

Technologically Advanced Wound Cartridge Design Doubles Cartridge Life and Improves Performance

The unique construction of Parker's patented* Fulflo® XTL™ (extended life) cartridges provides twice the average life of conventionally wound cartridges for process fluid filtration. Computer modeling has optimized the wound cartridge geometry maximizing the use of the internal cartridge surface area. The enhanced design provides improved dirt-holding capacity (twice the average) over standard wound cartridges, while providing true controlled-depth filtration.

Fulflo XTL cartridges are available in nominal (90%) ratings of 1µm, 3µm, 5µm, 10µm, 20µm and 30µm.

Applications

- | | |
|--------------------|----------------------|
| ■ Potable Liquids | ■ Pharmaceuticals |
| ■ Organic Solvents | ■ Lubricants |
| ■ Process Water | ■ Cooking Oils |
| ■ Photoprocessing | ■ Amines |
| ■ Chemical Process | ■ R.O. Prefiltration |
| ■ Disposal Well | |



Features and Benefits

- XTL cartridges result in significant cost savings based on fewer system interruptions, decreased labor expenses for change outs, and reduced inventory and cartridge disposal costs.
- Unique computer programming capability permits the design and manufacture of special cartridge constructions to suit the requirements of nearly any filtration application.
- "M" polypropylene and "C" cotton materials are FDA listed as acceptable for potable and edible liquid contact according to CFR Title 21.
- XTL wound cartridges fit all Fulflo housings and most competitive housings without compromising final product clarity or flow characteristics of the cartridge. The most noticeable difference is the extended life savings offered by XTL cartridges.
- Extended center cores are available in tinned steel, 316 stainless steel and 304 stainless steel.
- A special snap-in extender is available for polypropylene cores.

Process Filtration Division



Wound Depth Series

Specifications

Filtration Ratings:

- 1µm, 3µm, 5µm, 10µm, 20µm and 30µm @ 90% nominal efficiency

Materials of Construction:

- Polypropylene
- Cotton

Recommended Operating Conditions:

Maximum Temperature:

Polypropylene: 200°F (93°C) with tinned steel or stainless steel cores; 120°F (49°C) with polypropylene cores; 180°F (82°C) with glass-filled polypropylene cores

Cotton: 250°F (121°C) with tinned steel or stainless steel cores; 120°F (49°C) with polypropylene cores; 180°F (82°C) with glass-filled polypropylene cores

- Change Out ΔP: 30 psi (2.4 bar)
- Maximum Operating ΔP @ Ambient Temperature: 60 psi (4.1 bar)

Dimensions:

- 1 in ID x 2-1/2 in OD (nominal)
- 10, 20 and 30 in lengths (nominal)

Flow Rate and Pressure Drop Formulas:

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

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

Notes:

- Clean ΔP** is PSI differential at start.
- Viscosity** is centistokes. Use Conversion Tables for other units.
- Flow Factor** is ΔP/GPM at 1 cks for 10 in (or single).
- Length Factors** convert flow or ΔP from 10 in (single length) to required cartridge length.

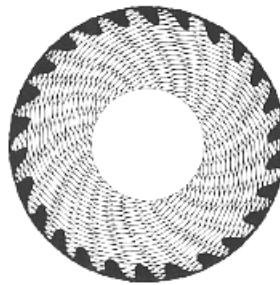
XTL Length Factors

Length (in)	Length Factor
9.75	1.0
10.00	1.0
20.00	2.0
30.00	3.0

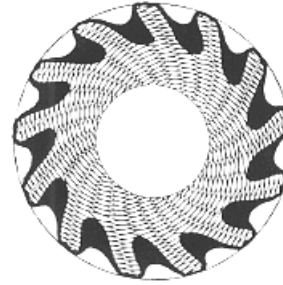
XTL™ Flow Factors (psid/gpm @ 1 cks)

Rating (µm)	Cotton	Polypropylene
1	2.00	0.75
3	0.63	0.33
5	0.36	0.24
10	0.19	0.14
20	0.11	0.09
30	0.09	0.07

Most wound cartridges tend to surface load thus preventing the maximum use of their internal surface area. As a result of a unique design and manufacturing process, the XTL cartridge allows the maximum use of its internal surface area. Shown here are illustrations of typical dirt-loading characteristics of a standard wound cartridge and an XTL cartridge at 15 psi differential.



Brand A @ 15 psid



XTL @ 15 psid

Ordering Information

XTL	10	C	30	A	Y	M	TC	N
Cartridge Code	Micron Rating (nominal) (µm)	Fiber Type	Nominal Length (in)	Core Material	Core Cover Material	End Treatment	End Cap Options	Seal Options
"Extended Life" Wound Cartridge	1 3 5 10 20 30	C = Cotton (FDA) M = Polypropylene (FDA Grade) T = Polypropylene WC = White Cotton	9-4 = 9-3/4 10 = 10 20 = 20 30 = 30	No Symbol = Tinned Steel A = Polypropylene A3 = Glass-Filled Polypropylene G = 304L Stainless Steel S = 316 Stainless Steel	No Symbol = No Cover V = Nonwoven Y = Polypropylene	No Symbol = No Treatment L = Lacquer M = Singed	TC = 222 Closed TF = 222 Fin SC = 226 Closed SF = 226 Fin XA = Poly Extender XC = Tinned Steel Extender GXC = 304L SS Extender SXC = 316 SS Extender None = DOE	N = Buna E = EPR S = Silicone V = Viton** None = DOE

Process Filtration Division

* U.S. Patent No. 4,660,779

** A trademark of E. I. du Pont de Nemours & Co.

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