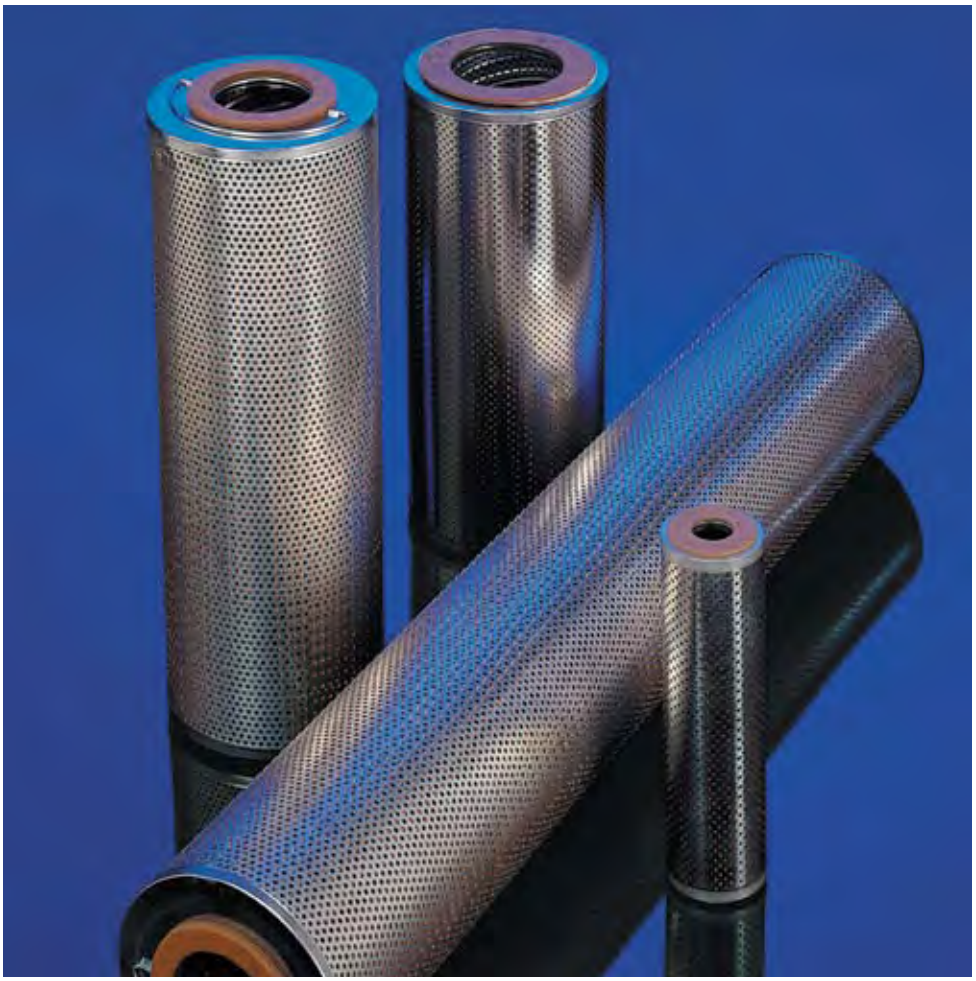
Fulflo® Flo-Pac® + Filter Cartridges

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, 30µm, and 60µm pore sizes (95% removal; ß = 20).



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

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)

Fulflo® Flo-Pac® + Filter Cartridges

Specifications

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 ΔP: 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 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

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

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

1. Clean ΔP is PSI differential at start.
2. Viscosity is centistokes. Use Conversion Tables for other units.
3. Flow Factor is ΔP/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.

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

FP Length Factors

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

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

Cartridge	ß=5000 Absolute	ß=1000 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

Ordering Information

FPE — ☐ — ☐ — ☐ — ☐

Cartridge Code
FPE = Flo-Pac+

Outside Diameter
3 = 2-1/2 in (300 Series)
6 = 6-1/4 in (600 Series)
7 = 6-1/4 in (700 Series)

Length

(code)	(in)	(series)
10	9-5/8	300
14	14-3/8	600
18	18	700
20	19-3/4	300
29	29	600
29	29-1/4	300
30	29-5/8	300
36	36	700
40	40	300

Micron Rating (µm)
0.5
1
5
10
20
30
60

Inside Diameter
None = 1 in (300 Series)
None = 3-1/2 in (600 Series)
None = 2-5/8 in (700 Series)
8 = 2-1/8 in (700 Series)
1 = 1-9/16 in (600 Series)

Seals
A = Vellumoid
C = Cork
V = Viton*
N = Buna-N

Specifications are subject to change without notification.
*Viton is a registered trademark of E.I. DuPont de Nemours & Co., Inc.

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