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Unique Cartridge Construction Improves Particle Retention, Service Life and Flow Rates

Parker Fulflo® Pleated Cellulosic Cartridges meet a broad range of critical filtration applications. Each cartridge in the Fulflo Pleated Cellulosic series is manufactured with premium grade, phenolic impregnated, cellulosic filter media. Phenolic resin locks the cellulosic fibers into a rigid, porous matrix. This structure provides superior particle removal and particle retention performance under the most severe conditions.

Fulflo Pleated Cartridges are available in 2µm, 3µm, 10μm, 30μm and 60μm pore sizes (99% removal: β = 100). For PED compliance contact Parker.

Applications

- Chemical
- Oil Field
- Photographic Film & Paper
- Metal Treatment
- Process Water
- Synthetic Fibers
- Recording Media
- Coatings, Paint, Ink & Resins
- Petroleum
- Process Gas

Fulflo® PCC Filter Cartridge

■ Cellulosic/Phenolic

Pleated Series



Features and Benefits

- Premium pleated cellulosic media allow high flow capacity at low pressure drop.
- Available in a variety of cartridge lengths and end cap configurations to fit most industrial vessels.
- Phenolic resiin impregnated to provide strength, integrity and high contaminant capacity.
- High flow rates permit the use of smaller vessels and fewer cartridges.
- Lower ΔP reduces power requirements and pump wear and tear.
- Longer cartridge life reduces frequency of filter change out resulting in less disposal costs, reduced inventory and less process interruptions.

Process Filtration Division



Pleated Series

Specifications

Filtration Ratings:

■ 99%+ at 2µm, 3µm, 10µm, 30µm, and 60µm pore sizes

Materials of Construction:

- Phenolic impregnated cellulosic media
- Polypropylene support
- Stainless steel support (optional)

Recommended Operating Conditions:

- Maximum 7 gpm per 10 in length (23 lpm/254 mm)
- Liquid Particle Retention Ratings (μm) @ Removal Efficiency of:

ß=5000

- Stainless Steel Support: Maximum Temperature: 250°F (121°C) Maximum ΔP: 50 psi (3.5 kg/cm²) Optimum Change Out ΔP : 35 psi (2.5 km/cm²)
- 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 ΔP @ 75°F (24°C): 60 psi (4.2 kg/cm²) Change Out ΔP : 35 psi (2.5 km/cm²)

ß=20

PCC / PCG Flow Factors (psid/gpm @ 1 cks)

Rating <i>(µm)</i>	Flow Factor
2	0.026
3	0.017
10	0.002
30	0.001
60	0.0005

PCC/PCG **Length Factors**

Length (in)	Length Factor
9	1.0
10	1.0
19	2.0
20	2.0
29	3.0
30	3.0
40	4.0

Flow Rate and Pressure Drop Formulas:

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

Clean ΔP = Flow Rate x Viscosity x Flow Factor 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 $\Delta P/GPM$ at 1 cks for 10 in (or single).
- 4. Length Factors convert flow or ΔP from 10 in (single length) to required cartridge length.

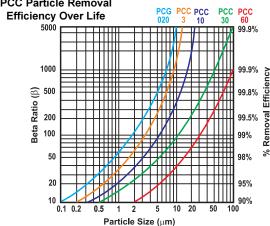
Cartridge **Absolute** 99.9% 99% 98% 95% 90% 1.8 0.9 0.3 PCG 020 0.1 10 7.0 PCC 3 12 9.5 3 1.7 0.6 0.2 PCC 10 22 17 6 3.0 1.0 0.3 PCC 30 5.5 1.5 0.5 100 40 11 PCC 60 100 30 15 5.0 2.0 150 PCC Particle Removal

ß=100

ß=50

ß=20

ß=1000

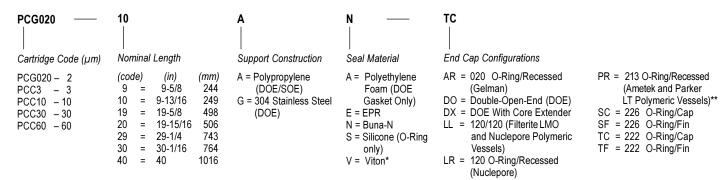


Beta Ratio (B) = Upstream Particle Count @ Specified Particle Size and Larger Downstream Particle Count @ Specified Particle Size and Larger

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

Performance determined per ASTM F-795-88. Single-Pass Test using AC test dust in water at a flow rate of 2.5 gpm per 10 in (9.5 lpm per 254 mm).

Ordering Information



**Available only in 9-5/8" (-9) and 19-5/8" (-19) lengths

* A trademark of E. I. duPont de Nemours & Co.

For pleated cartridge configurations and dimensions, see Bulletin A-700 in the Appendix.

Parker Filtration

Filter Division Europe Shaw Cross Business Park Dewsbury, West Yorkshire WF12 7RD, England

Phone: +44 (0) 1924 487000 Fax: +44 (0) 1924 487001 Website: www.parker.com



Process Filtration Division