

Fulflo® XTL™ Filter Cartridges

Technologically advanced wound cartridge design for doubled cartridge life and improved 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.



Contact Information

Parker Hannifin Corporation
Industrial Process Filtration - N.A.
118 Washington Avenue
Mineral Wells, TX 76067

phone +1 940 325 2575
industrialprocess.na@parker.com

www.parker.com/industrialprocess

Benefits

- Offer significant cost savings based on fewer system interruptions, decreased change-out labor expenses, reduced inventory and cartridge disposal costs, and extended cartridge life savings
- Unique computer programming capability permits the design and manufacture of special cartridge constructions to suit requirements of nearly any filtration application
- "M" polypropylene and "C" cotton materials of construction are FDA listed as acceptable for potable and edible liquid contact according to CFR Title 21
- Continuous strand roving geometry provides performance consistency
- A special snap-in extender is available for polypropylene cores
- Extended center cores are available in tinned steel, 316 stainless steel and 304 stainless steel
- Fit all Fulflo vessels and most competitive vessels without compromising final product clarity or flow characteristics of the cartridge
- FDA grade polypropylene (DOE only) certified to ANSI/NSF61 standard for contact with drinking water components
- ISO 9001 registered company

Applications

- Potable Liquids
- Organic Solvents
- Process Water
- Photoprocessing
- Lubricants
- R.O. Pre-filtration
- Amines
- Chemical Process



ENGINEERING YOUR SUCCESS.

Fulflo® XTL™ Filter Cartridges

SPECIFICATIONS

Materials of Construction

Polypropylene
Cotton

Maximum Recommended Operating Conditions

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

Recommended Maximum:

Change Out ΔP: 30psi (2.4bar)

Operating ΔP @ Ambient Temperature:

60psi (4.1bar)

Flow Rate: 5gpm (18.9 lpm) per 10 in. length

Dimensions

1 in. ID x 2 7/16 in. OD (nominal) 10, 20, 30 and 40 in. lengths nominal)

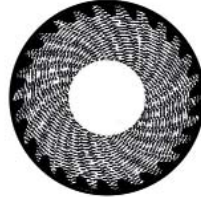
Filtration Ratings

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

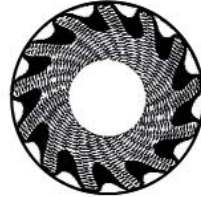
Flow Rate and Pressure Drop Formulas

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

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



Brand A @ 15psid



XTL @ 15psid

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 15psi differential.

Length Factors

Length (in.)	Length Factor
10	1.0
20	2.0
30	3.0
40	4.0
50	5.0

XTL Flow Factors (psid/gpm @ 1cks)

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

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

Description		Micron Rating (Nominal)		Fiber Type		Core Material		End Treatment		End Cap Configuration		Seal Material		Packaging Options	
'Extended Life' Wound Cartridge		Code	Micron	Code	Material	Code	Description	Code	Description	Code	Description	Code	Material		
		1	1.0	C	Cotton (FDA Grade)	None	Tinned Steel	None	No treatment	None	DOE- Double open end (w/o gaskets)	None	Std. DOE		
		3	3.0	M	Polypropylene (FDA grade)	A	Polypropylene	L	Laquer	DO	DOE	A	Polyfoam		
		5	5.0	T	Polypropylene	A3	Glass-filled polypropylene	M	Singed	OB	Std. Open End/ Polypro Spring Closed End	E	EPDM		
		10	10.0	WC	White cotton	G	304 Stainless Steel			TB	222 Open End/ Polypro Spring Closed End	N	Buna-N		
		20	20.0			S	316 Stainless Steel			TC	222 O-ring/Flat	S	Silicone		
		30	30.0							TF	222 O-ring/Fin	V	Viton®		
										TX	222 O-ring/Flex fin			Z	Individual Poly Bag
										SC	226 O-ring/Flat				
										SF	226 O-ring/Fin				
										XA	Polypro/Extender				
										XB	Extended Core Open End/Polypro Spring Closed End				
										XC	Metal extender				

Specifications are subject to change without notification. For User Responsibility Statement, see www.parker.com/safety

© 2017 Parker-Hannifin Corporation
Industrial Process Filtration - North America
All Rights Reserved

Fulflo is a registered trademark of Parker-Hannifin Corporation
Viton is a registered trademark of E.I. DuPont de Nemours & Co., Inc.

