

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

■ Phenolic Resin Bonded Cellulosic Media

Pleated Series

Special Construction for Organic Solvent Filtration

Parker Fulflo® Flo-Pac®+ Cartridges are the filters of choice for many industrial filtration requirements. Flo-Pac+ Pleated Cartridges are manufactured with premium grade, phenolic impregnated cellulosic filter media for long service life, high flow rate and low pressure drop. Unique epoxy resin bonding of end caps, pleat side seal and gaskets provides excellent resistance to most organic solvents.

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

Applications

- Alcohols
(methanol, ethanol, butanol)
- Aromatic Hydrocarbons
(toluene, xylene, benzene)
- Aliphatic Hydrocarbons
(hexane, pentane, naphtha)
- Ketones
(acetone, isophorone, methyl ethyl ketone)
- Halogenated Hydrocarbons
(methylene chloride, chloroform, perchloroethylene)
- Ethers
(THF, dioxane)
- Glycols
(EG, PEG, DEG)
- Amines
(DEA, TEA, DMEA)
- Esters
(ethyl acetate, cellosolve acetate)



Features and Benefits

- Epoxy bonding of end caps, pleat side seal and gaskets provides resistance to most organic solvents.
- Premium pleated cellulosic media allow high flow capacity at low pressure drop.
- Available in a variety of sizes and configurations to fit most industrial housings.
- Impregnated phenolic resin provides strength, integrity and high contaminant capacity.
- Suitable for operating temperatures to 250°F (121°C).
- Perforated outer metal sleeve protects the media against damage.
- ETP (Electro-tin-plated) steel metal components for aqueous and oil-based applications.
- Gaskets provide positive seals and are available in Viton,* cork and standard vellumoid.
- Recommended range is pH 4-10. Please call for specific recommendation.

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: ETP steel
- Adhesive: epoxy
- End Seals: vellumoid (standard), Viton,* cork

Recommended Operating Conditions:

- Maximum Temperature: 250°F (121°C)
- Change Out ΔP: 35 psi (2.4 bar)
- Maximum Flow Rate per Single Length Cartridge:

300 Series	26.5 l/min
600 Series (89mm ID)	189 l/min
600 Series (32mm ID)	132 l/min
700 Series	189 l/min

Dimensions:

- 300 Series - 63mm OD x 254mm x 254mm, 19-3/4 in, 29-1/4 in, 29-5/8 in long
- 600 Series - 159mm OD x 89mm or 38mm ID x 365mm long or 737mm long

700 Series -

159mm OD x 67mm 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)
- 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)

FP+ Length Factor

Style	Length Factor
310	1.0
320	2.0
330	3.0
614	3.6
629	7.2
718	6.5
736	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%
FPE-0.5	12	10	3	0.5
FPE-1	15	12	6	1
FPE-5	30	20	9	5
FPE-10	50	35	18	10
FPE-20	90	70	40	20
FPE-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 bard differential at start.
- Viscosity is centistokes. Use Conversion Tables for other units.
- Flow Factor is m bar at l/min at 1 cks for 245mm (or single).
- Length Factors convert flow or Δ P from 245mm (single length) to required cartridge length.

Ordering Information

FPE	7	18	5	8	A	
Cartridge Code	Outside Diameter	Length (code) (mm)	(series)	Micron Rating (µm)	Inside Diameter	Seals
FPE = Flo-Pac+	3 = 635mm (300 Series)	10 244 300	0.5	300 Series - None = 254mm	A = Vellumoid	
	6 = 159mm (600 Series)	14 365 600	1	600 Series - None = 89mm	V = Viton*	
	7 = 159mm (700 Series)	18 457 700	5	1 = 32mm	C = Cork	
		20 502 300	10	700 Series - None = 67mm		
		29 737 600	20	8 = 54mm		
		30 752 300	30			
		36 914 700				

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