



Fulflo® Filter Cartridges

■ 336 Pleated Cartridges

Pleated Series

Pleated cartridge construction improves filtration efficiency, dirt holding capacity & flow rates

Parker's Fulflo® Pleated 336 size filter cartridges provide highly efficient removal of solid contaminants from a variety of petrochemical, refinery and oilfield applications. Cartridges are manufactured from premium grade phenolic impregnated cellulose and polypropylene blown media. These structures provide superior removal efficiency. The cartridges are available in 3 μ , 10 μ , 12 μ , 22 μ , and 100 μ pore sizes. (99.98% removal; $\beta = 5000$)

Applications

- Petrochemical
- Refineries
- Oil Fields
- Produced Water
- Amines
- Glycols



Features and Benefits

- Retrofits into housings that use 3" OD x 36" long SOE cartridges with spring.
- High surface area.
- Low pressure drop.
- Materials compatible with most applications.
- High filtration efficiency
- High dirt holding capacity.
- Rugged construction

Process Filtration Division



Pleated Series

Specifications

Materials of Construction:

- Cellulose: Phenolic impregnated cellulose media
Polypropylene support core and end caps (Steel core optional)
Buna N gasket
316 st. stl. spring
- Polypropylene: Filter media and support layers - Polypropylene
Polypropylene support core and end caps (steel core optional)
Buna-N gasket
316 st. stl. spring

Dimensions:

- OD: 3 in (76 mm)
- ID: 1-9/16 in (40 mm)
- Length: 34-3/4 in (883 mm) less spring:
37-1/8 in (943 mm) with spring

Recommended Operating Conditions:

- Maximum 33 GPM per cartridge
- Polypropylene Support:
 - Maximum Temperature @ 10 PSID (0.7 km/cm²): 200°F (93°C)
 - Maximum Temperature @ 35 PSID (2.5 km/cm²): 125°F (52°C)
 - Maximum Temperature @ 60 PSID (4.2 km/cm²): 75°F (24°C)
 - Optimum Change Out at ΔP : 35 PSID (25 km/cm)
- Steel Support:
 - Maximum Temperature: 250°F (121°C)
 - Maximum ΔP: 50 PSID (3.5 km/cm²)
 - Optimum change Out ΔP: 35 PSID (2.5 km/cm²)

Ordering Information

PCG020	36	A	N	GS
Cartridge Code (μm absolute)	Length	Support	Gasket	Spring Code
PPC005 - (3) PCG020 - (10) PCC2 - (12) PCC10 - (22) PCC30 - (100)	36 = 34-3/4in (883 mm)	A - Polypropylene C - Steel	N - Buna N E - EPR	GSY - st. stl. w/ yellow code (PPC005) GSR - st. stl. w/ red code (PCG020) GSW - st. stl. w/ white code (PCC2) GS - st. stl. w/ no code

Length	Length Factor
336	4

Cartridge	Flow Factor
PPC005	0.090
PCG020	0.026
PCC2	0.017
PCC10	0.002
PCC30	0.001

Cartridge	β=5000 absolute	β=1000 99.7%	β=100 99%	β=50 98%	β@2 micron
PPC005	3	2.8	0.5	<0.5	400
PCG020	10	8.6	1.8	0.9	110
PCC2	12	10	3.2	1.7	64
PCC10	22	18	6	3.2	35
PCC30	100	85	11	4.5	25

Beta Ratio (β) =

$$\frac{\text{Upstream Particle Count @ Specified Particle Size and Larger}}{\text{Downstream Particle Count @ Specified Particle Size and Larger}}$$

$$\text{Percent Removal Efficiency} = \left(\frac{\beta - 1}{\beta} \right) \times 100$$

Performance determined per ASTM F-795-88. single-pass test using AC test dust in water.

Flow Rate and Pressure Drop Formulae:

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

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

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 1 cks for 10 in (or single)
4. **Length Factors** convert flow or DP to required cartridge length.