

Flo-Pac® + Pleated Depth Filter Cartridges

Construction for organic solvent filtration

Parker Fulflo® Flo-Pac®+ pleated cartridges are the filters of choice for many industrial filtration requirements. These 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, 30µm, & 60µm pore sizes (95% removal; $\beta = 20$).



Contact Information

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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 & configurations to fit most industrial vessels
- Impregnated phenolic resin provides strength, integrity and high contaminant capacity
- Suitable for operating temps. to 250°F (121°C)
- Perforated outer metal sleeve protects 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)
- Spiral core withstands pressure surges to 100psid
- ISO 9001 registered company

Applications

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



ENGINEERING YOUR SUCCESS.

Flo-Pac® + Filter Cartridges

SPECIFICATIONS

Materials of Construction

Filter Media

Phenolic impregnated cellulose

Core - ETP steel

End Caps - ETP steel

Sleeve - ETP steel

Adhesive - Epoxy

End Seals

Vellumoid (standard), Viton®, cork

Maximum Recommended Operating Conditions

Temperature: 250°F (121°C)

Change Out ΔP: 35psi (2.4bar)

Flow Rate per Single Length Cartridge:

300 Series	7gpm
600 Series (3 1/2 in ID)	50gpm
600 Series (1 9/16 in ID)	35gpm
700 Series	50gpm
Differential Pressure: 70psi (4.8bar)	

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 and 40 in long

600 Series

6 1/4 in. OD x 3 1/2 in. ID or 1 9/16 in. ID x 14 3/8 in. long 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 wt)
320-12/carton (12 lb ≈ shipping wt)
330-12/carton (18 lb ≈ shipping wt)
340-12/carton (24 lb ≈ shipping wt)

600 Series

614-6/carton (20 lb ≈ shipping wt)
629-6/carton (40 lb ≈ shipping wt)

700 Series

718-6/carton (20 lb ≈ shipping wt)
736-4/carton (26 lb ≈ shipping wt)

Filtration Ratings

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

Flow Rate and Pressure Drop Formulas

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

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

FP+ Flow Factor (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
FP329	3.0
FP330	3.0
FP340	4.0
FP614	3.6
FP629	7.2
FP718	6.5
FP736	13.0

Liquid Particle Retention Ratings (μm)

@ Removal Efficiency 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
FPE-60	200	150	90	60

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

Cartridge Code			Outside Diameter			Length			Micron Rating (μm)	Inside Diameter			Seal Material		Body	
CODE	INCHES	SERIES	CODE	INCHES	SERIES	CODE	INCHES	SERIES		CODE	INCHES	SERIES	CODE	DESCRIPTION	CODE	DESCRIPTION
Flo-Pac +			3	2 1/2	300	10	9 5/8	300	0.5	None	1	300	A	Vellumoid (300, 600, 700 Series)	None	Louvered Metal Body (300, 600, 700)
			6	6 1/4	600	14	14 3/8	600	1	None	3 1/2	600	C	Cork (700 Series Only)	EX	Expanded Metal (600, 700)
			7	6 1/4	700	18	18	700	5	None	2 5/8	700	N	Buna-N		
						20	19 3/4	300	10	1	1 9/16	600	V	Viton®		
						29	29	600	20	8	2 1/2	700				
						29	29 1/4	300	30							
						30	29 5/8	300	60							
						36	36	700								
						40	40	300								
						44	43 1/2	600								
						54	54	700								

Specifications are subject to change without notification.
For User Responsibility Statement, see www.parker.com/safety

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