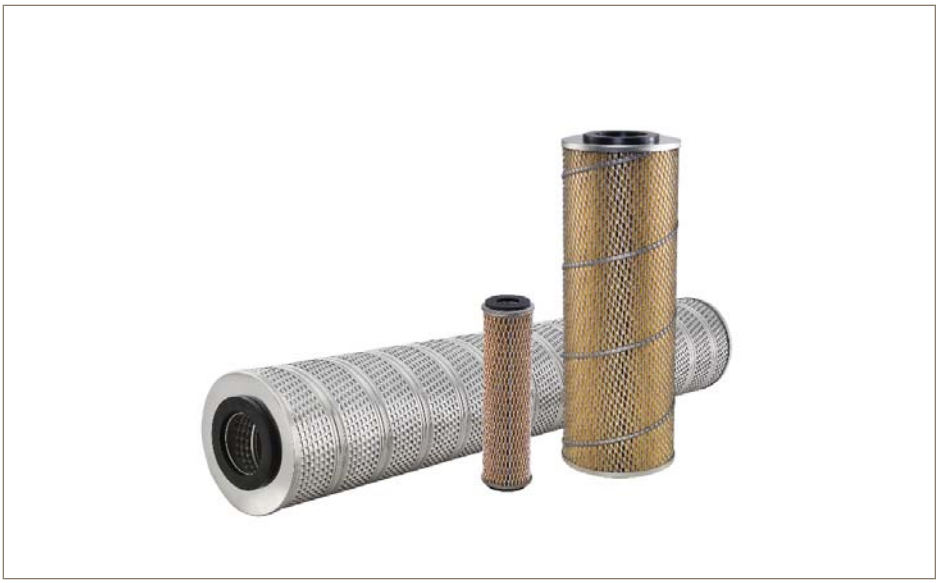
Flo-Pac® Pleated Depth Filter Cartridges

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; ß = 20).



Contact Information

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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

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 ½ in. ID)	50gpm
600 Series (1 9/16 in. ID)	35gpm
700 Series	50gpm

Dimensions

300 Series
2 ½ 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 ½ in. OD x 1 3/4 in. ID x 18 in.

600 Series
6 1/4 in. OD x 3 1/12 , 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

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

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

Cartridge	ß=5000 Absolute	ß=1000 99.9%	ß=100 99%	ß=20 95%	ß=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

Notes:
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 1cks for 10 in. (or single).
4. Length Factors convert flow or ΔP from 10 in. (single length) to required cartridge length.

Ordering Information

FP – [ ] – [ ] – [ ] – [ ] – [ ] – [ ]

Cartridge Code

FP	Flo-Pac

Outside Diameter

CODE	INCHES	SERIES
3	2 ½	300
5	4 ½	500
6	6 ¼	600
7	6 ¼	700

Length

CODE	INCHES	SERIES
10	9 5/8	300
14	14 3/8	600
18	18	500, 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
44	43 3/8	600
54	54	700

Micron Rating (µm)

0.5
1
5
10
20
30
60

Inside Diameter

CODE	INCHES	SERIES
None	1" (300)	300
None	1 3/4" (500)	500
None	3 1/2" (600)	600
None	2 5/8" (700)	700
1	1 9/16" (600)	600
8	2 1/8" (700)	700

Seal Material

CODE	DESCRIPTION
None	Buna-N Gaskets
A	Vellumoid (300, 600, 700 Series)
B	Fiber (500 Series Only)
C	Cork (700 Series Only)
G	Buna-N Grommets (600 Series 1 9/16" ID)
V	Viton®

Body

CODE	DESCRIPTION
None	Metal (500, 600, 700 Series)
	Polypro (300 Series)
M	Metal (300 Series)
N	No Body