

# Flow-Max® HP Series Filter Cartridges

## High efficiency pleated filter cartridges

Flow-Max HP series filter cartridges are cost effective, disposable, filter elements for a wide range of applications. Flow-Max HP cartridges are constructed of highly efficient pleated polypropylene filter media with extended filter area to provide high flow rates, low pressure drop and increased dirt holding capacity.

### Features

- 100% polypropylene
- Ratings from 0.2 to 50 micron
- FDA listed polypropylene components
- Removal efficiencies to 99.98%
- High surface area
- Long service life & reduced maintenance costs
- Fixed pore construction for reliability

### Application

- High purity water
- Traps for DI resin
- Electronics
- Pre filtration for RO
- Magnetic tape coatings
- Aqueous solutions
- Plating solutions
- Chemicals
- Cosmetics
- Inks
- Food & beverage
- Bottled water
- Edible oils
- Waste water

### Specifications

Components	Data
Filter media	Polypropylene
End caps	Polypropylene
Center tubes	Polypropylene
Cage	Polypropylene
Gaskets & o-rings	EPDM, standard. (Buna-N, Viton and Silicone are optional.)
Micron ratings	0.2, 0.45, 1, 2, 5, 10, 25 & 50
Operating temperature	175° F (80° C) maximum
Collapse pressure	130 psid (8.9 bar) maximum
Change out	35 psid (2.4 bar) maximum
FDA	All materials comply with FDA 174.5, 177.1520 & 177.1630 for contact with foods & beverages

### Dimensions

Nominal lengths	4-7/8", 9-3/4", 10", 20", 30" & 40"
Outside diameter	2.5" (6.35 cm)
Inside diameter	1.0" (2.54 cm)

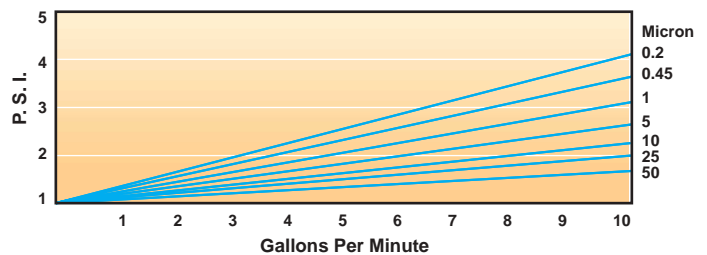


### Filter removal efficiency

Beta ratio	10000	5000	100	50	10
Efficiency	99.99%	99.98%	99%	98%	90%
0.2 micron	0.35	0.2	0.1	----	----
0.45	0.6	0.45	0.3	0.2	----
1 micron	1.2	1.0	0.6	0.3	0.25
2 micron	2.5	2.0	1.5	1.0	0.8
5 micron	8.0	5.0	4.0	3.0	2.0
10 micron	13.0	10.0	8.0	7.0	5.0
25 micron	32.0	25.0	19.0	15.0	13.0
50 micron	66.0	50.0	44.0	32.0	26.0

Relative performance data were developed using laboratory tests, which may be used for guidelines in cartridge selection. The single-pass test method was used with particle counters and 3 GPM flow per 10" cartridge. Results vary, and actual field tests may be necessary to determine final cartridge selection.

### Initial pressure drop per 10" cartridge



DOE



222 or 226 / Flat



222 or 226 / Fin

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Product code	Micron	Length	End Cap	No./case	Ship weight
FPP-0.2-975-DOE	0.2	9-3/4"	DOE	24	12 lbs.
FPP-0.2-20-DOE	0.2	20"	DOE	12	11 lbs.
FPP-0.2-30-DOE	0.2	30"	DOE	12	17 lbs.
FPP-0.2-40-DOE	0.2	40"	DOE	12	21 lbs.
FPP-0.2-10-222	0.2	10"	222 / flat	24	12 lbs.
FPP-0.2-20-222	0.2	20"	222 / flat	12	11 lbs.
FPP-0.2-30-222	0.2	30"	222 / flat	12	17 lbs.
FPP-0.2-40-222	0.2	40"	222 / flat	12	21 lbs.
FPP-0.2-10-222F	0.2	10"	222 / fin	24	12 lbs.
FPP-0.2-20-222F	0.2	20"	222 / fin	12	11 lbs.
FPP-0.2-30-222F	0.2	30"	222 / fin	12	17 lbs.
FPP-0.2-40-222F	0.2	40"	222 / fin	12	21 lbs.
FPP-0.45-975-DOE	0.45	9-3/4"	DOE	24	12 lbs.
FPP-0.45-20-DOE	0.45	20"	DOE	12	11 lbs.
FPP-0.45-30-DOE	0.45	30"	DOE	12	17 lbs.
FPP-0.45-40-DOE	0.45	40"	DOE	12	21 lbs.
FPP-1-975-DOE	1	9-3/4"	DOE	24	12 lbs.
FPP-1-20-DOE	1	20"	DOE	12	11 lbs.
FPP-1-30-DOE	1	30"	DOE	12	17 lbs.
FPP-1-40-DOE	1	40"	DOE	12	21 lbs.
FPP-1-10-222	1	10"	222 / flat	24	12 lbs.
FPP-1-20-222	1	20"	222 / flat	12	11 lbs.
FPP-1-30-222	1	30"	222 / flat	12	17 lbs.
FPP-1-40-222	1	40"	222 / flat	12	21 lbs.
FPP-1-10-222F	1	10"	222 / fin	24	12 lbs.
FPP-1-20-222F	1	20"	222 / fin	12	11 lbs.
FPP-1-30-222F	1	30"	222 / fin	12	17 lbs.
FPP-1-40-222F	1	40"	222 / fin	12	21 lbs.
FPP-5-975-DOE	5	9-3/4"	DOE	24	12 lbs.
FPP-5-20-DOE	5	20"	DOE	12	11 lbs.
FPP-5-30-DOE	5	30"	DOE	12	17 lbs.
FPP-5-40-DOE	5	40"	DOE	12	21 lbs.
FPP-5-10-222	5	10"	222 / flat	24	12 lbs.
FPP-5-20-222	5	20"	222 / flat	12	11 lbs.
FPP-5-30-222	5	30"	222 / flat	12	17 lbs.
FPP-5-40-222	5	40"	222 / flat	12	21 lbs.
FPP-5-10-222F	5	10"	222 / fin	24	12 lbs.
FPP-5-20-222F	5	20"	222 / fin	12	11 lbs.
FPP-5-30-222F	5	30"	222 / fin	12	17 lbs.
FPP-5-40-222F	5	40"	222 / fin	12	21 lbs.

**Note:** 0.45, 2, 10, 25, and 50 micron ratings are also available by special order. (Substitute micron rating at appropriate place in produce code.) Standard gaskets and o-rings are EPDM. Buna-N, Viton and Silicone are also available. (For special gaskets or o-rings, add "B" for Buna-N, "V" for Viton or "S" for Silicone at end of product code.) Substitute 226 for 222 for 226 cartridges.

**Flow-Max® Filters**

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MADE IN U.S.A.



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