of filtration products and services for













STOCK & SUPPLY

We stock a wide scope of products and available in 7 days for container order.

You can trust Homay to get the qualified goods in time after your order.

Main products are high flow filter cartridge, membrane micro pleated filter cartridge, sediment filter cartridge, filter housing, capsule filter, syringe filter, filter housing and etc.,











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Pleated High Flow Filter Cartridge

for Pall Ultipleat Replacement

This is one kind of universal high flow filter cartridge. The large diameter with a larger filtration area reduces the number of filter cartridges and the dimension of housing required. The long service life and high flow rate result in low investment and less manpower in many applications.

BENEFITS

- Higher filtration area even up to 8m³, higher flow capability.
- Higher dirt holding capability, longer service life.
- We can meet different application requirements by designing different layers for the filter structure.
- Nominal micron rating and absolute micron rating are available.

APPLICATIONS

- Sea water desalination
- Food and beverage
- Microelectronics
- Oil & Chemical
- Machinery and equipment
- Power plant water treatment
- Steel mill water treatment

MATERIALS OF CONSTRUCTION

Outside Diameter
6 inch(152mm)

Filter Media
Pleated glass fiber
Pleated depth Polypropylene (PP)
PP Melt blown

Support/Drainage
Polypropylene (PP)

CONFIGURATIONS

Removal Rating (μm)

0.5	1	3	5	10	20	25
50	70	100				

Length (")

20 (528mm)	40 (1022mm)
60 (1524mm)	60 (1538mm)

Seal Material

E = EPDM	B = Buna	F = E-FKM
V = Viton	S = Silicone	

SPECIFICATION

Maximum Operating Temperature
Pleated Glass Fiber:121°C
Pleated PP: 80°C
Melt Blown PP: 80°C

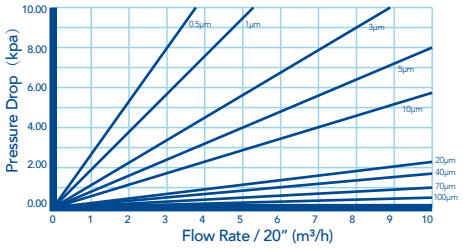
Maximum Operation Differential Pressure
3.5 Bar @ 21°C

Recommended Change out Differential Pressure
1.8-2.4 Bar @ 20°C

Suggested Maximum Flow of water
20 inch length : 660LPM
40 inch length : 1,300LPM
60 inch length : 1,900LPM

Length	Max. Flow Rate	Recommended Flow Rate
60inch	113m³/hr	50m³/hr
40inch	75m³/hr	33m³/hr
20inch	38m³/hr	17m³/hr

Flow Characteristics



ORDERING CODE

Example : HMPHF-PN-5-40-C-S

	Media	Removal Rating	Length	Outside Type	Seal Material
HMPHF	**GF** = Glass Fiber **PN** = PP Nominal **PA** = PP Absolute **MB** = PP Melt Blown	**0.5** = 0.5μm **1** = 1μm **3** = 3μm **5** = 5μm **10** = 10μm **20** = 20μm **25** = 25μm **50** = 50μm **70** = 70μm **100** = 100μm	**20** = 20"(528mm) **40** = 40"(1022mm) **60** = 60"(1524mm /1538mm)	**B** = Belt **C** = Cage **6** = SS316L **4** = SS304	**S** = Silicone **B** = Buna **E** = EPDM **V** = Viton **F** = E-FKM



High Flow Pleated Filter Cartridge

for 3M M740 Replacement

This type has a core inside which is suitable for the outside to inside flow pattern.
The pleated type has more filtration area to save more manpower when changing the filters.

BENEFITS

- High dirt holding capacity, longer service life
- Less cartridge change out to save the labor cost
- O-ring design avoids bypass to ensure the filtration efficiency
- Easy handing resultsin less manpower

APPLICATIONS

- Municipal water
- Food and beverage
- General industrial
- Power plant water treatment

MATERIALS OF CONSTRUCTION

Outside Diameter
6.5 inch (165mm)

Filter Media
Polypropylene, Glass Fiber;

Support/Drainage
Polypropylene (PP)

End Cap Material
Glass Fiber reinforced PP

CONFIGURATIONS

Removal Rating (μm)

0.5	1	3	5	10	25	50
70	100					

Length (")

40	60

Seal Material

E = EPDM	B = Buna	F = E-FKM
V = Viton	S = Silicone	

SPECIFICATION

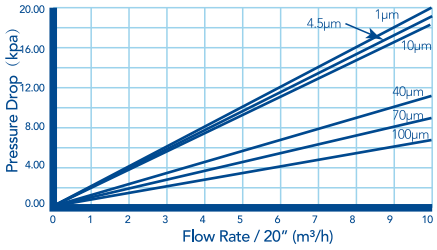
Maximum Operating Temperature
80°C

Maximum Operation Differential Pressure
3.0 Bar , 80°C

Recommended Change out Differential Pressure
2.4 Bar @ 20°C

Filter Area
40": 6m²
60": 9m²

Flow Characteristics



ORDERING CODE

Example : HM3M-PN-5-40-S-A

	Media	Removal Rating	Length	Seal Material	End Cap Type
HM3M	**GF** = Glass Fiber **PN** = PP Nominal **PA** = PP Absolute	**0.5** = 0.5μm **1** = 1μm **3** = 3μm **5** = 5μm **10** = 10μm **25** = 25μm **50** = 50μm **70** = 70μm **100** = 100μm	**40** = 40" **60** = 60"	**S** = Silicone **B** = Buna **E** = EPDM **V** = Viton **F** = E-FKM	**A** = Code A **B** = Code B



Horizontal Pleated Filter Cartridge
for 3M 740B,7000 and 720 Replacement

Horizontal pleated has maximum filtration area. It gets a longer service life and higher flow rate than the vertical pleated filter cartridge.

BENEFITS

- High dirt holding capacity, longer service life
- Less cartridge change out to save the labor cost
- O-ring design avoids bypass to ensure the filtration efficiency
- Easy handling results in less manpower

APPLICATIONS

- Municipal water
- Food and beverage
- General industrial
- Power plant water treatment

MATERIALS OF CONSTRUCTION

Outside Diameter
6.5 inch(165mm)

Filter Media
Polypropylene

Support/Drainage
Polypropylene (PP)

End Cap Material
Glass Fiber Reinforced PP

CONFIGURATIONS

Removal Rating (μm)

0.5	1	3	5	10	25	50
70	100					

Length (")

20	30
40	60

Seal Material

E = EPDM	B = Buna	F = E-FKM
V = Viton	S = Silicone	

SPECIFICATION

Maximum Operating Temperature
80°C

Maximum Operation Differential Pressure
3.0 Bar , 80°C

Recommended Change out Differential Pressure
2.4 Bar @ 20°C

Filter Area
30": 6-8m²
40": 10-12m²
60": 15-18m²

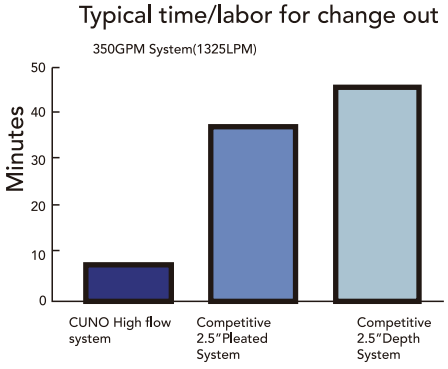
FILTER COMPARISON

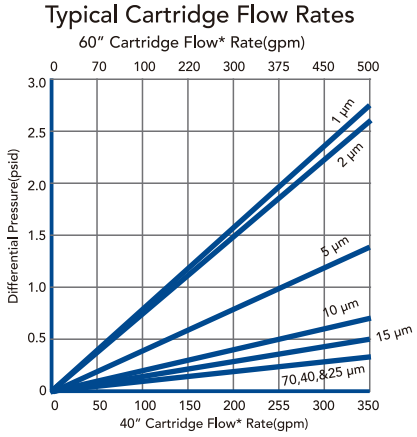
1. High Flow System requires 90% fewer cartridges as competitive 2.5" cartridge systems for a given flow rate.
2. High Flow Housings are 33% to 50% smaller than competitively sized housings for a given flow rate.
3. Fewer filters and a user-friendly housing design means faster change-outs than competitively sized systems.

* Comparison assumes fluid viscosity of 1 cp



1 HF cartridge filter In a 8.6" diameter housing
18 standard diameter 2.5" pleated filter in a 16" housing





ORDERING CODE

Example : HM3MC-5-40-S-A

	Removal Rating	Length	Seal Material	End Cap Type
HM3MC	**0.5** = 0.5μm **1** = 1μm **3** = 3μm **5** = 5μm **10** = 10μm **25** = 25μm **50** = 50μm **70** = 70μm **100** = 100μm	**20** = 20" **30** = 30" **40** = 40" **60** = 60"	**S** = Silicone **B** = Buna **E** = EPDM **V** = Viton **F** = E-FKM	**A** = Code A **B** = Code B



High Flow Pleated Filter Cartridge
for Parker Replacement

This is a Parker replacement cartridge for the high flow applications. It is an economical design for one kind of universal high flow filter housing.

BENEFITS

- High dirt holding capacity, longer service life.
- Less cartridge change out to save the labor cost.
- Easy handling results in less manpower.
- Wide chemical compatibility.

APPLICATIONS

- Prefiltration of RO, Pretreatment of sea water desalination
- Oil and gas
- Power generation condensate system
- Food and beverage
- Pharmaceutical
- Microelectronics

MATERIALS OF CONSTRUCTION

Outside Diameter
6 inch(152mm)

Filter Media
Polypropylene (PP)

Outer Netting
Polypropylene (PP)

End Cap Material
Glass Fiber Reinforced PP

CONFIGURATIONS

Removal Rating (μm)

1	3	5	10	20	40	50
70	100					

Length (")

40

Seal Material
Silicone, EPDM , Buna , Viton

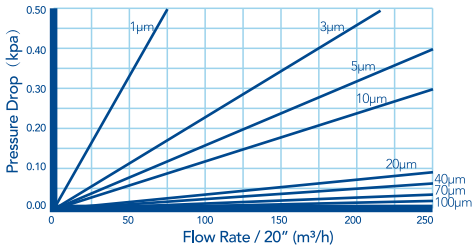
SPECIFICATION

Maximum Operating Temperature
80°C

Maximum Operation Differential Pressure
3.0 Bar , 80°C

Suggested Maximum Flow Rate
1300 LPM

Flow Characteristics



ORDERING CODE

Example : HMK-PN-5-S-B

	Media	Removal Rating	Seal Material	End Cap Type
HMK	**GF** = Glass Fiber **PN** = PP Nominal **PA** = PP Absolute	**1** = 1μm **3** = 3μm **5** = 5μm **10** = 10μm **20** = 20μm **40** = 40μm **50** = 50μm **70** = 70μm **100** = 100μm	**S** = Silicone **B** = Buna **E** = EPDM **V** = Viton	**A** = Single O-ring **B** = Double O-ring



PP Pleated High Flow Filter Cartridge
for Pentair Aqualine Replacement

This is the high flow filter cartridge to replace the Pentair Aqualine high flow filter cartridge.
The large diameter with a larger filtration area reduces the number of filter cartridges and the dimension of housing required.

BENEFITS

- Economical design, more cost advantage
- Higher dirt-holding capability, longer service life
- Different application requirements by designing different layers for the filter structure
- Nominal micron rating and absolute micron rating are available

APPLICATIONS

- Sea water desalination, Pre RO desalination
- Food and beverage
- Microelectronics
- Oil&chemical
- Machinery and equipment
- Power plant water treatment
- Steel mill water treatment

MATERIALS OF CONSTRUCTION

Outside Diameter
6.75 inch(172mm)

Inside Diameter
2.99 inch(76mm)

Filter Media
Polypropylene (PP)

CONFIGURATIONS

Removal Rating (μm)

0.5	1	3	5	10	25	40	50
70	100						

Length (")

40 (1016mm)	60 (1589mm)

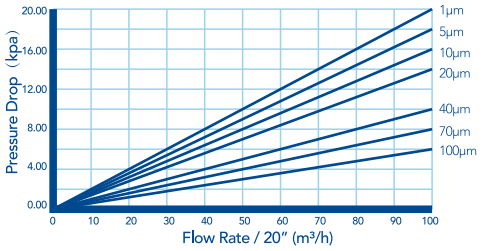
Seal Material
EPDM , Buna

SPECIFICATION

Maximum Operating Temperature
Pleated PP: 82°C

Maximum Operation Differential Pressure
35 Psid (2.4 Bar)

Flow Characteristics



ORDERING CODE

Example : HMAHF-PN-5-40-B

	Media	Removal Rating	Length	Seal Material
HMAHF	**PN** = PP Nominal **PA** = PP Absolute	**0.5** = 0.5μm **1** = 1μm **3** = 3μm **5** = 5μm **10** = 10μm **25** = 25μm **40** = 40μm **50** = 50μm **70** = 70μm **100** = 100μm	**40** = 40" **60** = 60"	**B** = Buna **E** = EPDM



FON Series Pleated High Flow Filter Cartridges

FON Series Pleated High Flow Filter Cartridges are washable pp pleated cartridges, an economical and reliable pleated filter cartridges for high flow applications with high efficiency. Pleated high flow filters are designed for applications with high contaminant removal requirements. High flow filter cartridges with an outside to inside flow pattern, large surface filtration area and high dirt holding capacity to save the quantities of filter cartridges, and lower waste disposal, and maintenance costs. High performance filter media of pleated high flow filters comply with the FDA and a wide range of chemical compatibility.

BENEFITS

- Large surface filtration area and high dirt holding capacity.
- 100% integrity testing and a wide range of chemical compatibility.
- High filtration efficiency, lower waste disposal costs, and more economical.
- High performance filter media of pleated high flow cartridges comply with the FDA.

APPLICATIONS

- Petrolchemicals
- Pre RO Filtration
- Food & Beverage
- Water Processing
- General Industrial
- Power Generation
- Process Chemicals

MATERIALS OF CONSTRUCTION

Outside Diameter
5.7 inch (145mm)

Filter Media
Polypropylene, Polyester

Support/Drainage
Polypropylene (PP)

End Cap Material
Glass Fiber Reinforced Polypropylene (PP)

Inside
Polypropylene (PP) Core

Outside
Netting

CONFIGURATIONS

Removal Rating (μm)

0.5	1	3	5	10	25	50
70	100	200	250			

Length (")

23 (585mm)	40 (1016mm)

Seal Material

S = Silicone	B = Buna	E = EPDM
V = Viton		

SPECIFICATION

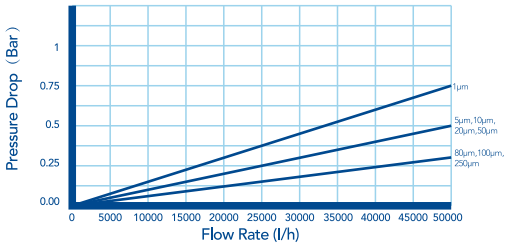
Maximum Operating Temperature
80°C

Maximum Operation Differential Pressure
2.0 Bar @ 80°C

Maximum Working Pressure
6.0 Bar @ 80°C

Suggested Maximum Flow of water
40 Inch Length: 28 m²/h

Flow Characteristics



ORDERING CODE

Example : HMFON-PP-40-5-S

	Media	Length	Removal Rating	Seal Material
HMFON	**PP** = Polypropylene **PET** = Polyester	**23** = 23" **40** = 40"	**0.5** = 0.5μm **1** = 1μm **3** = 3μm **5** = 5μm **10** = 10μm **25** = 25μm **50** = 50μm **70** = 70μm **100** = 100μm **200** = 200μm **250** = 250μm	**S** = Silicone **B** = Buna **E** = EPDM **V** = Viton



PP Pleated Filter Cartridges
for Pall Marksman Replacement

The function is the same as the bag filter. It has more filtration area and a longer life than a bag filter.

BENEFITS

- High dirt holding capacity, longer service life
- Less cartridge change out to save the labor cost
- Easily retrofit into existing size 1 and size 2 bag housings.
- The inside-to-outside fluid flow ensures that unwanted particles are trapped with the element.

APPLICATIONS

- Oil and gas
- Food and beverage
- Pharmaceutical
- Microelectronics
- Prefiltration of RO, Pretreatment of seawater desalination
- Power generation condensate system

MATERIALS OF CONSTRUCTION

Outside Diameter
6 inch(152mm)

Filter Media
Pleated Depth Polypropylene(PP)

Support/Drainage
Polypropylene (PP)

End Caps
Polypropylene (PP)

CONFIGURATIONS

Removal Rating (μm)

0.5	1	5	10	20	40	50
70	100	120				

Length (")
16 inch(370mm) for size 1 bag
32inch(634mm) for size 2 bag

Seal Material
EPDM , Buna

SPECIFICATION

Maximum Operating Temperature
80°C

Maximum Operation Differential Pressure
3.4Bar , 80°C

Recommended Change out Differential Pressure
2.4 Bar , 20°C

ORDERING CODE

Example : HMBP-2-B-5-E

	Length(inch/mm)	Flange Types	Removal Rating	O-Ring Material
HMBP	**1** = 16"(370mm) (Size 1 bag) **2** = 32"(634mm) (Size 2 bag)	**B** = for side entry housing **C** = for over the top housing	**0.5** = 0.5μm **1** = 1μm **5** = 5μm **10** = 10μm **20** = 20μm **40** = 40μm **50** = 50μm **70** = 70μm **100** = 100μm **120** = 120μm	**B** = Buna **E** = EPDM



Filter Bag

Filter bags are made of high-quality PP or PET or Nylon or PTFE media.
Different styles are available for different application requirements.
It is your standard and economical option.

APPLICATIONS

- Water treatment
- Chemical
- Mechanical
- Food and beverage
- Pharmaceutical
- Microeletronics

BENEFITS

- Excellent chemical compatibility
- Various media types and sizes
- Nominal micron rating and absolute micron rating are available

MATERIALS OF CONSTRUCTION

Diameter

Size 1:Φ180×L420
Size 2:Φ180×L810
Size 3:Φ102×L220
Size 4:Φ102×L380
Size 5:Φ150×L510

Filter Media

PP, PET, Nylon , PTFE

Collar Media

Stainless Steel , PP , PET , PTFE

SPECIFICATION

Maximum Operating Temperature

PP: 80°C
PET: 120°C
Nylon: 160°C
PTFE: 200°C

Maximum Operation Differential Pressure

PP: 2.0 Bar @ 20°C
1.0 Bar @ 80°C
PET: 2.0 Bar @ 20°C
1.0 Bar @ 80°C
Nylon: 2.0 Bar @ 20°C
1.0 Bar @ 120°C
PTFE: 2.0Bar @ 25°C
1.0Bar @180°C

CONFIGURATIONS

Removal Rating (μm)

PP	0.5	1	3	5	10	25	50	70	100	150	200
PET	0.5	1	3	5	10	25	50	70	100	150	200
Nylon	20	25	50	70	100	150	180	200	300	400	600
	800	1000	1200	2000							
PTFE	0.5	1	10								

ORDERING CODE

Example : HMB-1-PP-W-10-PP

Dimension(mm)	Media	Body Construction	Removal Rating			
			PP	PET	Nylon	PTFE
HMB	PP = PP	W = Welded	0.5 = 0.5μm	0.5 = 0.5μm	20 = 20μm	0.5 = 0.5μm
1 = Size 1:Ø180×L420	PE = PET	S = Sewn	1 = 1μm	1 = 1μm	25 = 25μm	1 = 1μm
2 = Size 2:Ø180×L810	NY = Nylon		3 = 3μm	3 = 3μm	50 = 50μm	10 = 10μm
3 = Size 3:Ø102×L220	PTFE = PTFE		5 = 5μm	5 = 5μm	70 = 70μm	
4 = Size 4:Ø102×L380			10 = 10μm	10 = 10μm	100 = 100μm	
5 =Size 5:Ø150×L510			25 = 25μm	25 = 25μm	150 = 150μm	
			50 = 50μm	50 = 50μm	180 = 180μm	
			70 = 70μm	70 = 70μm	200 = 200μm	
			100 = 100μm	100 = 100μm	400 = 400μm	
			150 = 150μm	150 = 150μm	600 = 600μm	
			200 = 200μm	200 = 200μm	800 = 800μm	
					1000 = 1000μm	
					1200 = 1200μm	
					2000 = 2000μm	

Collar Media

SS = Stainless Steel Ring
PP-E = PP Eaton Style Ring
PP-F = PP FSI Style Ring
PET-E = PET Eaton Style Ring
PET-F = PET FSI Style Ring
PTFE-E = PTFE Eaton Style Ring
PTFE-F = PTFE FSI Style Ring



BW Series: Brackish water reverse osmosis membrane

BW series Brackish water reverse osmosis membrane elements are suitable for desalination treatment of surface water, ground water, and reclaimed water with a salt concentration of less than 8000mg/L. It can be widely used in fields such as electronics, power, steel, thermoelectric, petrochemical, pharmaceutical, coal chemical, and food processing, etc.

LP Series: Low pressure reverse osmosis membrane

LP low-pressure series reverse osmosis membrane elements are suitable for desalination treatment of municipal tap water and groundwater with a salt concentration of less than 2000mg/L. Widely used in areas such as differentiated water supply for residents, purified water preparation plants, and food production.

ULP Series: Ultra-low pressure reverse osmosis membrane

ULP low-pressure series reverse osmosis membrane elements are suitable for industries such as food production with salt concentrations below 1500mg/L, municipal water, purified water preparation, irrigation water, and secondary water supply for two-stage membrane systems, etc.

FR Series: Industrial membrane element

FR Series Anti-Fouling series membranes are mainly used for the treatment of wastewater and reuse of reclaimed water in power, steel, electroplating, petrochemical, coal chemical, printing and dyeing, paper making, garbage infiltration, and other industries with salt concentrations below 10000mg/L.

BENEFITS

- Competitive cost and wide applicability.
- High rejection rate and stability.
- High permeability and high capacity.
- Low pressure operation, low energy consumption.

PRODUCT PARAMETER

MODEL	ACTIVE MEMBRANE AREA (M^2)	AVERAGE PERMEATED FLOW (M^3/D)	STABLE REJECTION RATE (%)	TESTING PRESSURE (PSI)
HMBW-8040	400(37.2)	10500(39.7)	99.6	225
HMBW-4040	85(7.9)	2300(9.4)	99.6	225
HMBW-8040FR	400(37.2)	10500(39.7)	99.7	225
HMBW-4040FR	85(7.9)	2300(8.7)	99.6	225
HMLP-8040	400(37.2)	11000(41.6)	99.5	150
HMLP-4040	85(7.9)	2400(9.8)	99.5	150
HMULP-8040	400(37.2)	11500(43.5)	99.5	150
HMULP-4040	85(7.9)	2500(9.46)	99.5	150

STANDARD TEST CONDITIONS

TESTING SOLUTION CONCENTRATION	TEMPERATURE OF TESTING SOLUTION (°C)	PH VALUE	RECOVERY RATE (%)	MAXIMUM WATER SDL
2000ppm(NaCl)	25±2	7.5-8	15±1	5



Seawater Series Membrane Element

The Seawater series membrane elements are suitable for the treatment of seawater, sub seawater, and high concentration brackish water. They can be used for various industrial water treatment such as seawater desalination, high concentration brackish water desalination, power plant boiler makeup water, and can also be used in various application fields such as wastewater reuse and landfill leachate treatment.

BENEFITS

- Water source purification and energy conservation.
- High rejection rate and concentration rate.
- High stability and reliability.

PRODUCT PARAMETERS

MODEL	ACTIVE MEMBRANE AREA (M^2)	AVERAGE PERMEATED FLOW (M^3/D)	STABLE REJECTION RATE (%)	TESTING PRESSURE (PSI)
HMSW-8040-330	330(30.6)	6000(22.7)	99.7	800
HMSW-8040-380	380(35.2)	6800(25.7)	99.7	800
HMSW-4040	80(7.4)	1600(6.1)	99.5	800
HMSW-2540	28(2.6)	600(2.3)	99.5	800
HMSW-4021	33(3.1)	800(3.02)	99.5	800
HMSW-2521	12(1.1)	250(0.95)	99.5	800

STANDARD TEST CONDITIONS

TESTING SOLUTION CONCENTRATION	TEMPERATURE OF TESTING SOLUTION (℃)	PH VALUE	RECOVERY RATE (%)
32800ppm(NaCl)	25±2	7.5-8	8%(8040/4040/2540 series) 4%(4021/2521 series)

LIMIT SERVICE CONDITIONS

MAXIMUM OPERATING PRESSURE	MAXIMUM WATER TEMPERATURE(℃)	MAXIMUM WATER SDL	FREE OXYGEN CONCENTRATION OF INFLUENT WATER	WATER PH RANGE FOR CHEMICAL CLEANING
1000psi	45	5	<0.1ppm	2-12





PP Or Glass Fiber Pleated Depth Media Filter Cartridge

High surface area pleated cartridges have been developed to suit industrial processes where high levels of efficiency and extremely low-pressure loss are required. In-house developments have optimized the filter media to give higher porosity levels, and state-of-the-art manufacturing technologies provide excellent build quality. Three standard media options are available. Other media options are available for special applications.

APPLICATIONS

- Pharmaceutics
- Food and beverage
- Oil & gas
- Microelectronics
- Chemical
- Prefiltration for RO
- Photographic solutions

BENEFITS

- Nominal micron rating and absolute micron rating are available.
- Low-pressure drop, long service life
- Graded pore density for high dirt holding capacity
- Wide chemical compatibility using 100% polypropylene to meet FDA requirements

MATERIALS OF CONSTRUCTION

Outside Diameter
2.7" (69mm)

Filter Media
PP or Glass Fiber

Support/Drainage
Polypropylene (PP)

Cage/Core/End cap
Polypropylene (PP)

CONFIGURATIONS

Removal Rating (µm)

PP	0.1	0.22	0.45	1	3	5	10
	20	50					
Glass Fiber	0.5	1	2	3	5	10	20
	30	40					

Length (")

5	9.75	10	20	30	40

Seal Material

S = Silicone	E = EPDM	B = Buna
V = Viton	T = Teflon	F = E-FKM

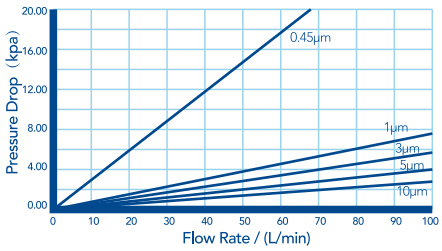
SPECIFICATION

Maximum Operating Temperature
PP : 80°C @1Bar,
support adaptors are recommended
for temperature exceeds 50°C

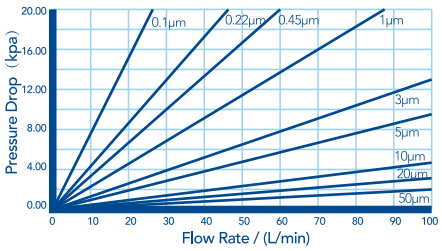
Glass Fiber : 110°C @1Bar,
support adaptors are recommended
for temperature exceeds 80°C

Maximum Operation Differential Pressure
4.0 Bar @ 20°C
2.4 Bar @ 80°C

Glass Fiber Flow Characteristics



PP Flow Characteristics



END CAP CONFIGURATION



ORDERING CODE

Example : HMD-PN-5-10-0-S-P

	Media	Removal Rating		Length	End Cap Type	Seal Material	Core
		PP	Glass Fiber				
HMD	**GF** = Glass Fiber **PN** = PP Nominal **PA** = PP Absolute	**0.1** = 0.1µm **0.22** = 0.22µm **0.45** = 0.45µm **1** = 1µm **3** = 3µm **5** = 5µm **10** = 10µm **20** = 20µm **50** = 50µmm	**0.5** = 0.5µm **1** = 1µm **2** = 2µm **3** = 3µm **5** = 5µm **10** = 10µm **20** = 20µm **30** = 30µm **40** = 40µm	**5** = 5" **975** = 9.75" **10** = 10" **20** = 20" **30** = 30" **40** = 40"	**0** = DOE **5** = 213/Flat **2S** = 222/Flat/SS **4S** = 222/Fin/SS **2** = 222/Flat **4** = 222/Fin **3** = 226/Fin **3S** = 226/Fin/SS **1** = 226/Flat **1S** = 226/Flat/SS	**S** = Silicone **E** = EPDM **B** = Buna **V** = Viton **T** = Teflon **F** = E-FKM	**P** = PP Core **S** = SS Core



Polyethersulfone (PES) Pleated Filter Cartridge

PES Pleated Filter Cartridge is constructed of imported polyethersulfone (PES) membrane media and nonwoven support materials. The cage, core, and end caps material are polypropylene. Adaptors are thermally welded with media without using any glue on that.

APPLICATIONS

- Pharmaceutics
- Sterile for food and beverage
- Fine filtration for chemical industry
- Fine filtration for wine or ultra pure water

BENEFITS

- Excellent performance of chemical compatibility
- Hydrophilic and asymmetric membrane with high flow
- No fiber-releasing according to pharmaceutics and food industry requirements
- Experiencing 100% integrity tested
- Flushed with ultrapure water
- FDA compliance material

MATERIALS OF CONSTRUCTION

Outside Diameter
2.7" (69mm)

Filter Media
Polyethersulfone (PES)

Support
Polypropylene (PP)

Cage/Core/End cap
Polypropylene (PP)

CONFIGURATIONS

Removal Rating (μm)

0.1	0.22	0.45	0.65	0.8	1.2

Length (")

9.75	10	20	30	40

Seal Material

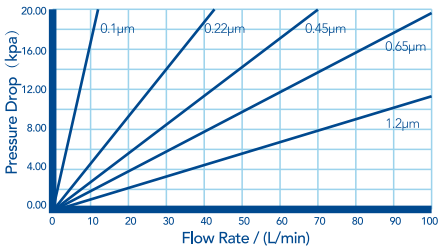
S = Silicone	E = EPDM	B = Buna
V = Viton	T = Teflon	F = E-FKM

SPECIFICATION

Maximum Operating Temperature
PES : 80°C

Maximum Operation Differential Pressure
4.2 Bar @ 21°C

Flow Characteristics



END CAP CONFIGURATION

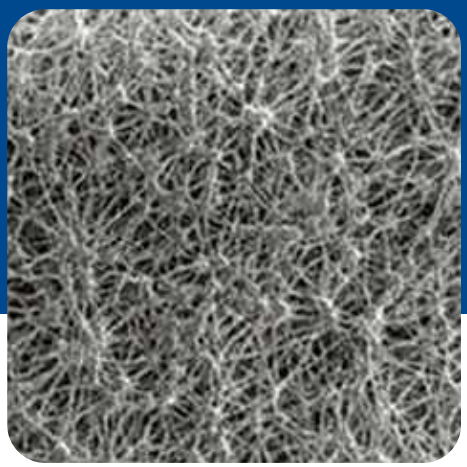


ORDERING CODE

Example : HMPES-0.22-10-0-S-P

	Removal Rating	Length	End Cap Type	Seal Material	Core
HMPES	**0.1** = 0.1μm **0.22** = 0.22μm **0.45** = 0.45μm **0.65** = 0.65μm **0.8** = 0.8μm **1.2** = 1.2μm	**975** = 9.75" **10** = 10" **20** = 20" **30** = 30" **40** = 40"	**0** = DOE **5** = 213/Flat **2S** = 222/Flat/SS **4S** = 222/Fin/SS **2** = 222/Flat **4** = 222/Fin **3** = 226/Fin **3S** = 226/Fin/SS **1** = 226/Flat **1S** = 226/Flat/SS **3P** = 226/Fin/PSU **1P** = 226/Flat/PSU	**S** = Silicone **E** = EPDM **B** = Buna **V** = Viton **T** = Teflon **F** = E-FKM	**P** = PP Core **S** = SS Core





Nylon66 Pleated Filter Cartridge

Nylon Pleated Filter Cartridge is constructed of Nylon66 media and non-woven support materials. Adaptors are thermally welded with media without using any glue, which is free from pollution.

APPLICATIONS

- Pharmaceuticals
- Food and beverage
- Semiconductor

BENEFITS

- Processing better performance of high-temperature resistance, acid, and base resistance
- Hydrophilic membrane with high flow
- Non-fiber releasing according to pharmaceutics and food industry requirements
- 100% integrity tested
- Flushed with ultrapure water

MATERIALS OF CONSTRUCTION

Outside Diameter
2.7" (69mm)

Filter Media
Nylon66

Support/Drainage
Polypropylene (PP)

Cage/Core/End cap
Polypropylene (PP)

CONFIGURATIONS

Removal Rating (μm)

0.1	0.22	0.45	0.65	1	3	5

Length (")

9.75	10	20	30	40

Seal Material

S = Silicone	E = EPDM	B = Buna
V = Viton	T = Teflon	F = E-FKM

SPECIFICATION

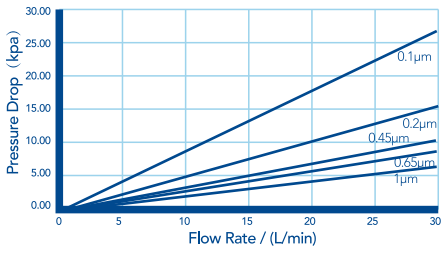
Maximum Operating Temperature
Nylon66 : 60°C

Maximum Operation Differential Pressure
4.2 Bar @ 25°C

Maximum Differential Pressure (reverse direction)
2.1 Bar @ 25°C

Maximum Temperature Sterilization
30 times, 30 minutes @ 121°C

Pressure Drop vs Flow Rate@20°C



END CAP CONFIGURATION

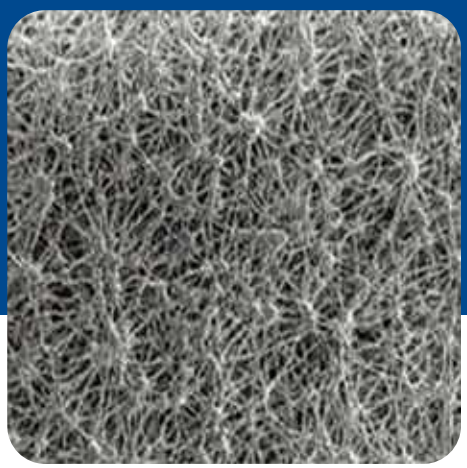


ORDERING CODE

Example : HMNY-5-10-0-S

	Removal Rating	Length	End Cap Type	Seal Material	Core
HMNY	**0.1** = 0.1μm **0.22** = 0.22μm **0.45** = 0.45μm **0.65** = 0.65μm **1** = 1μm **3** = 3μm **5** = 5μm	**975** = 9.75" **10** = 10" **20** = 20" **30** = 30" **40** = 40"	**0** = DOE **5** = 213/Flat **2S** = 222/Flat/SS **4S** = 222/Fin/SS **2** = 222/Flat **4** = 222/Fin **3** = 226/Fin **3S** = 226/Fin/SS **1** = 226/Flat **1S** = 226/Flat/SS	**S** = Silicone **E** = EPDM **B** = Buna **V** = Viton **T** = Teflon **F** = E-FKM	**P** = PP Core **S** = SS Core





Hydrophobic PTFE Or Hydrophilic PTFE Pleated Filter Cartridge

PTFE Pleated Filter Cartridge is constructed of imported natural Polytetrafluoroethylene membrane media and non-woven support materials. Adaptors are thermally welded with media without using any glue which is free from pollution.

APPLICATIONS

- Fermentation tank
- vent filter of hold tank
- Electronic industry
- Semiconductor: ultrapure gas filtration
- Chemical industry

BENEFITS

- Excellent performance of high temperature-resistance, repeat steam ability in situ.
- Low pressure drop, high flow rate, long service life
- 100% integrity tested
- No fiber-releasing
- FDA compliance material

MATERIALS OF CONSTRUCTION

Outside Diameter
2.7" (69mm)

Filter Media
Hydrophobic PTFE or Hydrophilic PTFE

Support
Polypropylene (PP)

Cage/Core/End cap
Polypropylene (PP)

CONFIGURATIONS

Removal Rating (μm)

For Gas :	0.01	0.02		
For Liquid :	0.1	0.22	0.45	1

Length (")

5	9.75	10	40	30	40

Seal Material

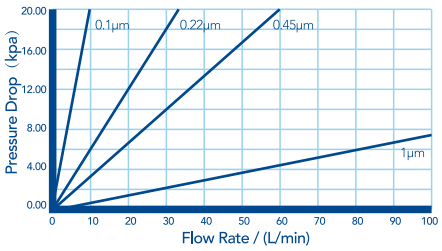
S = Silicone	E = EPDM	B = NBR
V = Viton	T = Teflon	F = E-FKM

SPECIFICATION

Maximum Operating Temperature
PTFE : 80°C

Maximum Operation Differential Pressure
4.2 Bar @ 21°C
2.1 Bar @ 80°C

Flow Characteristics



END CAP CONFIGURATION



ORDERING CODE

Example : HMPTFE-HO-0.22-10-0-S-P

	Media	Removal Rating	Length	End Cap Type	Seal Material	Core
HMPTFE	**HO** = Hydrophobic **HP** = Hydrophilic	**0.1** = 0.1μm **0.22** = 0.22μm **0.45** = 0.45μm **1** = 1μm	**5** = 5" **975** = 9.75" **10** = 10" **20** = 20" **30** = 30" **40** = 40"	**0** = DOE **5** = 213/Flat **2S** = 222/Flat/SS **4S** = 222/Fin/SS **2** = 222/Flat **4** = 222/Fin **3** = 226/Fin **3S** = 226/Fin/SS **1** = 226/Flat **1S** = 226/Flat/SS	**S** = Silicone **E** = EPDM **B** = NBR **V** = Viton **T** = Teflon **F** = E-FKM	**P** = PP Core **S** = SS Core



OD83 or OD131 Pleated Filter Cartridge

OD83 or OD131 Pleated filter cartridge is designed for the filtration in the wetting process in the flat panel display.

APPLICATIONS

- Water treatment in microelectronics
- Chemical filtration in microelectronics

BENEFITS

- Larger filtration area, longer service life
- Save cost and easy to replace
- Many media types and micron ratings available
- Safe and reliable material

MATERIALS OF CONSTRUCTION

Outside Diameter
83mm,131mm

Filter Media
PP, PES, Hydrophobic PTFE, Hydrophilic PTFE

Support
Polypropylene (PP)

Core/End cap
Polypropylene (PP)

SPECIFICATION

Maximum Operating Temperature
PP : 80°C

Maximum Operation Differential Pressure
4.0 Bar @ 21°C ; 2.4 Bar @ 80°C

CONFIGURATIONS

Removal Rating (μm)

PP	0.1	0.22	0.45	0.5	1	1.2	3	5	10	20	50	70
PES	0.04	0.1	0.22	0.45	0.65	1.2						
Hydrophobic PTFE	0.01	0.02	0.05	0.1	0.22	0.45	1	5	10			
Hydrophilic PTFE	0.05	0.1	0.22	0.45	1							

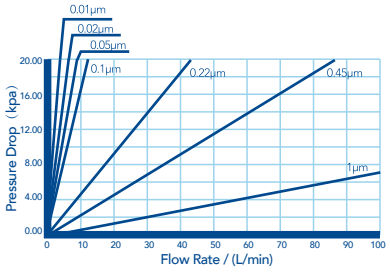
Length (")

10

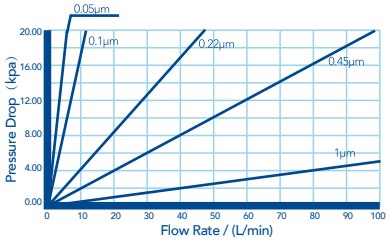
Seal Material

E = EPDM	V = Viton	T = Teflon

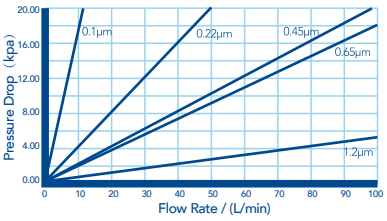
OD83 SERIES



Hydrophobic PTFE

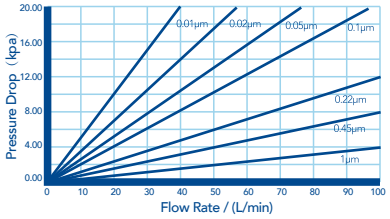


Hydrophilic PTFE

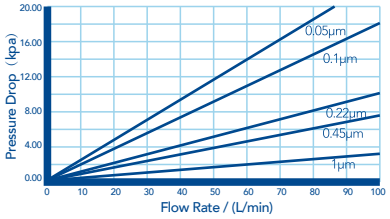


PES

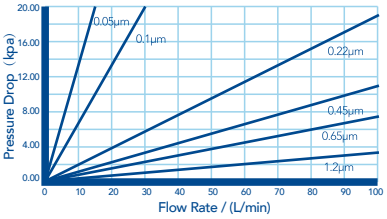
OD131 SERIES



Hydrophobic PTFE



Hydrophilic PTFE



PES

ORDERING CODE

Example : HMOD-832-PP-0.22-E

	Cartridge Type	Media Type	Micron Rating			O-ring Material
HMOD	**832** = Diameter 83mm, 222 Flat double o-ring **836** = Diameter 83mm,226 Flat double o-ring **131** = Diameter 131mm,334 single o-ring	**PP** = PP Pleated **PES** = PES **HOPT** = Hydrophobic PTFE **HIPT** = Hydrophilic PTFE	**PP** **0.1** =0.1μm **0.22** = 0.22μm **0.45** = 0.45μm **0.5** = 0.5μm **1** = 1μm **1.2** =1.2μm **3** = 3μm **5** = 5μm **10** = 10μm **20** = 20μm **50** = 50μm **70** = 70μm	**PES** **0.04** = 0.04μm **0.1** = 0.1μm **0.22** = 0.22μm **0.45** = 0.45μm **0.65** = 0.65μm **1.2** = 1.2μm **Hydrophilic PTFE** **0.05** = 0.05μm **0.1** =0.1μm **0.22** = 0.22μm **0.45** = 0.45μm **1** = 1μm	**Hydrophobic PTFE** **0.01** = 0.01μm **0.02** = 0.02μm **0.05** = 0.05μm **0.1** =0.1μm **0.22** = 0.22μm **0.45** = 0.45μm **1** = 1μm **5** = 5μm **10** = 10μm	**E** = EPDM **V** = Viton **T** = Teflon



Big Blue Pleated Filter Cartridge

Big blue Pleated filter cartridge can replace the conventional depth big blue filters to improve the output and reduce the costs.

APPLICATIONS

- Drinking water
- Commercial water treatment
- RO Pre-filtration
- Small and medium size water treatment systems

BENEFITS

- Larger filtration area, longer service life
- High performance filter media for high efficiency
- Easy to replace the conventional big blue systems
- Many media types and micron ratings available
- FDA compliant material

MATERIALS OF CONSTRUCTION

Outside Diameter
113mm

Inside Diameter
28mm

Filter Media
PP, Glass Fiber, PES

Support
Polypropylene (PP)

Cage/End cap
Polypropylene (PP)

CONFIGURATIONS

Removal Rating (μm)

PP	0.1	0.22	0.45	0.5	1	1.2	3	5	10	20	50
PES	0.1	0.22	0.45	0.65	1.2						
Glass Fiber	0.45	1	3	5	10	20					

Length (")

10	20

Seal Material

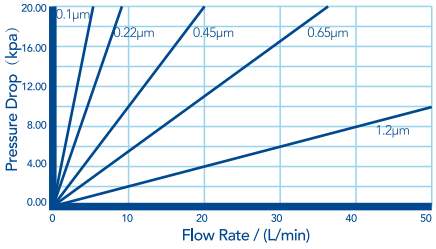
S = Silicone	E = EPDM

SPECIFICATION

Maximum Operating Temperature
PP : 80°C

Maximum Operation Differential Pressure
4.0 Bar @ 21°C
2.4 Bar @ 80°C

Flow Characteristics



ORDERING CODE

Example : HMPBB-PP-0.5-10-E

Media Type		Micron Rating			O-ring Material
HMPBB –	**PP** = PP Pleated **GF** = Glass Fiber **PES** = PES –	**PP** **0.1** = 0.1μm **0.22** = 0.22μm **0.45** = 0.45μm **0.5** = 0.5μm **1** = 1μm **1.2** = 1.2μm **3** = 3μm **5** = 5μm **10** = 10μm **20** = 20μm **50** = 50μm	**PES** **0.1** = 0.1μm **0.22** = 0.22μm **0.45** = 0.45μm **0.65** = 0.65μm **1.2** = 1.2μm	**Glass Fiber** **0.45** = 0.45μm **1** = 1μm **3** = 3μm **5** = 5μm **10** = 10μm **20** = 20μm	– **S** = Silicone **E** = EPDM



Activated Carbon Fiber Pleated Filter Cartridge

Activated carbon fiber pleated filter cartridge is made of excellent activated carbon fiber and polypropylene components for high precision filtration. It has excellent ability to remove the odor, color and chlorine in liquid.

APPLICATIONS

- Remove the color of intermediates in pharmaceuticals industry
- Organic impurities, chlorine and heavy metal ions removal in bottled water industry
- Alcohol clarification
- Remove the color in the organic solvent

BENEFITS

- High dirt holding capacity and no carbon fiber release
- Excellent adsorptive capacity, high particles removal efficiency
- High chlorine taste and odor reduction
- Board chemical compatibility, resistant to acids and bases
- No hazardous substances releasing

MATERIALS OF CONSTRUCTION

Outer Diameter
69mm(2.75'')

Inner Diameter
33mm(1.30'')

Filter Media
Activated Carbon Fiber (ACF)

Support Layers
Polypropylene

Inner core
Polypropylene

Outer Cage, End caps
Polypropylene

CONFIGURATIONS

Removal Rating (μm)

1	3	5

Length (")

5	975	10	20	30	40

O-rings / Gaskets

S = Silicone	E = EPDM	B = NBR
V = Viton	F = E-FKM	

Seal Method
Thermal Bonded, No Adhesives

SPECIFICATION

Filtration Area(m^2)
0.5 m^2 per 10''

Normal Operating Temperature
Up to 50°C (122°F)

Max.Operating Temperature
80°C (176°F) at P≤ 1.0 bar (14psi)

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

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

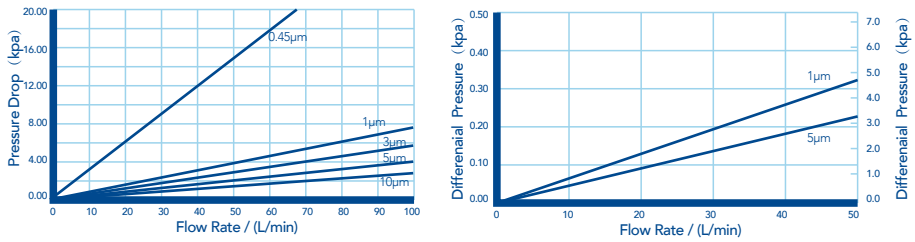
PH Value compatibility
2-13

Sterilization
Flush with hot water at 82°C (180°F) for 30 minutes

Endotoxin
<0.25 EU/ml

Extractables
0.03g / 10"

GS Flow Characteristics



END CAP CONFIGURATION



ORDERING CODE

Example : HMACF-3-10-0-S-P

	Removal Rating	Length	End Cap Type	Seal Material	Core
HMACF –	**1** = 1μm **3** = 3μm **5** = 5μm –	**5** = 5″ **975** = 9.75″ **10** = 10″ **20** = 20″ **30** = 30″ **40** = 40″ –	**0** = DOE **5** = 213/Flat **2S** = 222/Flat/SS **4S** = 222/Fin/SS **2** = 222/Flat **4** = 222/Fin **3** = 226/Fin **3S** = 226/Fin/SS **1** = 226/Flat **1S** = 226/Flat/SS –	**S** = Silicone **E** = EPDM **B** = NBR **V** = Viton **F** = E-FKM –	**P** = PP Core **S** = SS Core



Hydrophilic PVDF Pleated Filter Cartridge

This type has excellent resistance to high temperature and corrosion resistance, no fiber shedding. Filter media has good hydrophilicity, no need to do pre-wetting before filtration.

APPLICATIONS

- Pharmaceutics
- Food and beverage
- Microelectronics
- Chemical

BENEFITS

- No need to do pre-wetting before filtration.
- Excellent chemical compatibility
- Absolute filtration efficiency
- 100% integrity tested and material meet FDA requirements

MATERIALS OF CONSTRUCTION

Outside Diameter
2.7" (69mm)

Filter Media
Hydrophilic PVDF

Support/Drainage
Polypropylene (PP)

Cage/Core/End cap
Polypropylene (PP)

CONFIGURATIONS

Removal Rating (µm)

0.1	0.22	0.45	0.65	0.8	1.2

Length (")

5	9.75	10	20	30	40

Seal Material

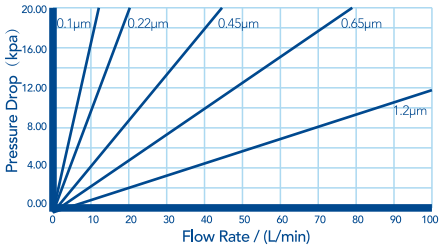
S = Silicone	E = EPDM	B = NBR
V = Viton	T = Teflon	F = E-FKM

SPECIFICATION

Maximum Operating Temperature
PVDF : 80°C

Maximum Operation Differential Pressure
4.0 Bar @ 20°C
2.4 Bar @ 80°C

Flow Characteristics



END CAP CONFIGURATION



ORDERING CODE

Example : HMPVDF-P-0.22-10-0-S-P

	Removal Rating	Length	End Cap Type	Seal Material	Core
HMPVDF	**0.1** = 0.1µm **0.22** = 0.22µm **0.45** = 0.45µm **0.65** = 0.65µm **0.8** = 0.8µm **1.2** = 1.2µm	**5** = 5" **975** = 9.75" **10** = 10" **20** = 20" **30** = 30" **40** = 40"	**0** = DOE **5** = 213/Flat **2S** = 222/Flat/SS **4S** = 222/Fin/SS **2** = 222/Flat **4** = 222/Fin **3** = 226/Fin **3S** = 226/Fin/SS **1** = 226/Flat **1S** = 226/Flat/SS	**S** = Silicone **E** = EPDM **B** = NBR **V** = Viton **T** = Teflon **F** = E-FKM	**P** = PP Core **S** = SS Core



Hydrophobic PTFE Or Hydrophilic PTFE Pleated Filter Cartridge with PVDF Cage

HMPF series filter cartridges are designed with PTFE membrane, ECTFE support layer and PVDF outer cage and can resist strong acids, strong bases, organic solvents and corrosive fluids. Flexibility to choose hydrophpbic (HO) orhydrophilic (HP) PTFE membrane to suit different applications.

APPLICATIONS

- Sterile filtration for various water-soluble solvents in the pharmaceutical industry.
- Microelectronics semiconductor industry for wet etching and washing process water.
- Eye drops, sterile filtration of antibiotics.
- Sterile filtration of highly corrosive solvents and organic solvents.
- Filtration of highly corrosive water-soluble chemicals.
- Respirators, fermentation tank, gas sterilization filtration.

BENEFITS

- Excellent performance of high temperature-resistance,repeat steam ability in situ
- Excellent chemical compatibility
- Absolute filtration efficiency
- 100% integrity tested and material meet FDA requirements

MATERIALS OF CONSTRUCTION

Outside Diameter
2.7" (69mm)

Filter Media
Hydrophobic PTFE or Hydrophilic PTFE

Support
ECTFE

Cage/Core/End cap
PFA,PVDF

CONFIGURATIONS

Removal Rating (μm)

0.05	0.1	0.22	0.45	1	10

Length (")

5	9.75	10	20	30	40

Seal Material

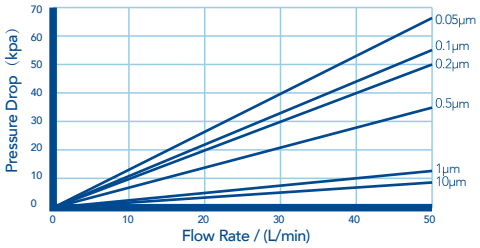
S = Silicone	E = EPDM	B = NBR
V = Viton	T = Teflon	F = E-FKM

SPECIFICATION

Maximum Operating Temperature
120°C

Maximum Operation Differential Pressure
Forward 0.42Mpa
Reverse 0.21Mpa

Differential Pressure vs.Flow rate(10")



END CAP CONFIGURATION



ORDERING CODE

Example : HMPF-HO-0.22-10-4-W

	PTFE Media	Removal Rating	Length	End Cap Type	Seal Material	Package
HMPF	**HO** = Hydrophobic **HP** = Hydrophilic	**0.05** = 0.05μm **0.1** = 0.1μm **0.22** = 0.22μm **0.45** = 0.45μm **1** = 1μm **10** = 10μm	**5** = 5" **975** = 9.75" **10** = 10" **20** = 20" **30** = 30" **40** = 40"	**0** = DOE **2S** = 222/Flat/SS **4S** = 222/Fin/SS **2** = 222/Flat **4** = 222/Fin **5** = 213/Flat **3** = 226/Fin **3S** = 226/Fin/SS **1** = 226/Flat **1S** = 226/Flat/SS	**S** = Silicone **E** = EPDM **B** = NBR **V** = Viton **T** = Teflon **F** = E-FKM	**Blank** = No Pre-wetting **W** = Pre-wetting



String Wound Power Plant Filter Cartridge

HMPSW string wound filter cartridge is washable depth filter with high performance fiber (polypropylene, cotton, glass fiber etc.,). It can be easily change-out to save labor and get large filtration area and long service life with high flow rate.

APPLICATIONS

- Power plant condensate polishing system
- RO Prefiltration, sea water desalination
- Filtration of bottled water, make-up water, rinsing water
- Paints and coatings, petrochemical, refineries

MATERIALS OF CONSTRUCTION

Outer Diameter
50mm or 60mm

Inner Diameter
25mm or 28mm

Filter Media
Polypropylene,Cotton,Glass Fiber

Support core/caps
Stainless Steel 304 or 316

Connection type
Thread

Connection size
M33×1.5 (internal thread)
M33×2 or customized as customer request

BENEFITS

- Directly installed into existed housings
- High mechanical strength,withstand harsh processing conditions
- Up to70" length with high flow and high dirt holding capacity

SPECIFICATION

Maximum Operating Temperature
85°C

Maximum Operation Differential Pressure
3.0 bar @ 90°C

Design Flow Rate
2.2m³/h - 2.8m³/h (Recomended 2.5m³/h)

CONFIGURATIONS

Removal Rating (μm)

1	5	10

Length (")

40	60	70

Core
SS304 , SS316

ORDERING CODE

Example : HMPSW-CT-1-S4-60-Z3-M8

	Media	Micron	Core	Length	Connection Thread	Bottom Thread
HMPSW	**PP** = Polypropylene **CT** = Cotton **GF** = Glass Fiber	**1** = 1μm **5** = 5μm **10** = 10μm	**S4** = SS304 **S6** = SS316	**40** = 40" **60** = 60" **70** = 70"	**Z1** = M33×1.5 **Z2** = M33×2 **Z3** = G1" **Z4** = 13/16"-24BSW	**M6** **M8** **M10**



PP Pleated Power Plant Filter Cartridge

This pleated backwash filter cartridge is most widely used in condensate polishing pre-filtration in domestic and abroad.The Pleated design has an increased filtration area and wide chemical compatibility. It can be welded by 7pcs×10" parts or 3pcs×20+10" parts or 40"+30" parts.

APPLICATIONS

- Power plant condensate polishing system
- RO Prefiltration, sea water desalination
- Filtration of bottled water, make-up water, rinsing water
- Paints and coatings, petrochemical, refineries

MATERIALS OF CONSTRUCTION

Filter Media
Polypropylene

Support core/caps
Polypropylene

Connection type
Thread

Connection size
1 1/2''-12 (Internal Thread)
M33×1.5 (Internal Thread) customized as customer request

Outer Diameter
65mm or 69mm

CONFIGURATIONS

Removal Rating (μm)

1	4	5	10

Length (")

60	70

SPECIFICATION

Filtration Area
0.65m²/10''

Maximum Operating Temperature
85°C

Maximum Differential Pressure
2.8 Bar , 65°C

Maximum Differential Pressure
2.1 Bar , 21°C

Flow of Single Cartridge(m³/h)
3.9 - 4.5

Backwashing Flow
In the 1.36 - 2.10 Bar pressure,
Backwashing Flow of single cartridge is 0.45 - 0.68m³/h

Backwashing Air Flow
In the 1.36-2.10 Bar pressure,
Backwashing Flow of single cartridge is 3.4 - 5m³/h

BENEFITS

- Backwash design
- Using thread connection, easy installation, high dirt holding capacity
- Wide chemical compatibility
- Resin pre-coat can be done before filtration

ORDERING CODE

Example : HMPC-PP-5-B-70-Z-M6

	Media	Micron	Structure Type	Length	Connection Thread	Bottom Thread
HMPC	**PP**= Polypropylene	**1** = 1μm **4** = 4μm **5** = 5μm **10** = 10μm	**A** = 7pcs×10" **B** = 3pcs×20+10" **C** = 40"+30" **D** = 3pcs×20"	**60** = 60"(1524mm) **70** = 70"(1778mm)	**Z** = 1 1/2"-12	**3/8** **M6** **M8** **M10**



Offshore Pleated Filter Cartridge

Offshore pleated filter cartridges is widely used in the offshore injection water treatment. Due to large filter area and design, The number of cartridges are reduced. It has netting type and cage type for customer option.

APPLICATIONS

- Chemical
- Oil & gas Industry
- Metal treatment process water
- Electronics
- Prefiltration

MATERIALS OF CONSTRUCTION

Outside Diameter
64mm , 66mm (netting type only)
69mm (netting type only)

Inside Diameter
28mm

Filter Media
PP, Glass Fiber, Polyester

Cage
Polypropylene(PP)

SPECIFICATION

Operating Pressure and temperature
The pleated cartridge structre will withstand differential
Pressures up to 60 psi (4Bar) at ambient temperature.
The optimum changeout differential pressure is 35psi(2.5Bar) up to 52°C.

Service condition
500 Kpa (5Bar) by 20°C
300 Kpa (3Bar) by 65°C
Beta: 5000(99.98% removal efficiency) for glass fiber media.
Construction: Fully thermal welded.

CONFIGURATIONS

Removal Rating (μm)

1	3	5	10	25	50

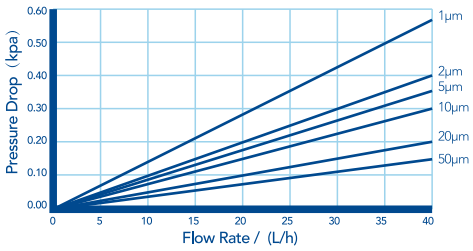
Length (")

30	40

Seal Material
Silicone, EPDM, Buna, Viton

End Cap Types
DOE, 222/Flat End

Flow Characteristics



BENEFITS

- Large filter area and depth filtration provide a long lifetime.
- Low cost because of large filter area and reduced labor costs to change.
- The sbsolute glass fiber media supplies optimal efficiency of solids removal.

ORDERING CODE

Example : HMOP-64-5-40-2T-E-P-N

	OD	Micron	Length	End Cap	O-Ring/Gasket	Media	Type
HMOP	**64** = 64mm **66** = 66mm (netting type only) **69** = 69mm (netting type only)	**1** = 1μm **3** = 3μm **5** = 5μm **10** = 10μm **25** = 25μm **50** = 50μm	**30** = 30" **40** = 40"	**D** = DOE **2T** = 222/Flat	**S** = Silicone **B** = Buna **E** = EPDM **V** = Viton	**P** = PP **G** = Glass Fiber **T** = Polyester	**C** = Cage **N** = Netting



Lenticular Filter

Lenticular filter is made of depth filter sheets. It is widely used in wine and beer filtration.
Also used well in pharmaceutical and other applications.

APPLICATIONS

- Pharmaceutics
- Food and beverage
- Fine chemical
- Machinery & equipment

MATERIALS OF CONSTRUCTION

Outside Diameter
8",12",16"

Filter Sheet Material
Cellulose fibers, resins,
Perlite, atural diatomaceous
Earths, and etc.,

Core and Separator
Polypropylene (PP)

CONFIGURATIONS

Typical Rating (μm)
H001: 0.04-0.2μm
H002: 0.2-0.4μm
H004: 0.4-0.6μm
H006: 0.6-0.8μm
H100: 1-3μm
H150: 2-5μm
H175: 4-9μm
H200: 3-7μm
H250: 10-15μm
H400: 25-30μm
H500: 40-50μm
H600: 50-60μm

O-ring or Gasket
Silicone, EPDM, NBR

End Cap Types
DOE with Gasket
SOE without double O-ring

BENEFITS
- Back washable
- No filter sheet deformities after heat treatment
- More filtration area

ORDERING CODE

Example : HMLF-12-16-H150-D-S

	Outside Diameter	Construction	Removal Rating	End Cap Type	Seal Material
HMLF	**8** = 8"(8 Cells) **12** = 12"(9 Cells or 15 cells or 16 cells) **16** = 16"(16 cells)	**8** = 8 cells **9** = 9 cells **12** = 12 cells **15** = 15 cells **16** = 16 cells	**H001** = 0.04-0.2mμ **H002** = 0.2-0.4μm **H004** = 0.4-0.6μm **H006** = 0.6-0.8μm **H100** = 1-3μm **H150** = 2-5μm **H175** = 4-9μm **H200** = 3-7μm **H250** = 10-15μm **H400** = 25-30μm **H500** = 40-50μm **H600** = 50-60μm	**D** =DOE with Gasket **S** =SOE without double O-ring	**S** = Silicone **E** = EPDM **B** = NBR





Carbon Lenticular Filter

Carbon Lenticular Filter has activate carbon fiber in the filter based on the standard lenticular filter.

APPLICATIONS

- Removing dissociative chlorine and volatiles organic compounds (VOC) in solution
- Oil and aromatic series in solution
- Remove smell, odor, organic pigment
- Remove metal ion

BENEFITS

- No need to do pre wetting before filtration
- Excellent chemical compatibility
- Absolute filtration efficiency
- 100% integrity tested and material
- meet FDA requirements

MATERIALS OF CONSTRUCTION

Outside Diameter
8'',12'',16''

Filter Sheet Material
Carbon cellulose
Activated carbon resins, and etc

Core and Separator
Polypropylene (PP)

CONFIGURATIONS

Typical Rating (μm)
3-5μm

Double O-ring or flat gasket
Silicone, EPDM, NBR

O-ring or Gasket
Silicone, EPDM, Viton

End Cap Types
DOE with Gasket
SOE without double O-ring

SPECIFICATION

Max Operating Temperature
80°C

Max Operating Drop Pressure
2.0 Bar / 25°C
1.0 Bar / 80°C

ORDERING CODE

Example : HMCLF-12-16-D-S

	Outside Diameter	Construction	End Cap Type	Seal Material
HMLF –	**8** = 8"(8 Cells) **12** = 12"(9 Cells or 15 cells or 16 cells) **16** = 16"(16 cells) –	**8** = 8 cells **9** = 9 cells **12** = 12 cells **15** = 15 cells **16** = 16 cells –	**D** =DOE with Gasket **S** =SOE without double O-ring –	**S** = Silicone **E** = EPDM **B** = NBR



Lenticular Filter Sheets

With excellent clarification performance for reliable removal from particles to microorganisms due to optimal pore structure and adsorption.
Our depth filter sheet's standard range meets demanding liquid filtration requirements. The product's standard range seamlessly covers retention grades between 0.1 and 0.2μm.

APPLICATION RANGE

Wine, beer, fruit juices, sugar, spirits, food, fine/specialty chemistry, biotechnology, pharmaceutical, electronic, cosmetics.

DATA

Type	Speed (△p0.03bar s.50ml.10cm²)	Thickness (mm)	Mass per Unit Area (g/m²)	Nominal retention (μm)	Water Permeability (L/m³ min △= 100kPa)	Dry bursting strength (kPa⩾)	Wet bursting strength (kPa⩾)	Ash ⩽%	color
SCP-309	30″ - 1′30″	3.4 - 4.0	from 1300 to 1450	10.0 - 20.0	425 - 830	550	230	28	yellow
SCP-310	2″ - 5″	3.4 - 4.0		4.0 - 9.0	240 - 320	550	230	28	yellow
SCP-311	1′30″ - 4′	3.4 - 4.0		5.0 - 12.0	350 - 550	550	230	28	yellow
SCP-312	4′ - 7′	3.4 - 4.0		3.0 - 6.0	200 - 280	550	230	35	yellow
SCP-321	7′ - 10′	3.4 - 4.0		1.5 - 3.0	160 - 210	550	200	37.5	yellow
SCP-332	10′ - 20′	3.4 - 4.0		0.8 - 1.5	99 - 128	550	200	49	yellow
SCP-333	20′ - 30′	3.4 - 4.0		0.6 - 1.0	70 - 110	550	200	48	yellow
SCP-334	30′ - 40′	3.4 - 4.0		0.5 - 0.8	65 - 88	550	200	47	yellow
SCP-360	20′ - 30′	3.4 - 4.0		0.6 - 1.0	88 - 119	550	200	43	white
SCP-610	30′ - 40′	3.4 - 4.0		0.5 - 0.8	65 - 88	550	200	47	yellow
SCP-620	40′ - 50′	3.4 - 4.0		0.3 - 0.45	42 - 68	550	180	52	yellow
SCP-640	45′ - 55′	3.4 - 4.0		0.3 - 0.45	23 - 38	450	180	51	yellow
SCP-660	50′ - 70′	3.4 - 4.0		0.2 - 0.4	26 - 47	450	180	52	yellow
SCP-680	60′ - 80′	3.4 - 4.0		0.1 - 0.3	23 - 36	450	180	52	yellow

MATERIAL

Cleaned and bleached cellulose
Cationic wet strength agent
Natural filter aid (kieselgur, perlite)

FORMS OF SUPPLY

All paper sheets are available to fit any filter press sizes and types
folded or single sheets
Format between 10x10 cm to 130x300cm
Square or round
Punch holes
Special customary size

QUALITY ASSURANCE

Quality checks meet international standards:
• ISO 9001:2015 (quality management, for the whole process of design, production of filter board)
• FDA 21 CFR compliance
• GB 4806.8-2016 Nationa | Food Safety Standard Papers, Paperboard Materia | s and Products Contacted with Food
• Record of foreign trade operators
All the certifications prove that a fully functioning comprehensive Quality Assurance System covering product development, contract controls, choice of raw material, receiving inspections, production, final inspection, inventory management, and shipment has been implemented.

PACKAGING

All sheets are hygienically plastic wrapped and packed in cardboard boxes. Special packaging (non-standard sizes or unboxed) is available on request.

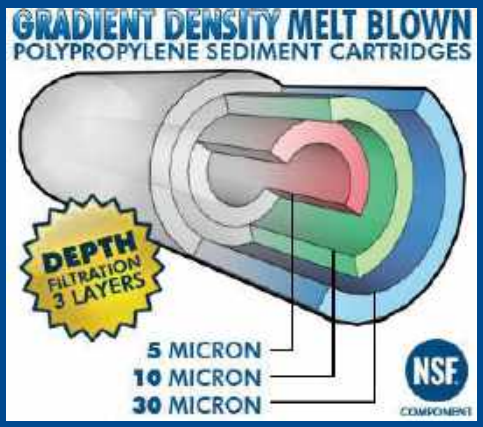
STORAGE PERIOD AND CONDITIONS

The sheets must be stored in their original packaging in an odor-free, dry and well-ventilated area.The sheets should be used within 24 months after production date.
Do no put the sheets together with evaporating chemicals, oils, fuels, etc. Do not expose support sheets to direct sunlight.

WASTE DISPOSAL

Untainted sheets can be disposed with domestic waste or organic waste. Used sheets must be disposed in accordance with the type of contamination.





PP Melt Blown Filter Element

Homay PP Melt Blown Filter Cartridge consists of three layers of fine fibers in surface. It's your economic option. The surface can be smooth surface, orange surface, mini groove surface or deep groove surface to meet your different requirements.

APPLICATIONS

- Drinking water treatment
- Electronic
- RO security filtration
- Plating
- Chemicals & solvents
- Food and beverage

BENEFITS

- FDA CFR-21 compliance material
- Wide chemical compatibility
- Groove design to extend the filtration surface area
- All kinds of end caps are available.

MATERIALS OF CONSTRUCTION

Outside Diameter
63mm , 115mm or customized diameter

Inside Diameter
28mm , 30mm

Filter Media and End Caps
Polypropylene(PP)

Core
Polypropylene (PP)

CONFIGURATIONS

Removal Rating (μm)

1	3	5	10	20	25	50
75	100	150				

Length (")

9.75	9.87	10	20	30	40	50	60

Gaskets/O-ring

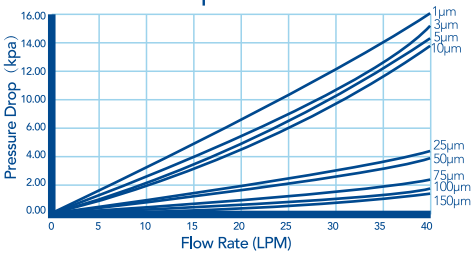
S = Silicone	E = EPDM	B = NBR
V = Viton		

SPECIFICATION

Max Operating Temperature
80°C

Maximum Operation Differential Pressure
2.0 Bar / 21°C

Pressure Drop vs.Flow Rate@20°C





Smooth | Orange | Mini Groove | Deep Groove

ORDERING CODE

Example : HMPP-5-10-2-C-S

	Outer Diameter	Removal Rating	Length	End Cap Type
HMPP	**Blank** = 2.5" (63mm) **BB** = 4.5" (115mm)	**1** = 1μm **3** = 3μm **5** = 5μm **10** = 10μm **20** = 20μm **25** = 25μm **50** = 50μm **75** = 75μm **100** = 100μm **150** = 150μm	**975** = 9.75"(248mm) **987** = 9.87"(250mm) **10** = 10"(254mm) **20** = 20"(508mm) **30** = 30"(762mm) **40** = 40"(1016mm) **50** = 50"(1270mm) **60** = 60"(1524mm)	**Blank** = DOE without Gasket **DOE** = DOE with Gasket **1** = 226/Flat **2** = 222/Flat **3** = 226/Fin **4** = 222/Fin

	Seal Material	Core	Surface
	S = Silicone **E** = EPDM **B** = NBR **V** = Viton	**Blank** = No Core **C** = PP Core	**S** = Smooth **O** = Orange **M** = Mini Groove **DP** = Deep Groove



Wrapped Melt Blown Filter Element

for ABSfil Replacement

WP filter cartridges are constructed of conjugated fiber. The conjugated fiber is thermally bonded because of the difference in melt temperature between two components. Accordingly, the stability and uniformity of filter pores are better than flat filters

APPLICATIONS

- Electronics: IC& LCD cleaning water, PCB, plating solutions etc
- Water treatment: washing water, prefiltration for pure water
- Chemical processing fluids: coatings/printing inks, resin, adhesives, solvents, surfactants etc
- Pharmaceuticals dialyzer, health dare, beverages, cosmetics etc
- Food& Beverage: beer, soft drinks, edible oil, brewery, soya sauce etc

MATERIALS OF CONSTRUCTION

Outside Diameter
63mm

Inside Diameter
30mm

Filter Media
Conjugated Fiber（PP+PE）

CONFIGURATIONS

Removal Rating (μm)

1	3	5	10	20	50

Length (")

10	20	30	40

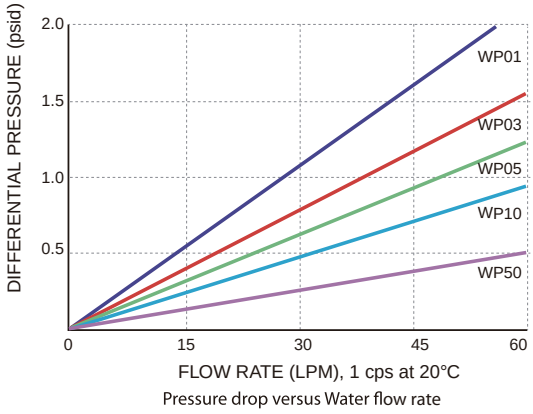
SPECIFICATION

Max Operating Temperature
80°C

Maximum Operation Differential Pressure
70psi（4.8bar）@ 25°C

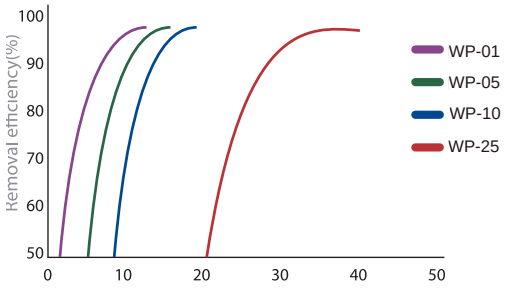
BENEFITS

- Long service life
- High flow rate
- Free of media migration
- Withstand high differential pressure
- Stable pore size
- Excellent chemical compatibility



Pressure drop versus Water flow rate

Particle Removal Efficiency



ORDERING CODE

Example : HMWP-5-10

	Removal Rating		Length
HMWP	**1** = 1μm **3** = 3μm **5** = 5μm **10** = 10μm **20** = 20μm **50** = 50μm	–	**10** = 10"(254mm) **20** = 20"(508mm) **30** = 30"(762mm) **40** = 40"(1016mm)



Blue PP Melt Blown Filter Element
with Antibacterial Function

This improved antibacterial melt blown filter element guarantees the safety of drinking water by preventing the growth of bacteria.

APPLICATIONS

- Food and beverage
- Bottled water process
- Household water dispenser,water purification system
- Commercial water purification system,drinking water system

BENEFITS

- Graded density structure for maximum dirt holding capability
- Additive silver ion antibacterial ingredient to ensure the drinking safety
- FDA CFR-21 compliance material

MATERIALS OF CONSTRUCTION

Outside Diameter
63mm,115mm or customized diameter

Inside Diameter
28mm, 30mm

Filter media
PP fiber with antibacterial ingredient

CONFIGURATIONS

Removal Rating (μm)

1	3	5	10	20	25	50	75	100

Length (")

9.75	9.87	10	20	30	40

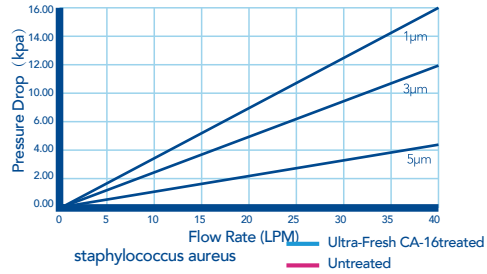
SPECIFICATION

Max Operating Temperature
80°C

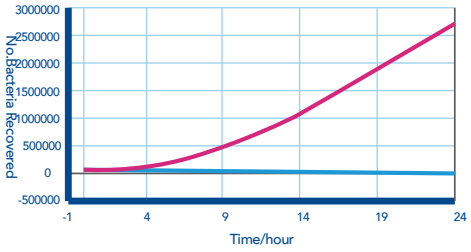
Maximum Operation Differential Pressure
2.5 Bar / 21°C

Efficiency
>90%

Pressure Drop vs.Flow Rate@20°C



staphylococcus aureus



ORDERING CODE

Example : HMCG-5-10

	Outer Diameter	Removal Rating	Length
HMCG	**Blank** = 2.5" (63mm) **BB** = 4.5" (115mm)	**1** = 1μm **3** = 3μm **5** = 5μm **10** = 10μm **20** = 20μm **25** = 25μm **50** = 50μm **75** = 75μm **100** = 100μm	**975** = 9.75"(248mm) **987** = 9.87"(250mm) **10** = 10"(254mm) **20** = 20"(508mm) **30** = 30"(762mm) **40** = 40"(1016mm)



Brown Phenolic Resin Fiber Filter Element

Phenolic resin fiber filter element is widely used in automobile finish, electric permanent paint, and printing ink. Coil coating, PU coating, concave-convex printing ink, enamel paint, newspaper ink, UV Curing ink, conductive ink, inkjet, flat ink, all kinds of latex, color paste Liquid dye, optical film, organic solvent, petrochemical industry, chemical industry, engine plant cutting Grinding and planning liquid, sewage washing liquid, film developer, magnetic stripe, magnetic ticket, and magnetic card Feature and Benefit developer are filtered.

FEATURE AND BENEFIT

Broad chemical compatibility

Rigid construction makes it ideal for high viscosity chemical liquid filtration and chemically aggressive applications, offering solvent resistance, corrosion resistance, and broad chemical compatibility.

Ideal for high flow and high temperature applications

No deformation in high-flow, high-temperature conditions, excelling with solvent-based liquids and high-viscosity fluids, regardless of temperature, pressure, or viscosity levels.

Graded porosity structure

Ensuring consistent filtration performance, these filters offer low pressure drop, long life, higher contaminant-holding capacity, excellent particle removal efficiency, and high dirt-holding capacity.

Rigid resin bonding structure

No deformation in high-flow, high-temperature conditions, excelling with solvent-based liquids and high-viscosity fluids, regardless of temperature, pressure, or viscosity levels.

Grooved surface structure

The grooved surface structure in resin-bonded cartridges increases filtration area, enhancing dirt loading capacity and prolonging on-stream life.

MATERIALS OF CONSTRUCTION

Outside Diameter

65mm

Inside Diameter

28mm

CONFIGURATIONS

Removal Rating (μm)

1	3	5	10	25	50	75
100	150	200	400			

Length (")

9.75 (248mm)	9.87 (250mm)
10 (254mm)	20 (508mm)
30 (762mm)	40 (1016mm)
50 (1270mm)	

SPECIFICATION

Maximum Operating Temperature

145°C

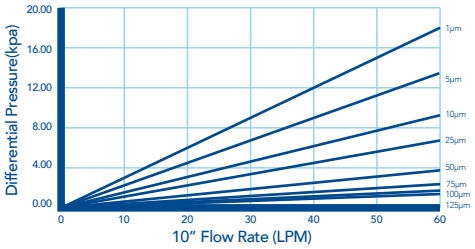
Maximum Pressure Difference

4.5 Bar

Working Pressure

5.0 Bar - 8.0 Bar

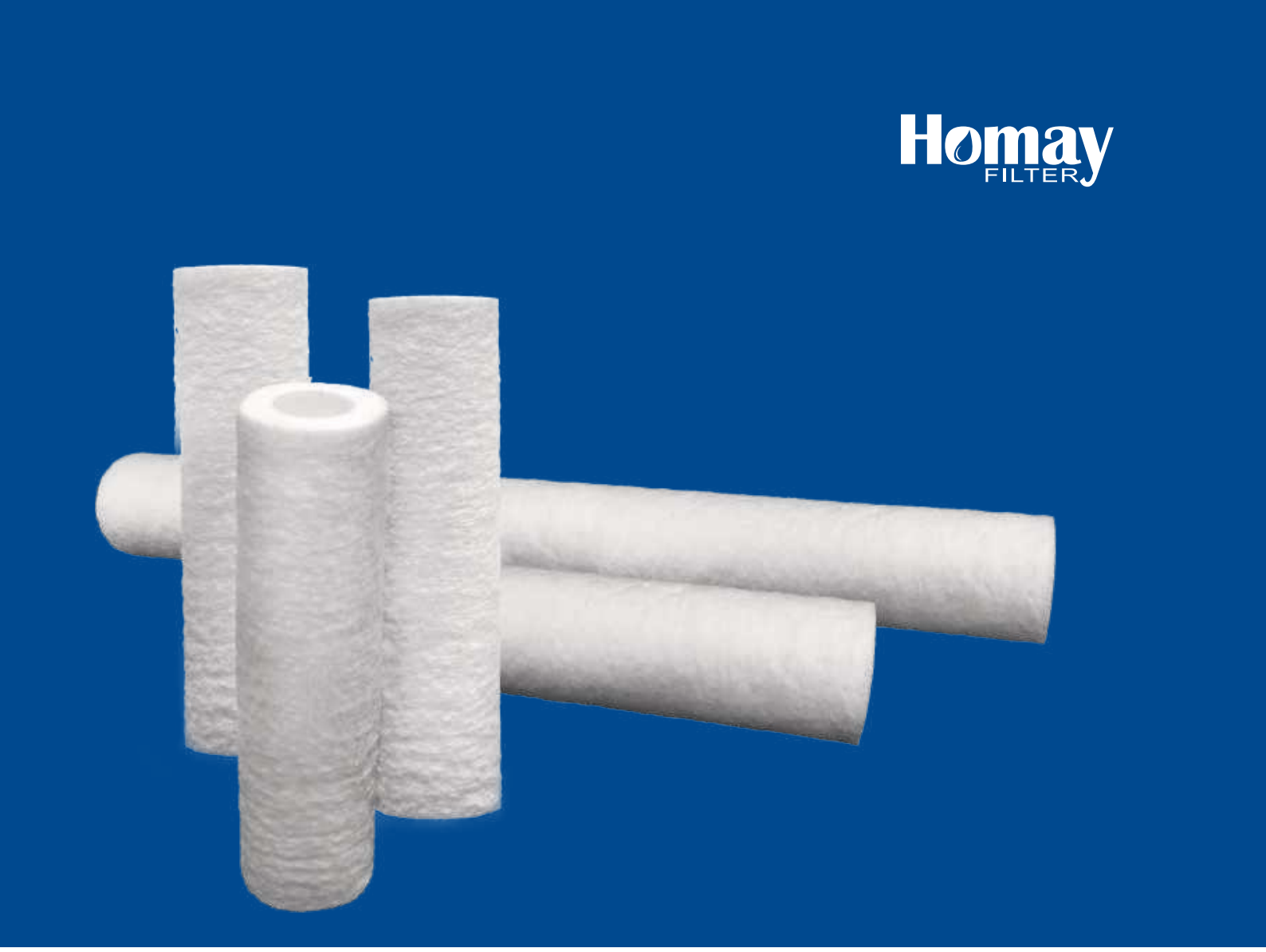
Flow Rate@20°C



ORDERING CODE

Example : HMPRF-10-5-G

	Outer Diameter	Length	Removal Rating	Surface Type
HMPRF	**Blank** = 2.5" (65mm) **W** = 62mm (Wrapped only)	**9.75** = 9.75" (248mm) **9.87** = 9.87" (250mm) **10** = 10" (254mm) **20** = 20" (508mm) **30** = 30" (762mm) **40** = 40" (1016mm) **50** = 50" (1270mm)	**1** = 1μm **3** = 3μm **5** = 5μm **10** = 10μm **25** = 25μm **50** = 50μm **75** = 75μm **100** = 100μm **150** = 150μm **200** = 200μm **400** = 400μm	**G** = Groove **W** = Wrapped **S** = Smooth



Nylon Melt Blown Filter Element

Nylon Melt Blown Depth Filter Element is suitable for high temperature application.The strength of the filter can be improved by adding cores.

BENEFITS

- High temperature resistance up to 120℃
- Especially to solvents,hydrocarbons and aromatics
- FDA CFR-21 compliance material

APPLICATIONS

- Food and beverage
- Petrochemical
- Cosmetic
- Pharmaceutical
- Resin coating
- Fine chemical

MATERIALS OF CONSTRUCTION

Outside Diameter
63mm

Inside Diameter
28mm

Filter Media
Nylon

Core
Polypropylene (PP) , Glass Fiber , Nylon

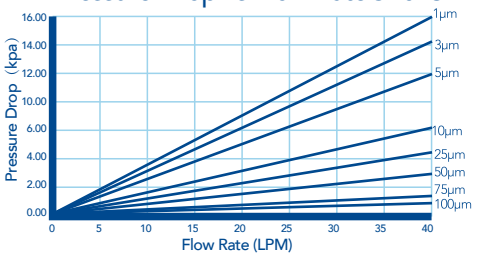
SPECIFICATION

Max Operating Temperature
120°C

Maximum Operation Differential Pressure
1-25μm,2.5Bar at 21°C
50-100μm,1Bar at 21°C without core

Efficiency
>90%

Pressure Drop vs.Flow Rate@20°C



CONFIGURATIONS

Removal Rating (μm)

1	3	5	10	20	25
75	100				

Length (")

9.75	9.87	10	20	30	40

Gaskets/O-ring

S = Silicone	E = EPDM	B = NBR
V = Viton		

ORDERING CODE

Example : HMNY-5-10-2-E-P

	Removal Rating	Length	End Cap Type	Seal Material	Core
HMNY -	**1** = 1μm **3** = 3μm **5** = 5μm **10** = 10μm **20** = 20μm **25** = 25μm **50** = 50μm **75** = 75μm **100** = 100μm	**975** = 9.75"(248mm) **987** = 9.87"(250mm) **10** = 10"(254mm) **20** = 20"(508mm) **30** = 30"(762mm) **40** = 40"(1016mm)	**Blank** = DOE without Gasket **DOE** = DOE with Gasket **1** = 226/Flat **2** = 222/Flat **3** = 226/Fin **4** = 222/Fin	**S** = Silicone **E** = EPDM **B** = NBR **V** = Viton	**Blank** = No Core **P** = Glass Fiber Filled PP Core **N** = Nylon Core



String Wound Filter Element

String wound filter element consists of loose outer layers and tight inner layers which offer true depth filtration for high dirt holding capacity .This filter element can withstand higher PSID and severe operating conditions due to high structural strength.

BENEFITS

- Fits all the standard housings
- Low pressure drop,high dirt holding capacity and long service life
- Loose outer layers and tight inner layers offer effective depth filtration
- Various filter media fit with various applications

APPLICATIONS

- Drinking water treatment
- Food & beverage
- Semiconductor
- Pharmaceuticals
- RO security filtration

MATERIALS OF CONSTRUCTION

Outside Diameter
63mm,115mm

Inside Diameter
28mm,30mm

Filter Media
Polyethylene, Bleached Cotton, Glass Fiber

Core
PP, Stainless Steel

CONFIGURATIONS

Removal Rating (μm)

1	3	5	10	20	25
50	75	100			

Length (")

9.75	9.87	10	20	30	40	50

Gaskets/O-ring

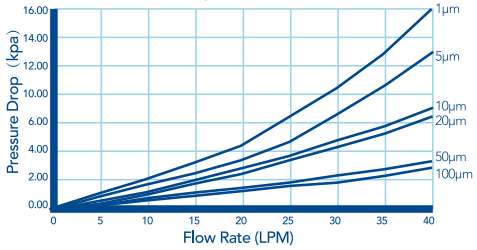
S = Silicone	E = EPDM	B = NBR
V = Viton		

SPECIFICATION

Max Operating Temperature
PP : 80°C
Bleached Cotton : 120°C
Glass Fiber: 200°C

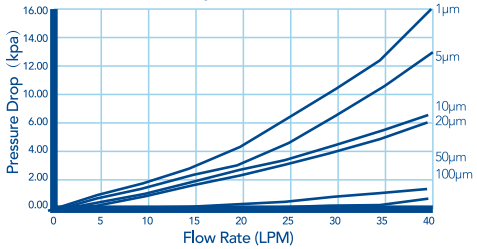
Maximum Operation Differential Pressure
2.5 Bar @ 25°C

Pressure Drop vs.Flow Rate@20°C



PP String Wound Filter

Pressure Drop vs.Flow Rate@20°C



Cotton String Wound Filter

ORDERING CODE

Example : HMSW-5-10-PP-1-S

	Outer Diameter	Removal Rating	Length	Material
HMSW	**Blank** = 2.5" (63mm) **BB** = 4.5" (115mm)	**1** = 1μm **3** = 3μm **5** = 5μm **10** = 10μm **20** = 20μm **25** = 25μm **50** = 50μm **75** = 75μm **100** = 100μm	**975** = 9.75"(248mm) **987** = 9.87"(250mm) **10** = 10"(254mm) **20** = 20"(508mm) **30** = 30"(762mm) **40** = 40"(1016mm) **50** = 50"(1270mm)	**PP** = PP Yarn and PP Core **CS** = Cotton Yarn and SS Core **CP** = Cotton Yarn and PP Core **GS** = Glass Fiber and SS Core

End Cap Type	Seal Material
Blank = DOE without Gasket **DOE** = DOE with Gasket **1** = 226/Flat **2** = 222/Flat **3** = 226/Fin **4** = 222/Fin **5** = Self Seal Spring	**S** = Silicone **E** = EPDM **B** = NBR **V** = Viton



Pleated Filter Element

Standard pleated filter cartridges are made of pleated polyester filter media, which is characterized by low pressure drop, increased surface area and long service life.

BENEFITS

- Pleated design increased surface area and contaminant removal
- Longer filtration runs for fewer change-out and less maintenance
- Low pressure drop
- Designed for general water filtration purposes applications

APPLICATIONS

- General water and R.O treatment
- Food and beverage
- Acid-base liquid in chemical processing
- Industrial chemicals and organic solvents

MATERIALS OF CONSTRUCTION

Outside Diameter
68mm,115mm

Inside Diameter
28mm

Filter Media
Polyester, PP

Core
PP

End Caps
PU/Plastisol

CONFIGURATIONS

Removal Rating (μm)

1	5	10	20	50

Length (")

9.75	9.87	10	20	30	40	50

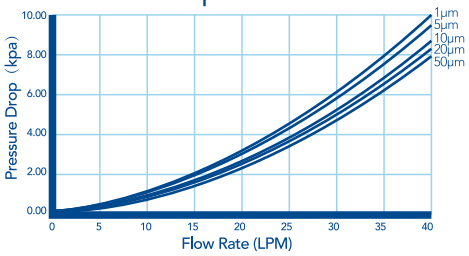
SPECIFICATION

Max Operating Temperature
37.8°C

Maximum Operation Differential Pressure
4.0 Bar

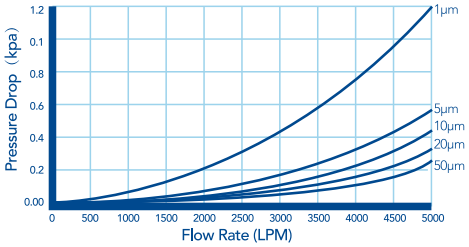
Flow rate per 10" cartridge
3-10 GPM,depend on removal rating

Pressure Drop vs.Flow Rate@20°C



Outside Diameter 63mm

Pressure Drop vs.Flow Rate@20°C



Outside Diameter 115mm

ORDERING CODE

Example : HMS-5-10-PET

	Outer Diameter	Removal Rating	Length	Media
HM	**S** = 68mm **BB** = 115mm	**1** = 1μm **5** = 5μm **10** = 10μm **20** = 20μm **50** = 50μm	**975** = 9.75"(248mm) **987** = 9.87"(250mm) **10** = 10"(254mm) **20** = 20"(508mm) **30** = 30"(762mm) **40** = 40"(1016mm) **50** = 50"(1270mm)	**PET** = Polyester **PP** = PP



Chlorine Reduction

Activated Carbon Filter Element

Chlorine Reduction Carbon Filter Element is extruded by carbon fines or carbon or carbon powder with food-grade additives, also with NSF approved gaskets to ensure the whole process of using is safe and effective. Besides holding up particle impurities, getting rid of smells, this cartridge can also safety and efficiency of the filtration process. reduce chlorine and chloramine, heavy metal in water effectively. This will improve the safety of drinking water and industrial.

BENEFITS

- Good adsorption capacity
- Remove efficiently the chlorine, small particals, organics
- Low pressure drop,steady flow
- No carbon fine releasing

APPLICATIONS

- Drinking water treatment
- Food and beverage
- Chemical and plating

MATERIALS OF CONSTRUCTION

Outside Diameter
65mm,70mm,115mm

Filter Media
Acid Washed Coal Based GAC
Coconut Carbon

Netting
Polyethylene

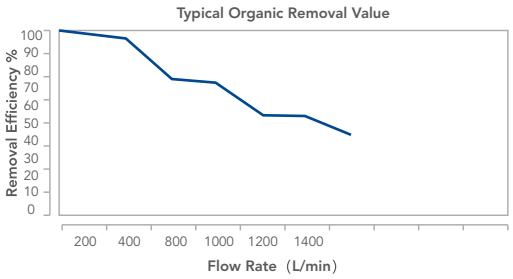
End Caps
Polyethylene

SPECIFICATION

Max Operating Temperature
52°C

Maximum Differential Pressure
7 Bar @ 20℃

Maximum Operating Pressure
10Bar



CONFIGURATIONS

Removal Rating (μm)

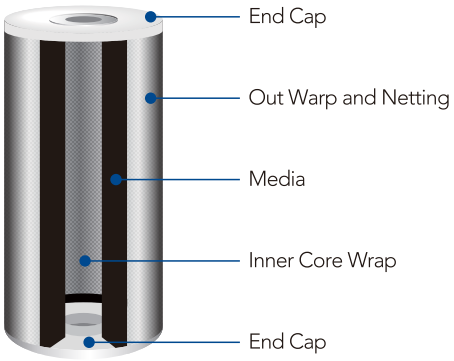
0.5	1	5	10

Length (")

9.75	9.87	10	20	30	40

Seal Material

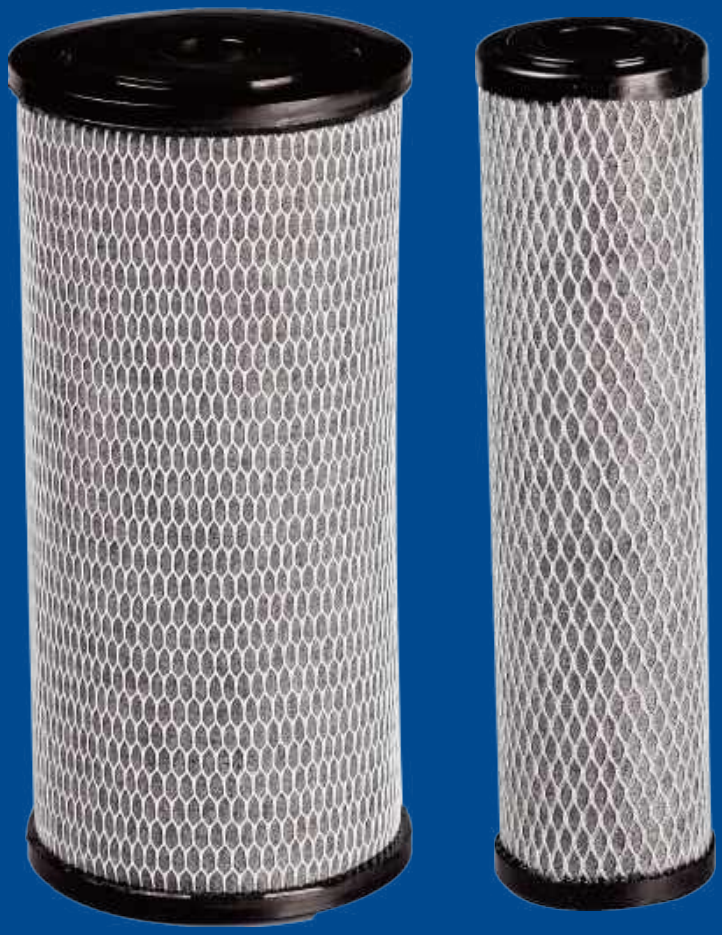
S = Silicone	E = EPDM	B = NBR



ORDERING CODE

Example : HMC-A-5-987-A

	End Cap Diameter	Removal Rating	Length	Media Type
HMC	**A** = ID:28mm,OD:70mm **B** = ID:30mm,OD:65mm **C** = ID:28mm,OD:115mm	**0.5** = 0.5μm **1** = 1μm **5** = 5μm **10** = 10μm	**975** = 9.75"(248mm) **987** = 9.87"(250mm) **10** = 10"(254mm) **20** = 20"(508mm) **30** = 30"(762mm) **40** = 40"(1016mm)	**A** = Acid Washed Coal Based GAC **B** = Coconut Carbon



Carbon Cellulose Filter Element

The carbon cellulose filter elements combine depth filtration and the adsorption of activated carbon fine. The outside deep fiber media can remove particles, and the activated carbon in filter cloth can adsorb the odor, sediment, pigment, VOC, and organic chemicals. The inside fiber filter can prevent carbon particles and fine pollutants from passing through, insuring the efficient quality and integrated filtration.

APPLICATIONS

- Drinking water treatment
- Food and beverage
- Chemical and plating
- Chemical

BENEFITS

- Good adsorption capacity
- Remove efficiently the chlorine,peculiar small,organics
- Low pressure drop,steady flow
- No carbon fine releasing

MATERIALS OF CONSTRUCTION

Outside Diameter
58mm,115mm

Inside Diameter
28mm

Filter Media
Carbon Impregnated Cellulose

Netting
Polyethylene

End caps and Center Core
Polyethylene

CONFIGURATIONS

Removal Rating (μm)

10

Length (")

9.75 | 9.87 | 10 | 20

SPECIFICATION

Max Operating Temperature
60°C

Maximum Differential Pressure
7 Bar @ 20 C

Maximum Operating Pressure
10Bar

ORDERING CODE

Example : HMCC-BB-10-10

	Outside Diameter	Removal Rating	Length
HMCC	**Blank** = 2.28''(58mm) **BB** = 4.5''(115mm)	**10** = 10μm	**975** = 9.75"(248mm) **987** = 9.87"(250mm) **10** = 10"(254mm) **20** = 20"(508mm))



Titanium Powder Sintered Filter Cartridge

Titanium Filter Cartridge is design for applications involving extreme operation conditions and aggressive fluids and gases.The rugged,fixed pore structure is constructed from sintered titanium powder. This filter element can withstand heat, high pressure and repeated cleaning and backwash cycles.Mechanical strength and corrosion resistance are the advantages of a seamless design.

APPLICATIONS

- Steam filtration;
- Prefiltration and decarbonization of high viscosity liquid filtration;
- Removing impurityes of liquids in petrochemical industry;
- Aggressive solvents filtration;
- Highly corrosive liquid and gas purification;
- Liquids or gases filtration at high temperature and pressure;

BENEFITS

- Extremely robust construction, high mechanical strength;
- Ideal for aggressive solvents,viscous and hot solutions;
- Backwashable and cleaned by chemical solvent, hot water,steam, long service life;
- Removal rating from 1.0 to 100 microns;

MATERIALS OF CONSTRUCTION

Outside Diameter
60mm/80mm

Inside Diameter
28mm/30mm

Filter Media
Titanium Powder Sintered

Inner Core
Stainless steel

Cage,End Cap
Stainless steel

Seal Method
TIG welding

CONFIGURATIONS

Removal Rating (μm)

1	3	5	10	20	50	100

Length (Base on DOE)

10	20	30	40

O-rings/Gaskets

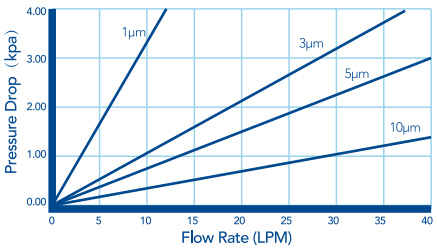
S = Silicone	E = EPDM	B = Buna
V = Viton	F = E-FKM	

SPECIFICATION

Max Operating Temperature
Up to 300°C (572 F)

Porosity
35% - 45%

water flow rate @ 25 °C (77°F)



ORDERING CODE

Example : HMTP-3-10-2T-B

	Micron	Length	End Cap	Seal Material
HMTP	**1** = 1μm **3** = 3μm **5** = 5μm **10** = 10μm **20** = 20μm **50** = 50μm **100** = 100μm	**10** = 10″ **20** = 20″ **30** = 30″ **40** = 40″	**D** = DOE **3F** = 213/Flat **2T** = 222/Flat **2N** = 222/fin **6T** = 226/Flat **6N** = 226/Fin	**S** = Silicone **B** = Buna **E** = EPDM **V** = Viton **F** = E-FKM



Stainless Steel Filter Cartridge

Stainless Steel Filter Cartridge is design for applications involving extreme operation conditions and aggressive fluids and gases.The rugged,fixed pore structure is constructed from stainless steel.This filter element can withstand heat,high pressure and repeated cleaning and backwash cycles.Mechanical strength and corrosion resistance are the advantages of a seamless design.

APPLICATIONS

- Steam filtration
- Prefiltration and decarbonization of high viscosity liquid filtration
- Removing impurityes of liquids in petrochemical industry
- Aggressive solvents filtration
- Highly corrosive liquid and gas purification
- Liquids or gases filtration in high temperature and pressure

BENEFITS

- Extremely robust construction, high mechanical strength
- Ideal for aggressive solvents,viscous and hot solutions
- Backwashable and cleaned by chemical solvent, hot water,steam, long service life
- Removal rating from 1.0 to 100 microns

MATERIALS OF CONSTRUCTION

Outside Diameter
60mm/80mm

Filter Media
SUS304,SUS306,SUS306L,SUS316

Inner Core
Stainless steel

Cage,End Cap
Stainless steel

Seal Method
TIG welding

CONFIGURATIONS

Removal Rating (μm)

1	3	5	10	20	50	100

Length (Base on DOE)

10	20	30	40

O-rings/Gaskets

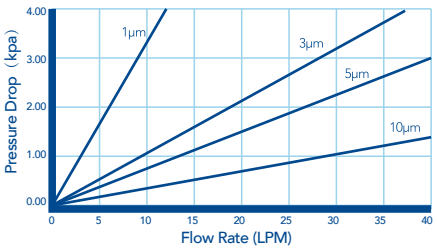
S = Silicone	E = EPDM	B = NBR
V = Viton	F = E-FKM	

SPECIFICATION

Max Operating Temperature
Up to 300°C (572 F)

Porosity
35% - 45%

water flow rate @ 25 °C (77°F)



ORDERING CODE

Example : HMSS-04-3-20-D-B

	Media	Micron	Length	End Cap	O-Ring/Gasket
HMSS	**04** = SUS304 **06** = SUS306 **06L** = SUS306L **16** = SUS316	**1** = 1μm **3** = 3μm **5** = 5μm **10** = 10μm **20** = 20μm **50** = 50μm **100** = 100μm	**10** = 10″ **20** = 20″ **30** = 30″ **40** = 40″	**D** = DOE **3F** = 213/Flat **2T** = 222/Flat **2N** = 222/fin **6T** = 226/Flat **6N** = 226/Fin **M1** = 3/4″ Male NPT threads **M2** = ″ Male NPTthreads	**S** = Silicone **B** = Buna-N **E** = EPDM **V** = Viton **F** = E-FKM



ROKI Replacement capsule filter 29

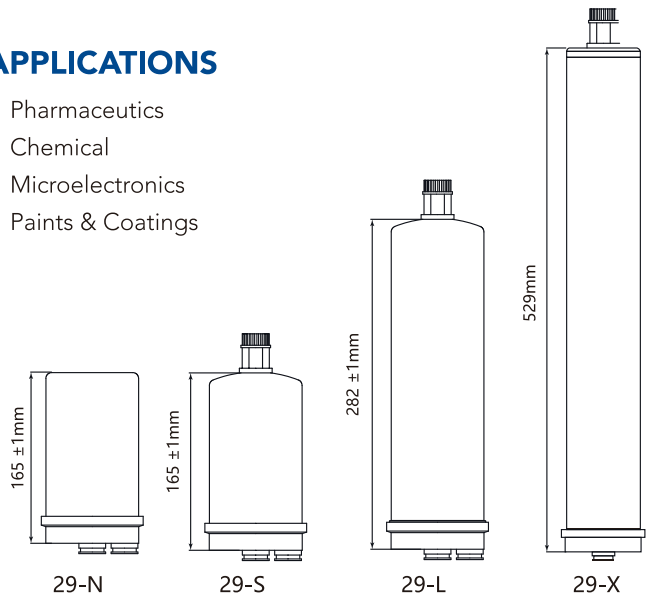
Capsule filter 29 is equivalent with ROKI capsule filter,.No need to clean the filter housing after replacing, which greatly reduces the cost of cleaning and waste water treatment, also avoids contacting with feed liquid directly, particularly suitable for toxic and harmful liquid filtration.

BENEFITS

- Safe and friendly design
- Low material wastage compact structure design
- Easy installation and operation

APPLICATIONS

- Pharmaceutics
- Chemical
- Microelectronics
- Paints & Coatings



MATERIALS OF CONSTRUCTION

Media
PP

Cage/Connection
PP

SPECIFICATION

Max Operating Temperature
60°C

Max Operating DP
4 Bar @ 21°C

ORDERING CODE

Example : 29S-50-E

	Removal Rating	Seal Material
29N **29S** **29L** **29X**	50 = 50μm 75 = 75μm 100 = 100μm 150 = 150μm	E = EPDM V = Viton F = E-FKM



Capsule Filter

This disposable filter is suitable for small flowrate.The housing is thermal welded. Different connection are available.The capsule filters are manufactured in the clean room to ensure the clearness.

APPLICATIONS

- Pharmaceutics
- Food and beverage
- Chemical
- Microelectronics
- Cosmetics
- Ink

BENEFITS

- Many kinds of filter media and removal rating.
- Made in the clean environment.
- Absolutely bio-safety and non-toxic.

MATERIALS OF CONSTRUCTION

Filter Media
PP, PES, PTFE, Nylon66, Glass Fiber

Housing
PP

Support
PP

Sealing
Thermally Welded

CONFIGURATIONS

Removal Rating (μm)

PP	0.1	0.22	0.45	1	3	5	10	20	30	50
PES	0.1	0.22	0.45	0.65	0.8	1.2				
PTFE (Liquid)	0.1	0.22	0.45							
PTFE (Gas)	0.01	0.02								
Nylon66	0.1	0.22	0.45	0.65	1					
Glass Fiber	0.45	1	3	5	10	20				

ORDERING CODE

Example : MH801-PP-5

CODE

MH801	MH807	MH813	MH819	MH825	MH831	MH837	MH843	MH849
MH802	MH808	MH814	MH820	MH826	MH832	MH838	MH844	MH850
MH803	MH809	MH815	MH821	MH827	MH833	MH839	MH845	MH851
MH804	MH810	MH816	MH822	MH828	MH834	MH840	MH846	MH852
MH805	MH811	MH817	MH823	MH829	MH835	MH841	MH847	MH853
MH806	MH812	MH818	MH824	MH830	MH836	MH842	MH848	MH854

Media

PP = Polypropylene
PES = Polyethersulfone
PTFE = Polytetrauoroethylene
N66 = Nylon 66
GF = Glass Fiber

Micron Rating

PP	PES	PTFE(Liquid)	PTFE(Gas)	Nylon66	Glass Fiber
0.1 =0.1μm	**0.1** = 0.1μm	**0.1** = 0.1μm	**0.01** = 0.01μm	**0.1** = 0.1μm	**0.45** = 0.45μm
0.22 = 0.22μm	**0.22** = 0.22μm	**0.22** = 0.22μm	**0.02** = 0.02μm	**0.22** = 0.22μm	**1** = 1μm
0.45 = 0.45μm	**0.45** = 0.45μm	**0.45** = 0.45μm		**0.45** = 0.45μm	**3** = 3μm
1 = 1μm	**0.65** = 0.65μm			**0.65** = 0.65μm	**5** = 5μm
3 = 3μm	**0.8** = 0.8μm			**1** = 1μm	**10** = 10μm
5 = 5μm	**1.2** = 1.2μm				**20** = 20μm
10 = 10μm					
20 = 20μm					
30 = 30μm					
50 = 50μm					



Homay Syringe Filter

Homay Syringe Filters are high-quality filters that are well packaged and offered at a competitive price. The classic range is available with membranes including Nylon, PTFE, PES, CA, PP, and MCE, which are supplied in 13mm and 25mm formats in virgin medical polypropylene housings.

BENEFITS

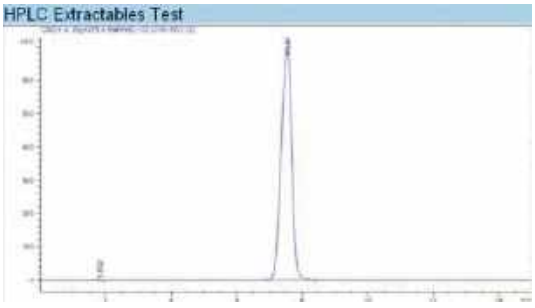
- Application compatibility: broad range of filtration media meets diverse applications needs
- Minimum sample hold-up: syringe Filters housings are specifically designed to maximize sample recovery
- Convenient: each unit is clearly marked with an identifying code to denote pore size, membrane material
- Sterile: filters can be purchased pre-sterilized by Gamma radiation and individually packaged

APPLICATIONS

- HPLC sample preparation
- Routine QC analysis
- Content uniformity
- Removal of protein precipitates
- Dissolution testing
- Food analysis
- Biofuel analysis
- Environmental samples

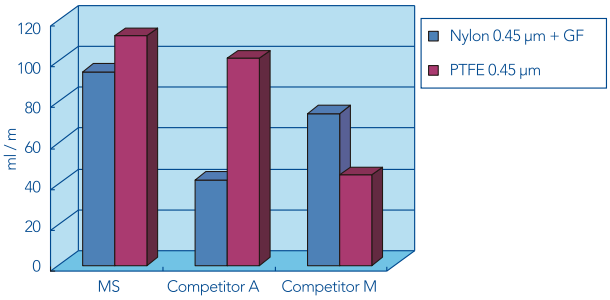
- HPLC certification which guarantees the filters will not produce extraneous peaks in the UV range.
- 100% integrity tested with higher burst strength ratings assuring they will perform consistently.
- Available in 13 and 25mm sizes and available in steriled too.
- 0.45μm for most clarification applications and 0.22 μm when fine particulate removal is required. Other pore size are available in 0.8μm - 5μm.

VALIDATED HPLC PERFORMANCE



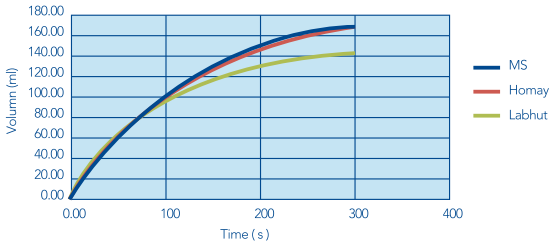
Agilent Technologies 1200,
Column:C18 UV-254 nm
Mob. phase:MeOH2O:20:80,
Temperature:25°C,
Flow rate:0.8ml/min,
sample:2mg/ml Bergenin(in Methanol)

HM 25mm Syringe Filter VS Competition



Water Flow @ 1 Bar

Nylon 0.45 + GF



ORDERING INFORMATION

A:How to order?

SF	NY	025	022	N	G
	Filter Media	Diameter	Pore Size		
Syringe Filter	Nylon PTFE PES CA PP MCE	**013** = 13 mm **025** = 25mm	**022** = 0.2 µm **045** = 0.45 µm	**N** = non sterile **S** = sterile	**G** = GF prefilter **P** = PP prefilter

PARAMETERS	13mm	25mm
Housing material	Virgin Medical	Polypropylene
Effective Filtration area（cm^2)	1.0	4.08
Pore Size（ um）	0.22,0.45.....	
Holdup volume（µ）	<25	<100
Sample volume（ml）	<10	<100
Inlet connection	Female luer lock	
Outlet connection	Male luer slip	
Maximum Operating Temperature	50°C	50°C
Maximum Operating Pressure（bar）	6	6



222 Flat Filter Virgin PP Housing

222 Flat filter Virgin PP Housing is made of pure polypropylene. The housing is designed to fit 10" and 20" 222 single open end cartridge

BENEFITS

- Made of pure virgin PP, low precipitation.
- Accepts 10" and 20" 222 O-rings style cartridge, flat closed end.
- Wide chemical compatibility.
- Transparent housing bowl enables visual inspection of the cartridge.

APPLICATIONS

- Pharmaceutics
- Food and beverage
- Chemical
- Microelectronics
- Cosmetics
- Ink water treatment

MATERIALS OF CONSTRUCTION

Head
Pure Virgin PP

Bowl
Pure Virgin PP

Mounting Bracket
Stainless Steel

Inlet/Outlet
3/4" NPT

Vent
1/4" NPT

Drain
1/4"NPT

SPECIFICATION

Max Operating Temperature
60°C

Max. Operating DP
6 Bar @ 21°C

ORDERING CODE

Example : 222-10-E

	Length	Seal Material
222 -	10 = 10" 20 = 20"	- E = EPDM V = Viton



226 Flat filter Virgin PP Housing

226 Flat filter Virgin PP Housing is made of pure polypropylene. The housing is designed to fit 10" and 20" 226 single open end cartridge

BENEFITS

- Made of pure virgin PP,low precipitation.
- Accepts 10" and 20" 226 O-rings style cartridge, flat closed end.
- Wide chemical compatibility.
- Transparent housing bowl enables visual inspection of the cartridge.

APPLICATIONS

- Pharmaceutics
- Food and beverage
- Chemical
- Microelectronics
- Cosmetics
- Ink water treatment

MATERIALS OF CONSTRUCTION

ID
1.10"(28mm)

Sealing
EPDM,Viton

Vent
1/4" NPT

Drain
1/4"NPT

Inlet/Outlet
DN40, JIS40A

Length
9.75" (248mm)
9.87" (250mm)
10" (254mm)
20" (508mm)

Head
Pure Virgin PP

Bowl
Pure Virgin PP

SPECIFICATION

Max Operating Temperature
60°C

Max. Operating DP
6 Bar @ 21°C

ORDERING CODE

Example : 226-10-E

	Length	Seal Material
226 -	10 = 10" 20 = 20" -	E = EPDM V = Viton