

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

■ 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 and 30µm 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 housings.
- 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

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Parker
Filtration

Pleated Series

Specifications

Filtration Ratings:

- 95% at 0.5µm, 1µm, 5µm, 10µm, 20µm and 30µm 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	26.5 l/min
500 Series	189 l/min
600 Series (89mm)	189 l/min
600 Series (32mm)	132 l/min
700 Series	189 l/min

- 600 Series -
159mm OD x 89mm or
38mm ID x 365mm or 737mm long
- 700 Series -
159mm OD x 167mm or
54mm ID x 457mm or 914mm long

Packaging:

- 300 Series -
310 - 24/carton (5.5Kg ≈ shipping weight)
320 - 12/carton (5.5Kg ≈ shipping weight)
330 - 12/carton (8.5Kg ≈ shipping weight)
- 500 Series -
518 - 6/carton (6.5Kg ≈ shipping weight)
- 600 Series -
614 - 6/carton (9.5Kg ≈ shipping weight)
629 - 6/carton (19Kg ≈ shipping weight)
- 700 Series -
718 - 6/carton (9.5Kg ≈ shipping weight)
736 - 4/carton (12Kg ≈ shipping weight)

Dimensions:

- 300 Series -
63mm OD x 254mm ID x 244mm,
19-3/4 in, 29-1/4 in, 29-5/8 in long
- 500 Series -
1143mm OD x 445mm ID x 457mm long

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 (m bard – l/min @ 1 cks)

Rating (µm)	Flow Factor
0.5	0.47
1	0.31
5	0.04
10	0.03
20	0.02
30	0.02

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

Cartridge	β=5000 Absolute	β=1000 99.9%	β=100 99%	β=20 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

Flow Rate and Pressure Drop Formulas:

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

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

Notes:

- Clean ΔP is m band differential at start.
- Viscosity is centistokes. Use Conversion Tables for other units.
- Flow Factor is m bard at l/min at 1 cks for 245mm (or single).
- Length Factors convert flow or ΔP from 245mm (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 = 635mm (300 Series)	(code) (mm)	(series)	0.5	None = 254mm (300 Series)	None = Metal
	5 = 114mm (500 Series)	10 244 300	300	1	None = 445mm (500 Series)	None = No Body
	6 = 159mm (600 Series)	14 365 600	600	5	None = 89mm (700 Series Only)	
	7 = 159mm (700 Series)	18 457 700 & 500	700 & 500	10	C = Cork	
		20 502 300	300	20	(700 Series Only)	
		29 737 600	600	30	B = Fiber (500 Series Only)	
		30 752 300	300	None = 67mm	V = Vellumoid (300, 600, 700 Series)	
		36 914 700	700	8 = 54mm (700 Series)		

Process Filtration Division

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