

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 $0.5\mu m$, $1\mu m$, $5\mu m$, $10\mu m$, $20\mu m$, $30\mu m$, and $60\mu m$ pore sizes (95% removal; $\Omega = 20$).

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)

Fulflo® Flo-Pac®+ Filter Cartridges

■ Cellulosic/Phenolic

Pleated Series



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 vessels.
- 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.
- Spiral core withstands pressure surges to 100 psid.

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

Maximum Recommended Operating Conditions:

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

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 weight) 320 - 12/carton (12 lb ≈ shipping weight) 330 - 12/carton (18 lb ≈ shipping weight) 340 - 12/carton (24 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 Factor

Style	Length Factor
310	1.0
320	2.0
330	3.0
340	4.0
614	3.6
629	7.2
718	6.5
736	13.0

FP+ Flow Factors (psid/gpm @ 1 cks)

Rating <i>um)</i>	Flow Factor
0.5	0.0260
1	0.0170
5	0.0020
10	0.0018
20	0.0010
30	0.0009
60	0.0005

Flow Rate and Pressure Drop Formulae:

Flow Rate (gpm) = Clean ΔP x Length Factor Viscosity x Flow Factor

Clean ΔP = Flow Rate x Viscosity x Flow Factor Length Factor

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

Cartridge	ß=5000 Absolut	ß=1000 e 99.9%	ß=100 99%	ß=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

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

Ordering Information

FPE Cartridge Code	7 Outside Diameter	18 Lengt	th		5 Micron R	ating (µm)
FPE = Flo-Pac+	3 = 2-1/2 in (300 Series) 6 = 6-1/4 in (600 Series) 7 = 6-1/4 in (700 Series)	(code 10 14 18 20 29 29 30 36 40	9) (in) 9-5/8 14-3/8 18 19-3/4 29 29-1/4 29-5/8 36 40	(series) 300 600 700 300 600 300 300 700 300 300	0.5 1 5 10 20 30 60	

Inside Diameter Seals None = 1 in (300 Series) A = Vellumoid None = 3-1/2 in (600 Series) C = Cork None = 2-5/8 in (700 Series) V = Viton* 8 = 2-1/8 in (700 Series) 1 = 1-9/16 in (600 Series)

Process Filtration Division

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Filtration

Bulletin C-4016

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