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# **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

# Fulflo® Flo-Pac® 300, 500, 600 and 700 Series **Filter Cartridges**

■ Phenolic Resin Bonded Cellulosic Media

## Pleated Series



### **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** 



## **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 steelEnd Caps: ETP steel
- Sleeve: 300 series polypropylene 600 & 700 series - ETP steel
- Adhesive: thermosetting PVC

500 Series - fiber gaskets

 End Seals:
 300 & 700 Series - Buna-N gaskets
 600 Series - Buna-N gaskets/ grommets

### **Recommended Operating Conditions:**

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

 300 Series
 7 gpm

 500 Series
 50 gpm

 600 Series (3-1/2 in ID)
 50 gpm

 600 Series (1-1/4 in ID)
 35 gpm

 700 Series
 50 gpm

#### **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 long
- 500 Series -4-1/2 in OD x 1-3/4 in ID x 18 in long

- 600 Series -6-1/4 in OD x 3-1/12 in or 1-1/4 in ID x 14-3/8 in 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  $\approx$  shipping weight) 320 - 12/carton (12 lb  $\approx$  shipping weight) 330 - 12/carton (18 lb  $\approx$  shipping weight)
- 500 Series -518 - 6/carton (14 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 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 (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

#### Flow Rate and Pressure Drop Formulas:

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

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

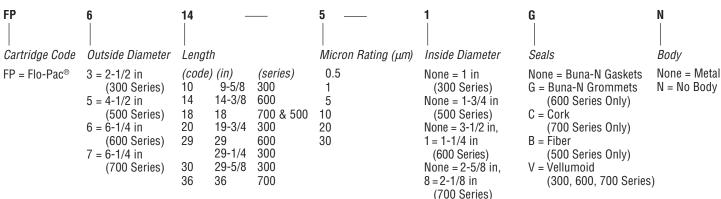
#### Liquid Particle Retention Ratings (µm) at Removal Efficiencies of:

Cartridge	ß=5000 Absolute	ß=1000 99.9%	ß=100 99%	ß=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

#### Notes:

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

# **Ordering Information**



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