

# Flo-Pac® Pleated Depth Filter Cartridges

Pleated cartridges for superior industrial filtration

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



## Benefits

- Pleated cellulosic media allow high flow capacity at low pressure drop
- Available in a variety of sizes and configurations to fit most industrial vessels
- Phenolic resin impregnated to provide strength, integrity and high contaminant capacity
- High strength spiral core withstands pressure surges to 100psid
- 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
- ISO 9001 registered company

## Applications

- Water Soluble
- Coolants
- Quench Oils
- Fuels
- Lubricating Oils
- Hydraulic Oils
- EDM Dielectrics
- Rolling Mill Oils
- Processing Liquids
- Gasoline

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# Flo-Pac® Filter Cartridges

## SPECIFICATIONS

### Filtration Ratings

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

### Materials of Construction

#### Filter Media:

Phenolic impregnated cellulose

#### Core: ETP steel

#### End Caps: ETP steel

#### Sleeve:

300 series - Polypropylene  
600 & 700 series - ETP steel

#### Adhesive: Thermosetting PVC

#### End Seals:

300 & 700 Series—Buna-N gaskets, 600 Series—Buna-N gaskets/grommets, 500 Series—fiber gaskets

### 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)

#### 500 Series

518—6/carton (14 lb ≈ shipping wt)

#### 600 Series

614—6/carton (20 lb ≈ shipping wt)  
629—4/carton (26 lb ≈ shipping wt)  
644—4/carton (40 lb ≈ shipping wt)

#### 700 Series

718—6/carton (20 lb ≈ shipping wt)  
736—4/carton (26 lb ≈ shipping wt)  
754—4/carton (39 lb ≈ shipping wt)

### Maximum Recommended Operating Conditions

Temperature: 250°F (121°C)

Differential Pressure: 70psi (4.8bar)

Change Out ΔP: 35psid (2.4bar)

### Flow Rate per Single Length Cartridge:

300 Series 7gpm  
500 Series 50gpm  
600 Series (3 1/2 in. ID) 50gpm  
600 Series (1 9/16 in. ID) 35gpm  
700 Series 50gpm

### 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., 40 in.

#### 500 Series

4 1/2 in. OD x 1 3/4 in. ID x 18 in.

#### 600 Series

6 1/4 in. OD x 3 1/12 in., or 1 9/16 in. x 14 3/8, 29  
or 43 3/8 in. long

#### 700 Series

6 1/4 in. OD x 2 5/8 in. or 2 1/8 in. ID x 18, 36,  
or 54 in. long

### Liquid Particle Retention Ratings (µm) @ Removal Efficiency of:

Cartridge	β=5000 Absolute	β=1000 99.9%	β=100 99%	β=20 95%	β=10 90%
FP-0.5	12	10	3	0.5	<.0.5
FP-1	15	12	6	1	<1.0
FP-5	30	20	9	5	3.5
FP-10	50	35	18	10	7
FP-20	90	70	40	20	12
FP-30	100	85	50	30	21
FP-60	200	150	90	60	45

### 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 @ 1cks)

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
FP518	3.3
FP614	3.6
FP629	7.2
FP644	10.8
FP718	6.5
FP736	13.0
FP754	19.5

#### Notes:

- Clean ΔP is psi differential at start.
- Viscosity is centistokes. Use Conversion Tables for other units.
- Flow Factor is ΔP/GPM at 1cks 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	
FP	Flo-Pac	CODE	INCHES	SERIES	CODE	INCHES	SERIES		CODE	INCHES	SERIES	CODE	DESCRIPTION	CODE	DESCRIPTION
		3	2 1/2	300	10	9 5/8	300	0.5	None	1" (300)	300	None	Buna-N Gaskets	None	Metal (500, 600, 700 Series)
		5	4 1/2	500	14	14 3/8	600	1	None	1 3/4" (500)	500	A	Vellumoid (300, 600, 700 Series)	None	Polypro (300 Series)
		6	6 1/4	600	18	18	500, 700	10	None	3 1/2" (600)	600	B	Fiber (500 Series Only)	M	Metal (300 Series)
		7	6 1/4	700	20	19 3/4	300	20	None	2 3/4" (700)	700	C	Cork (700 Series Only)	N	No Body
					29	29	600	30	1	1 9/16" (600)	600	G	Buna-N Grommets (600 Series 1 9/16" ID)		
					29	29 1/4	300	60	8	2 1/4" (700)	700	V	Viton®		
					30	29 3/8	300								
					36	36	700								
					40	40	300								
					44	43 3/8	600								
					54	54	700								

Specifications are subject to change without notification.  
For User Responsibility Statement, see [www.parker.com/safety](http://www.parker.com/safety)

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