

## Fluorocap®-XL

### Highest-performance all-fluoropolymer capsule for the most aggressive applications

The Fluorocap®-XL encapsulated filter cartridge is setting the new standard for exceptional flow rates and on-stream life. It utilizes a larger diameter cartridge combined with our unique SELECT pleating that increases filtration area by over 70%. This results in increased bath turnover and longer filter lifetime demanded by today's advanced 300mm fabs. The all-fluoropolymer construction provides excellent chemical resistance for the most aggressive applications up to 180°C. Its integral filter design maximizes up-time with safe and simple change-outs. Available wet-packed for quick installation or Ultraclean wet-packed which offers the lowest metals extractables in the industry.

### Benefits

- Extra large filtration area for longer life
- Highest flow rates for maximum bath turn over
- Wet-pack option for quick installation
- Ultraclean option for absolute cleanliness
- All-fluoropolymer for maximum chemical resistance
- 100% integrity tested for consistent quality



### Applications

- Wet etch and clean
  - Hot phosphoric acid
  - Sulfuric acid
  - Hydrofluoric acid
  - Nitric acid
  - Piranha
  - SC1, SC2
  - NMP-based solvents
- Other high temperature or ozonated processes

**Parker Hannifin Corporation** provides our customers with unsurpassed product consistency and cost-efficiency. Our experienced professionals can help you select the right solution for your application. For more information or to place an order, contact your local distributor. Information on product specifications, applications and chemical compatibility can be found on our web site at [www.parker.com](http://www.parker.com) or through your nearest **Parker Hannifin Corporation** office.

**Parker Hannifin Corporation** designs and manufactures an extensive line of innovative solutions for specific applications in the Microelectronics, Biopharmaceutical, Food and Beverage, Industrial and Chemical industries.



ENGINEERING YOUR SUCCESS.

# Fluorocap®-XL

## Specifications

### Materials of Construction

100% Fluoropolymer construction  
All components are thermally bonded to ensure integrity and reduce extractables.

### Effective Filtration Area per 10" (250mm) Cartridge

22.5ft<sup>2</sup> (2.04 m<sup>2</sup>) 0.03µm  
21.5ft<sup>2</sup> (1.99 m<sup>2</sup>) 0.05µm  
18.5ft<sup>2</sup> (1.71 m<sup>2</sup>) 0.10µm

### Metals Extractables\*

Standard: <30ppb (total)  
Ultraclean: <7ppb (total)

\*in a 10% HNO<sub>3</sub> extraction

### Maximum Differential Pressure/ Temperature

Forward: 70psid (4.8bar) @ 75°F (24°C)  
Standard: 50psid (3.4bar) @ 167°F (75°C)  
15psid (1.0bar) @ 300°F (150°C)  
Forward  
HT option: 15psid (1.0bar) @ 356°F (180°C)  
Reverse: 50psid (3.4bar) @ 75°F (24°C)  
15psid (1.0bar) @ 250°F (121°C)

## Performance Attributes

### Water Flow rates, Typical \*

0.03µm 1.2gpm/psid (6.6lpm/100mbar)  
0.05µm 2.7gpm/psid (14.9lpm/100mbar)  
0.10µm 6.5gpm/psid (35.8lpm/100mbar)

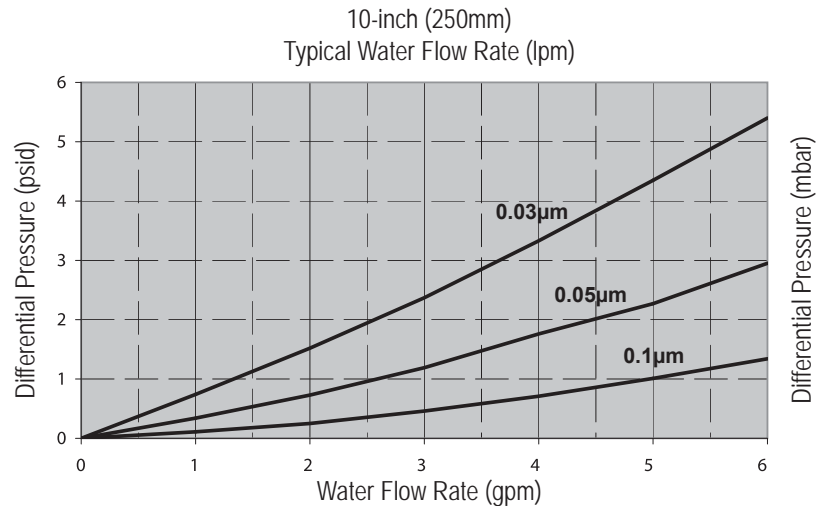
\*Flow rates are for in-line Fluorocaps with 3/4" Parflare fittings.

### Cleanliness (particle shedding)

Wet-packed: <2 particles/ml >0.2µm after 7gal at 1gpm

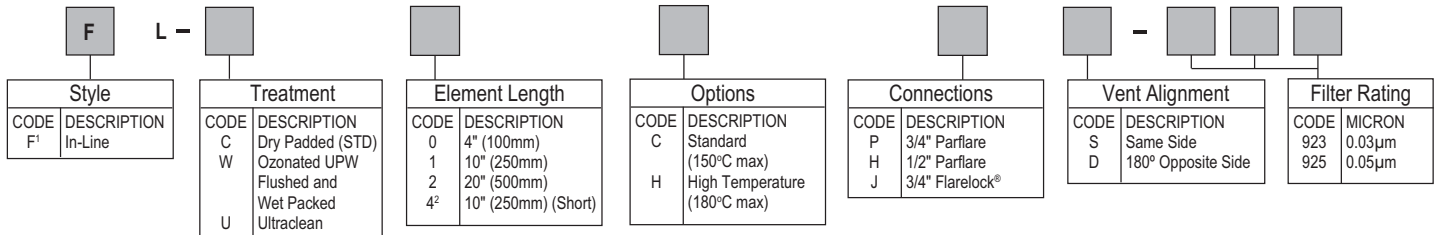
### TOC/Resistivity Rinse-up (wet-packed)

TOC recovery within 3-5ppb of feed after 12gal @ 1gpm. Resistivity recovery within 0.4megohm-cm of feed after 22gal @ 1gpm.



## Ordering Information

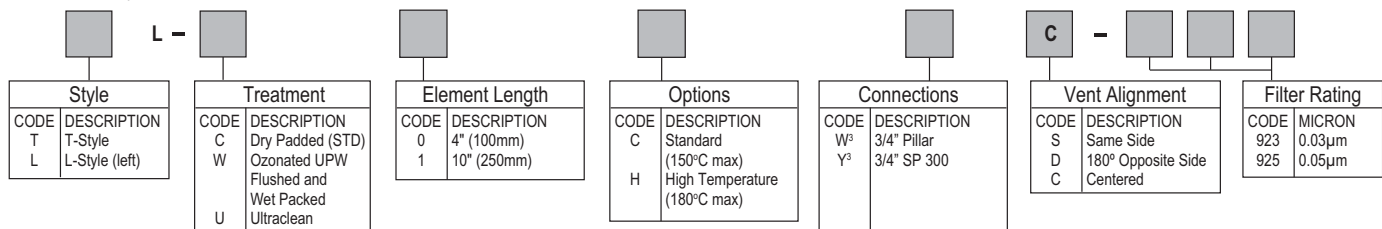
Each capsule is identified with a product number, pore size and lot number for traceability.



<sup>1</sup>F cannot be ordered with W connections.

<sup>2</sup>Inline only.

<sup>3</sup>T and L can only be ordered with W or Y connections.



<sup>1</sup>F cannot be ordered with W connections.

<sup>2</sup>Inline only.

<sup>3</sup>T and L can only be ordered with W or Y connections.

Specifications are subject to change without notification.

© 2008 Parker Hannifin  
Process Advanced Filtration Inc.  
All Rights Reserved  
SPEC-FC-XL Rev C 03/11



FISCHER-ROBERTSON, INC.  
FILTRATION & SEPARATION

(513) 860-3445 | Sales@fischer-robertson.com

ENGINEERING YOUR SUCCESS.