

C-4015

Fulflo® Flo-Pac® Filter Cartridges

Superior Industrial Filtration From a Pleated Cartridge Design

Parker Fulflo® Flo-Pac® Cartridges are the perfect choice for many industrial filtration requirements. Flo-Pac pleated cartridges contain premium grade, phenolic impregnated cellulosic filter media. Parker's line of pleated cartridges is designed for critical filtration applications, providing long service life, high flow rate and low pressure drop.

Flo-Pac Pleated Cartridges are available in 0.5µm, 1µm, 5µm, 10µm, 20µm, 30µm, and 60µm pore sizes (95% removal; $\beta = 20$).



Benefits

- Pleated cellulosic media allow high flow capacity at low pressure drop
- Available in a variety of sizes and configurations to fit most industrial vessels
- Phenolic resin impregnated to provide strength, integrity and high contaminant capacity
- High strength spiral core withstands pressure surges to 100 psid
- Suitable for operating temperatures to 250°F (121°C)

- Outer sleeve protects the media from damage
- ETP (Electro-tin-plated) steel metal components for both aqueous and oil-based applications
- Buna-N gaskets are standard, other materials are available

Applications

- Water Soluble
- Coolants
- Quench Oils
- Fuels
- Lubricating Oils
- Hydraulic Oils
- EDM Dielectrics
- Rolling Mill Oils
- Processing Liquids
- Gasoline



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Specifications

Materials of Construction:

Filter Media: Phenolic impregnated cellulose
 Cores ETP steel
 End Caps: ETP steel
 Sleeve: 300 series - polypropylene
 600 & 700 series - ETP steel
 Adhesive: Thermosetting PVC
 End Seals: 300 & 700 Series—Buna-N gaskets, 600 Series—Buna-N gaskets/grommets, 500 Series—fiber gaskets,

Packaging:

300 Series:
 310—24/carton (12 lb ≈ shipping wt)
 320—12/carton (12 lb ≈ shipping wt)
 330—12/carton (18 lb ≈ shipping wt)
 340—12/carton (24 lb ≈ shipping wt)
500 Series:
 518—6/carton (14 lb ≈ shipping wt)
600 Series:
 614—6/carton (20 lb ≈ shipping wt)
 629—4/carton (26 lb ≈ shipping wt)
 644—4/carton (40 lb ≈ shipping wt)
700 Series:
 718—6/carton (20 lb ≈ shipping wt)
 736—4/carton (26 lb ≈ shipping wt)
 754—4/carton (39 lb ≈ shipping wt)

Maximum Recommended Operating Conditions:

Temperature: 250°F (121°C)
 Differential Pressure: 70 psi (4.8 bar)
 Change Out ΔP: 35 psid (2.4 bar)
 Flow Rate per Single Length Cartridge:
 300 Series 7 gpm
 500 Series 50 gpm
 600 Series (3-1/2 in ID) 50 gpm
 600 Series (1-9/16 in ID) 35 gpm
 700 Series 50 gpm

Dimensions:

300 Series
 2-1/2 in OD x 1 in ID x 9-5/8 in,
 19-3/4 in, 29-1/4 in, 29-5/8 in, 40 in
 500 Series
 4-1/2 in OD x 1-3/4 in ID x 18 in
 600 Series
 6-1/4 in OD x 3-1/12, 1-9/16 in or 1-1/4 in ID x 14-3/8, 29 or 43-3/8 in long
 700 Series
 6-1/4 in OD x 2-5/8 in or 2-1/8 in ID x 18, 36, or 54 in long

Filtration Ratings:

95% at 0.5µm, 1µm, 5µm, 10µm, 20µm, 30µm, and 60µm pore sizes

■ Liquid Particle Retention Ratings (µm) at Removal Efficiencies of:

Cartridge	β=5000 Absolute	β=1000 99.9%	β=100 99%	β=20 95%	β=10 90%
FP-0.5	12	10	3	0.5	<0.5
FP-1	15	12	6	1	<1.0
FP-5	30	20	9	5	3.5
FP-10	50	35	18	10	7
FP-20	90	70	40	20	12
FP-30	100	85	50	30	21
FP-60	200	150	90	60	45

Flow Rate and Pressure Drop Formulas

$$\text{Flow Rate (gpm)} = \frac{\text{Clean } \Delta P \times \text{Length Factor}}{\text{Viscosity} \times \text{Flow Factor}}$$

$$\text{Clean DP} = \frac{\text{Flow Rate} \times \text{Viscosity} \times \text{Flow Factor}}{\text{Length Factor}}$$

- Clean ΔP is PSI differential at start.
- Viscosity is centistokes. Use Conversion Tables for other units.
- Flow Factor is ΔP/GPM at 1 cks for 10 in (or single).
- Length Factors convert flow or ΔP from 10 in (single length) to required cartridge length.

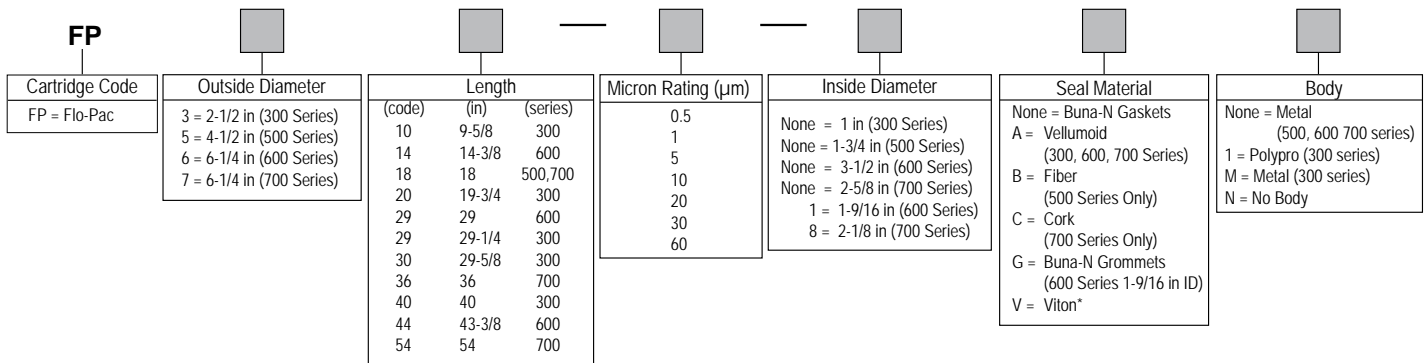
FP Flow Factors (psid/gpm @ 1 cks)

Rating (µm)	Flow Factor
0.5	0.0260
1	0.0170
5	0.0020
10	0.0018
20	0.0010
30	0.0009
60	0.0005

FP Length Factors

Style	Length Factor
FP310	1.0
FP320	2.0
FP330	3.0
FP340	4.0
FP518	3.3
FP614	3.6
FP629	7.2
FP644	10.8
FP718	6.5
FP736	13.0
FP754	19.5

Ordering Information



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