



**Flow-Max<sup>®</sup> Pleated Cartridges  
For Reduced Filtration Costs**

# Get more filtration for the money with Flow-Max® pleated cartridges for high flow, long life, greater sediment removal and reduced filtration costs.

*Flow-Max filter cartridges outperform wound, spun, melt blown, resin bonded and other "depth" type filter elements because our cartridges are pleated to provide increased surface area and longer life.*

*Lower pressure drop is another significant advantage, using Flow-Max pleated cartridges, which allows for increased flow rates and the use of smaller filter housings to reduce capital equipment costs.*

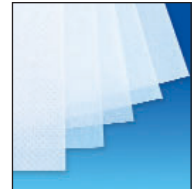
*Further savings are provided because our 100% synthetic filter media is cleanable, five micron and up, to lower cartridge replacement costs.*



*Flow-Max filter cartridges outperform other pleated elements because our high-performance filter media is systematically produced using 100% synthetic fibers, with no binders or additives to leave a residue, foam or contaminate.*

*Our filter media is dramatically thicker than other products. For this reason, Flow-Max cartridges provide "depth" filtration for greater sediment removal, along with more surface area with our pleated design.*

A multi-ply laminate is used with our sub and one micron absolute grades for longer life and greater solids removal. (See right.)



## Features

Filter media is pleated for greater surface area.

Synthetic filter media is cellulose-free.

"Thicker" filter media has a greater capacity to capture and retain particles, compared to thin, more rigid media types, which have less void space for particle retention.

One micron absolute and 0.35 media use a multi-ply laminate for superior performance.

Long lengths have netting to hold pleats in place.

All cartridge types and lengths are wrapped.

Full product line (types, lengths & micron ratings).

## Benefits

Low pressure drop; long life; reduced filtration costs, compared to wound and spun cartridges.

No additives or binders, which may cause foaming.

Increased dirt holding capacity; longer life; fewer cartridge replacements needed; and reduced filtration costs, compared to other pleated cartridge suppliers.

Increased particle removal efficiency; longer life; and reduced cost per gallon filtered.

Superior performance and appearance.

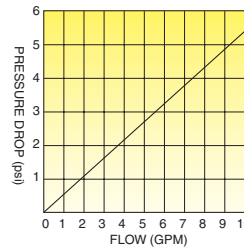
Provides security at no additional cost.

Greater selection from your single source supplier!

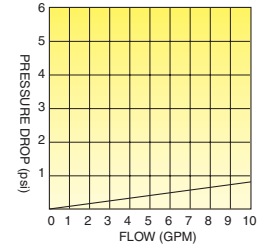
***Flow-Max® cartridges cost less to use . . . regardless what they cost to buy!***

## Lower pressure drop for higher flow rates

Flow-Max® cartridges are pleated, so initial pressure drop is significantly less compared to depth cartridges, such as wound, spun, melt blown and resin bonded. As a result, higher flow rates are possible, reducing filter housing size requirements to lower capital equipment costs.

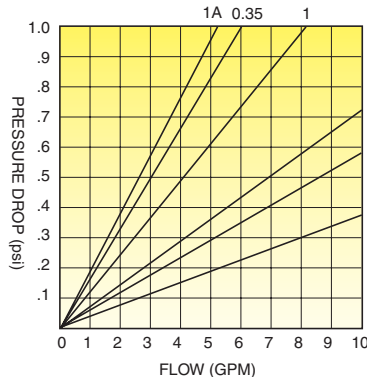


Depth cartridge  
(5 micron)

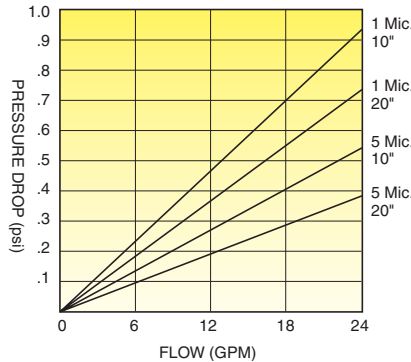


Flow-Max® cartridge  
(5 micron)

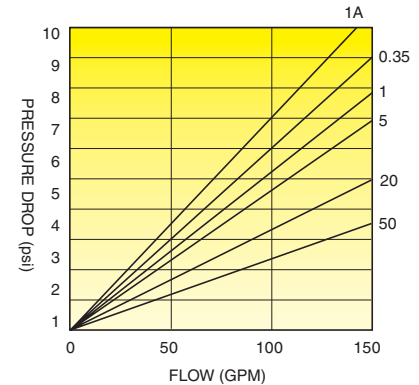
**Use the pressure drop charts shown below to help determine the ideal flow rate for your particular application:**



Standard cartridges (9-3/4")



Full-Flow (B-B) cartridges



Jumbo cartridges

**Note:** Pressure drop data shown above include filter housing and cartridge.

## Flow rates

Maximum flow rate guidelines for Flow-Max cartridges are shown below:

Micron Rating	Maximum Flow Rates Per Cartridge (GPM)							
	Standard Cartridge			10" Full-Flow	20" Full-Flow	Jumbo Cartridge		
	9-3/4"	20"	29-1/4"			40	90	170
1 Absolute	3	6	9	8	12	20	40	80
0.35 Micron	4	8	12	9	13	25	50	100
1 Micron	4	8	12	10	15	30	60	120
5 Micron	7	14	21	15	25	50	100	150
20 Micron	8	16	24	15	25	50	100	150
50 Micron	10	20	30	15	25	50	100	150

**Note:** Filter housing selection should also be considered when flow rate per cartridge is determined.



## Washable & reusable

Flow-Max® cartridges are washable and reusable, five micron and up to reduce filtration costs. For best results, direct spray into pleats to dislodge sediment. Or, let dry and brush off filter cake from surface of the media.

**All Flow-Max® cartridges are individually shrink wrapped for purity**



# Flow-Max® Standard 2-3/4" OD Cartridges

*With cellulose-free filter media for water filtration applications*



## Standard 2-3/4" OD x 9-3/4" length

Product Code	Media Type	Micron Rating	Number Per Case
FM-1A-975	Synthetic	1 Absolute	24
FM-0.35-975	Synthetic	0.35	24
FM-1-975	Synthetic	1	24
FM-5-975	Synthetic	5	24
FM-20-975	Synthetic	20	24
FM-50-975	Synthetic	50	24
FM-100-975	Synthetic	100	24

## Standard 2-3/4" OD x 19-1/2" length

Product Code	Media Type	Micron Rating	Number Per Case
FM-1-195	Synthetic	1	24
FM-5-195	Synthetic	5	24
FM-20-195	Synthetic	20	24
FM-50-195	Synthetic	50	24

## Standard 2-3/4" OD x 20" length

Product Code	Media Type	Micron Rating	Number Per Case
FM-1A-20	Synthetic	1 Absolute	24
FM-0.35-20	Synthetic	0.35	24
FM-1-20	Synthetic	1	24
FM-5-20	Synthetic	5	24
FM-20-20	Synthetic	20	24
FM-50-20	Synthetic	50	24

## Standard 2-3/4" OD x 29-1/4" length

Product Code	Media Type	Micron Rating	Number Per Case
FM-1A-2925	Synthetic	1 Absolute	24
FM-0.35-2925	Synthetic	0.35	24
FM-1-2925	Synthetic	1	24
FM-5-2925	Synthetic	5	24
FM-20-2925	Synthetic	20	24
FM-50-2925	Synthetic	50	24

## Standard 2-3/4" OD x 40" length

Product Code	Media Type	Micron Rating	Number Per Case
FM-1-40	Synthetic	1	24
FM-5-40	Synthetic	5	24
FM-20-40	Synthetic	20	24
FM-50-40	Synthetic	50	24

## Specifications

Filter media	Synthetic (100% cellulose-free)
End caps	Plastisol (PVC)
Center tubes	Polypropylene
Temperature range	40°F - 140°F (4.4°C - 60°C)
Maximum Pressure	40 PSID
Recommended change out	20 - 30 PSID
Flow rate per 10" cartridge	3-10 GPM, depending on micron rating



# Flow-Max<sup>®</sup> Full-Flow Cartridges

4-1/2" OD cartridges with cellulose-free filter media for water filtration applications



## One micron absolute rated and 0.35 nominal micron cartridges

Ideal for water filtration to remove Cryptosporidium and Giardia cysts. Both grades utilize a multi-ply filter media for greater retention efficiencies and long life.

### Full-Flow (B-B) 4-1/2" OD x 9-3/4" length

Product Code	Length	Media Type	Micron Rating	Number Per Case
FM-BB-10-1A	9-3/4"	Synthetic	1 Absolute	8
FM-BB-10-0.35	9-3/4"	Synthetic	0.35	8
FM-BB-10-1	9-3/4"	Synthetic	1	8
FM-BB-10-5	9-3/4"	Synthetic	5	8
FM-BB-10-20	9-3/4"	Synthetic	20	8
FM-BB-10-50	9-3/4"	Synthetic	50	8

Note: Cartridges listed above fit in Full-Flow and Big-Blue<sup>®</sup> filter housings.

### Full-Flow (B-B) 4-1/2" OD x 20" length

Product Code	Length	Media Type	Micron Rating	Number Per Case
FM-BB-20-1A	20"	Synthetic	1 Absolute	4
FM-BB-20-0.35	20"	Synthetic	0.35	4
FM-BB-20-1	20"	Synthetic	1	4
FM-BB-20-5	20"	Synthetic	5	4
FM-BB-20-20	20"	Synthetic	20	4
FM-BB-20-50	20"	Synthetic	50	4

Note: Cartridges listed above fit in Full-Flow and Big-Blue<sup>®</sup> filter housings.

### Specifications (synthetic media for sediment)

Maximum temperature	140°F (60°C)	Center tubes	PVC
Minimum temperature	40°F (4.4°C)	End caps	Molded urethane
Maximum pressure	40 PSID	Maximum flow rate, model 40	50 GPM (12M <sup>3</sup> HR)
Recommended change out	25-30 PSID	Maximum flow rate, model 90	100 GPM (24M <sup>3</sup> HR)
Filter media	PE & PP	Maximum flow rate, model 170	150 GPM (36M <sup>3</sup> HR)

# Flow-Max® Jumbo Filter Cartridges

*With cellulose-free filter media for water filtration applications*



Standard Synthetic Media



Flow-Max jumbo filter cartridge



PP Mesh Media

## Model 40

Filter Housing Model Number	Micron Rating	Product Code with Synthetic Media	Product Code with Mesh Media	Number Per Case
40	1 Absolute	FMHC-40-1A	N. A.	1
	0.35	FMHC-40-0.35	N. A.	1
	1	FMHC-40-1	N. A.	1
	5	FMHC-40-5	N. A.	1
	20	FMHC-40-20	N. A.	1
	50	FMHC-40-50	FMJC-40-50M	1
	100	FMHC-40-100	N. A.	1
	150	N. A.	FMJC-40-150M	1

## Model 90

Filter Housing Model Number	Micron Rating	Product Code with Synthetic Media	Product Code with Mesh Media	Number Per Case
90	1 Absolute	FMHC-90-1A	N. A.	1
	0.35	FMHC-90-0.35	N. A.	1
	1	FMHC-90-1	N. A.	1
	5	FMHC-90-5	N. A.	1
	20	FMHC-90-20	N. A.	1
	50	FMHC-90-50	FMJC-90-50M	1
	100	FMHC-90-100	N. A.	1
	150	N. A.	FMJC-90-150M	1

## Model 170

Filter Housing Model Number	Micron Rating	Product Code with Synthetic Media	Product Code with Mesh Media	Number Per Case
170	1 Absolute	FMHC-170-1A	N. A.	1
	0.35	FMHC-170-0.35	N. A.	1
	1	FMHC-170-1	N. A.	1
	5	FMHC-170-5	N. A.	1
	20	FMHC-170-20	N. A.	1
	50	FMHC-170-50	FMJC-170-50M	1
	100	FMHC-170-100	N. A.	1
	150	N. A.	FMJC-170-150M	1

# Flow-Max<sup>®</sup>

## Phenolic Impregnated Cellulose Cartridges

*For Industrial Hot Water & Non-Aqueous Applications*

### Applications

- High temperature industrial water filtration
- Lubricating oil
- Cutting fluids
- Solvents
- Distillate fuel
- Fuel oil
- Hydraulic fluids



Specifications	Data
Maximum temperature	250°F (121°C)
Minimum temperature	-20°F (-29°C)
Maximum pressure	70 PSID (482 k PA)
Recommended change out	25 PSID (172 k PA)
Media	Phenolic impregnated cellulose
End caps, cores, outer body	Electro plated tin

### Jumbo Model 40 (7-3/4" x 9-5/8") for flow rates to 50 GPM

Part Number	Model Number	Length	Micron	No. / case
FMPIC-40-5-HT	40	9-5/8"	5	1
FMPIC-40-20-HT	40	9-5/8"	20	1
FMPIC-40-50-HT	40	9-5/8"	50	1

### Jumbo Model 90 (7-3/4" x 19-1/2") for flow rates to 100 GPM

Part Number	Model Number	Length	Micron	No. / case
FMPIC-90-5-HT	90	19-1/2"	5	1
FMPIC-90-20-HT	90	19-1/2"	20	1
FMPIC-90-50-HT	90	19-1/2"	50	1

### Jumbo Model 170 (7-3/4" x 30-3/4") for flow rates to 150 GPM

Part Number	Model Number	Length	Micron	No. / case
FMPIC-170-5-HT	170	30-3/4"	5	1
FMPIC-170-20-HT	170	30-3/4"	20	1
FMPIC-170-50-HT	170	30-3/4"	50	1

Note: Jumbo 40, 90 and 170 cartridges listed above fit in Flow-Max housings only. Phenolic impregnated cellulose cartridges are not cleanable or reusable; and they are not suitable for potable water.

# Flow-Max® HP Series Cartridges

100% polypropylene construction with efficiencies to 99.98%.

## High efficiency pleated cartridges

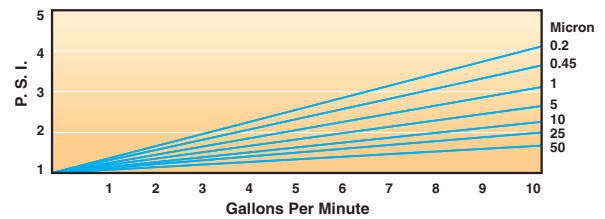
Flow-Max HP series cartridges are cost efficient, disposable filter elements for a wide range of applications. Constructed entirely of polypropylene, they are ideally suited for critical filtration, including high purity water and aggressive chemicals.

## Applications

- High purity water
- Pre-filtration for RO
- Plating solutions
- Inks
- Bottled water
- Rinse water for electronics
- Edible oils
- Traps for DI resin



Initial pressure drop per 10" cartridge



## Product codes

Part Number	Micron	Length	End Cap	Number / Case	Ship Wt. (lbs.)
FPP-0.2-975-DOE	0.2	9-3/4"	DOE	24	12
FPP-0.2-20-DOE	0.2	20"	DOE	12	11
FPP-0.2-30-DOE	0.2	30"	DOE	12	17
FPP-0.2-40-DOE	0.2	40"	DOE	12	21
FPP-0.2-10-222	0.2	10"	222 / Flat	24	12
FPP-0.2-20-222	0.2	20"	222 / Flat	12	11
FPP-0.2-30-222	0.2	30"	222 / Flat	12	17
FPP-0.2-40-222	0.2	40"	222 / Flat	12	21
FPP-0.2-10-222F	0.2	10"	222 / Fin	24	12
FPP-0.2-20-222F	0.2	20"	222 / Fin	12	11
FPP-0.2-30-222F	0.2	30"	222 / Fin	12	17
FPP-0.2-40-222F	0.2	40"	222 / Fin	12	21
FPP-1-975-DOE	1	9-3/4"	DOE	24	12
FPP-1-20-DOE	1	20"	DOE	12	11
FPP-1-30-DOE	1	30"	DOE	12	17
FPP-1-40-DOE	1	40"	DOE	12	21
FPP-1-10-222	1	10"	222 / Flat	24	12
FPP-1-20-222	1	20"	222 / Flat	12	11
FPP-1-30-222	1	30"	222 / Flat	12	17
FPP-1-40-222	1	40"	222 / Flat	12	21

Additional micron ratings and types are available. Please inquire.

**Flow-Max® Filters**



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