

Fulflo® Flo-Pac® 300, 500, 600 and 700 Series Filter Cartridges

■ Phenolic Resin Bonded
Cellulosic Media

Pleated Series

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; $\beta = 20$).

Applications

- Jet Fuels
- Coolants
- Quench Oils
- Refineries
- Solvents
- Lubricating Oils
- Hydraulic Oils
- EDM Dielectrics
- Rolling Mill Oils
- Processing Liquids



Features and 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.
- 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.

Process Filtration Division



Pleated Series

Specifications

Filtration Ratings:

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

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

Recommended Operating Conditions:

- Maximum Temperature: 250°F (121°C)
- Change Out ΔP: 35 psid (2.4 bar)
- Maximum 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 (1-1/4 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 long
- 500 Series -
4-1/2 in OD x 1-3/4 in ID x 18 in long

- 600 Series -
6-1/4 in OD x 3-1/12 in or
1-1/4 in ID x 14-3/8 in or 29 in long
- 700 Series -
6-1/4 in OD x 2-5/8 in or
2-1/8 in ID x 18 in or 36 in long

Packaging:

- 300 Series -
310 - 24/carton (12 lb ≈ shipping weight)
320 - 12/carton (12 lb ≈ shipping weight)
330 - 12/carton (18 lb ≈ shipping weight)
- 500 Series -
518 - 6/carton (14 lb ≈ shipping weight)
- 600 Series -
614 - 6/carton (20 lb ≈ shipping weight)
629 - 6/carton (40 lb ≈ shipping weight)
- 700 Series -
718 - 6/carton (20 lb ≈ shipping weight)
736 - 4/carton (26 lb ≈ shipping weight)

FP Length Factors

Style	Length Factor
FP310	1.0
FP320	2.0
FP330	3.0
FP518	3.3
FP614	3.6
FP629	7.2
FP718	6.5
FP736	13.0

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

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

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

Flow Rate and Pressure Drop Formulas:

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

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

Notes:

- 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.

Ordering Information

FP	6	14	5	1	G	N
Cartridge Code	Outside Diameter	Length	Micron Rating (µm)	Inside Diameter	Seals	Body
FP = Flo-Pac®	3 = 2-1/2 in (300 Series)	(code) (in) 10 9-5/8 300	0.5 1	None = 1 in (300 Series)	None = Buna-N Gaskets G = Buna-N Grommets (600 Series Only)	None = Metal N = No Body
	5 = 4-1/2 in (500 Series)	14 14-3/8 600 18 18 700 & 500	5 10	None = 1-3/4 in (500 Series)	C = Cork (700 Series Only)	
	6 = 6-1/4 in (600 Series)	20 19-3/4 300 29 29 600	20 30	None = 3-1/2 in, 1 = 1-1/4 in (600 Series)	B = Fiber (500 Series Only)	
	7 = 6-1/4 in (700 Series)	29-1/4 300 30 29-5/8 300 36 36 700	60	None = 2-5/8 in, 8 = 2-1/8 in (700 Series)	V = Vellumoid (300, 600, 700 Series)	

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For pleated cartridge configurations and dimensions, see Bulletin A-700 in the Appendix.

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