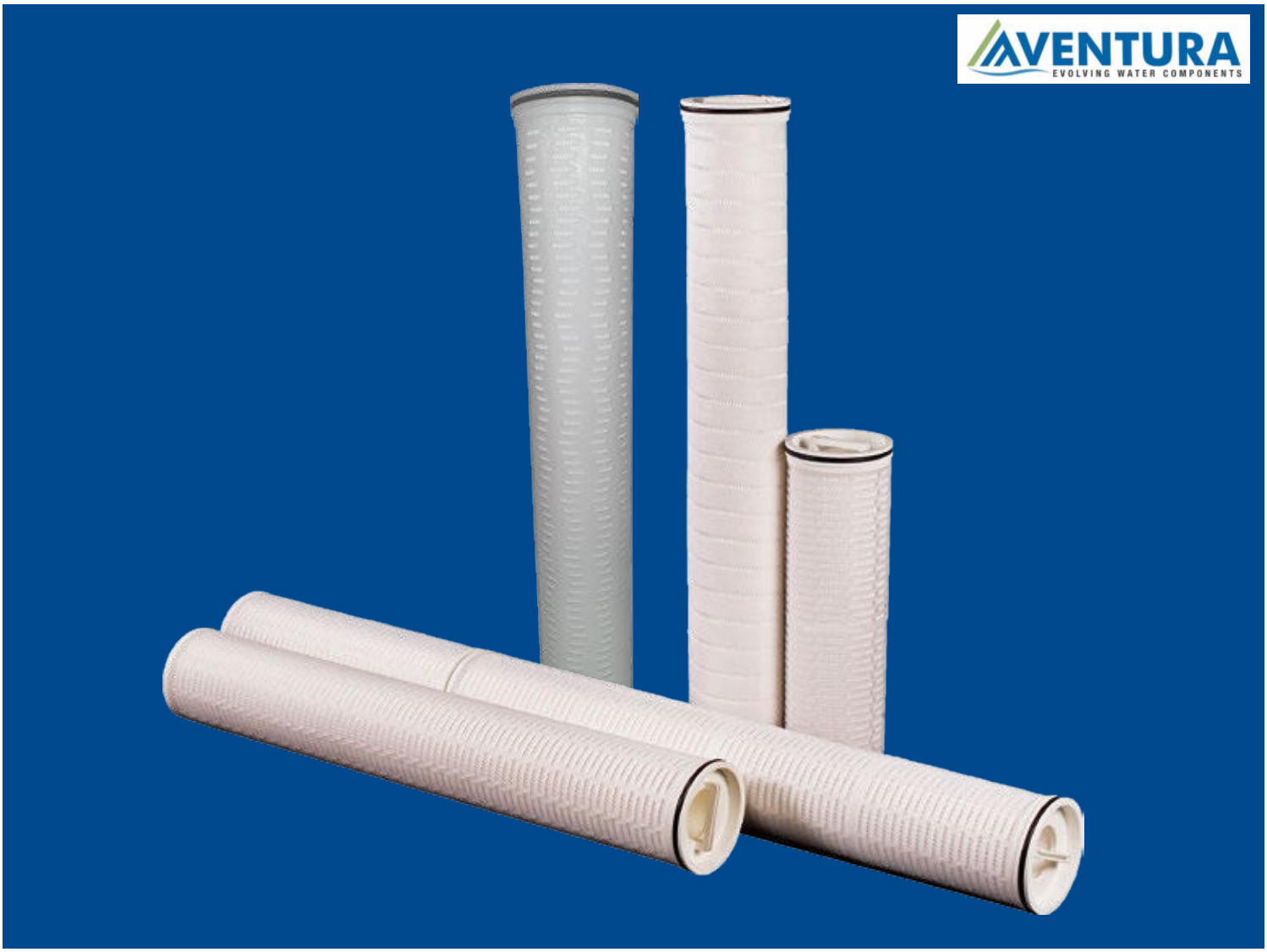


Pleated High Flow Filter Cartridge

for Pall Ultipleat Replacement

This is one kind of universal high flow filter cartridge. The large diameter with larger filtration area insures to reduce 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 8m^3, higher flow capability.
- Higher dirt holding capability, longer service life.
- We can meet different application requirement 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 (1538mm)	

Seal Material

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

SPECIFICATION

Maximum Operating Temperature
Pleated Glass Fiber:121°C
Pleated PP: 80°C
Melt Blown PP: 65°C

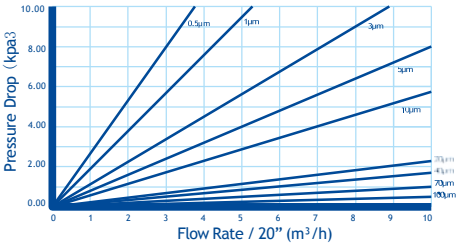
Maximum Operation Differential Pressure
3.0 Bar @ 21°C

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

	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 : AVPHF-PN-5-40-C-S

	Media	Removal Rating	Length	Outside Type	Seal Material
AVPHF	**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 **25** = 25µm **50** = 50µm **70** = 70µm **100** = 100µm	**20** = 20" **40** = 40" **60** = 60"	**B** = Belt **C** = Cage **6** = SS316L **4** = SS304	**S** = Silicone **B** = Buna **E** = EPDM **V** = Viton **F** = E-FKM

Pleated High Flow Filter Cartridge

with Stainless Steel Cage

This is one kind of universal high flow filter cartridge. The large diameter with larger filtration area insures to reduce 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, especially used in high temperature and high Pressure applications.

BENEFITS

- Higher filtration area even up to 8m^3,higher flow capability.
- Higher dirt holding capability, longer service life.
- Meet different application requirement 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

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 (1538mm)	

Seal Material

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

SPECIFICATION

Maximum Operating Temperature
Pleated Glass Fiber:121°C
Pleated PP: 80°C
Melt Blown PP: 65°C

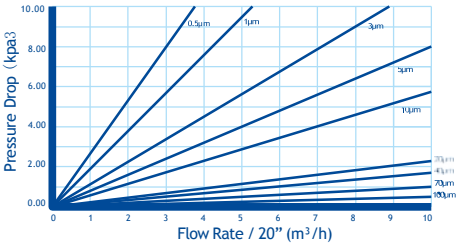
Maximum Operation Differential Pressure
3.0 Bar @ 21°C

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

	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 : AVPHF-PN-5-40-C-S

	Media	Removal Rating	Length	Outside Type	Seal Material
AVPHF	**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 **25** = 25µm **50** = 50µm **70** = 70µm **100** = 100µm	**20** = 20" **40** = 40" **60** = 60"	**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 change-out 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 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, Glass Fiber;

Support/Drainage
Polypropylene (PP)

End Cap Material
Glass Fiber reinforced PP

CONFIGURATIONS

Removal Rating (µm)

0.5	1	3	5	10	20	50
70	100					

Length (")

40	60

Seal Material

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

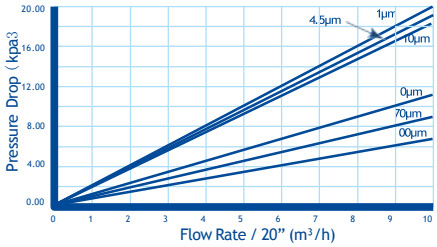
SPECIFICATION

Maximum Operating Temperature
80°C

Maximum Operation Differential Pressure
3.0 Bar , 80°C

Recommended Change out Differential Pressure
2.4 Bar @ 20°C

Flow Characteristics



ORDERING CODE

Example : AV3M-PN-5-40-S-A

	Media	Removal Rating	Length	Seal Material	End Cap Type
AV3M	**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 longer service life an 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 handing 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

NBR CONFIGURATIONS

Removal Rating (µm)

0.5	1	3	5	10	20	50
70	100					

Length (")

40	60

Seal Material

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

SPECIFICATION

Maximum Operating Temperature
80°C

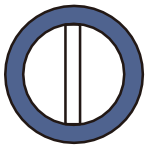
Maximum Operation Differential Pressure
3.0 Bar , 80°C

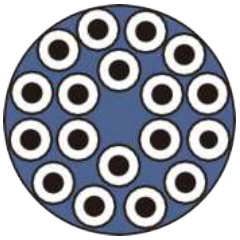
Recommended Change out Differential Pressure
2.4 Bar @ 20°C

FILTER 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.

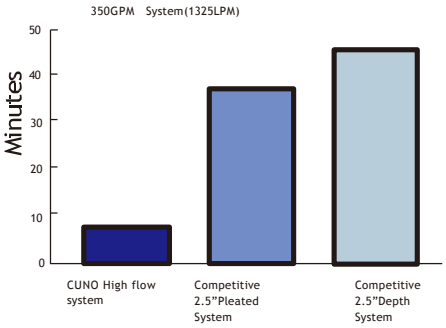
* Comparison assumes fluid viscosity of 1 cp



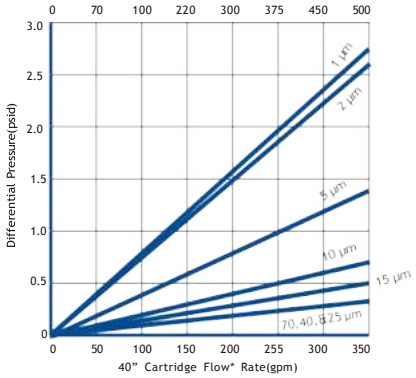


1 HF cartridge filter In a 8.6'' diameter housing
18 standard diameter 2.5'' pleated filter in a 16'' housing

Typical time/labor for change out



Typical Cartridge Flow Rates



ORDERING CODE

Example : AV3MC-5-40-S-A

	Removal Rating	Length	Seal Material	End Cap Type
AV3MC	**0.5** = 0.5µm **1** = 1µm **3** = 3µm **5** = 5µm **10** = 10µm **25** = 25µm **50** = 50µm **70** = 70µm **100** = 100µm	**20** = 20" **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 economical design for one kind of universal high flow filter housings.

BENEFITS

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

APPLICATIONS

- Pre-filtration 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

NBR CONFIGURATIONS

Removal Rating (µm)

1	3	5	10	20	40	50
70	100					

Length (")

40

Seal Material
Silicone, EPDM , Buna-N , Viton

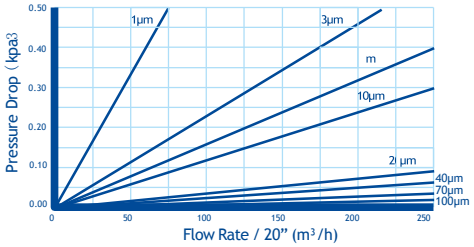
SPECIFICATION

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 : AVK-PN-5-S-B

	Media	Removal Rating	Seal Material	End Cap Type
AVK	**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 Pentair Aqualine high flow filter cartridge.
The large diameter with larger filtration area reduces the number of filter cartridges and the dimension of housing required.

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)

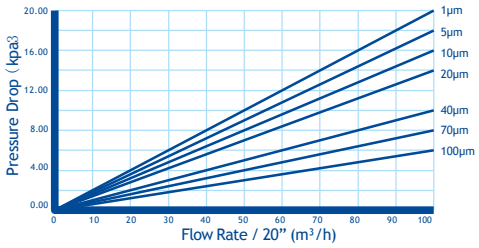
Filter Media
Polypropylene (PP)

SPECIFICATION

Maximum Operating Temperature
Pleated PP: 82°C

Maximum Operation Differential Pressure
35 Psid

Flow Characteristics



CONFIGURATIONS

Removal Rating (μm)

0.5	1	3	5	10	20	40	50
70	100						

Length (")

40 (1016mm)	60 (1589mm)

Seal Material
EPDM , Buna-N

BENEFITS

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

ORDERING CODE

Example : AVAHF-PN-5-40-B

	Media	Removal Rating	Length	Seal Material
AVAHF -	**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" -	**B** = Buna **E** = EPDM

PP Pleated Filter Cartridges

for Pall Marksman Replacement

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

APPLICATIONS

- Oil and gas
- Food and beverage
- Pharmaceutical
- Micro electronics
- Pre-filtration of RO, Pretreatment of sea water 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)

SPECIFICATION

Maximum Operating Temperature
60°C

Maximum Operation Differential Pressure
3.4 Bar , 60 °C

Recommended Change out Differential Pressure
2.4 Bar , 20°C

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-N

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 the unwanted particles are trapped with the element.

ORDERING CODE

Example : AVBP-2-B-5-E

	Length(inch/mm)	Flange Types	Removal Rating	O-Ring Material
AVBP	**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** = NBR **E** = EPDM