

Fluoroflow®-XL Filter Cartridge

Highest-performance all-fluoropolymer cartridge for aggressive applications

The Fluoroflow®-XL filter cartridge is setting the new standard for exceptional flow rates and on-stream life. It utilizes a larger diameter cartridge (3.25") combined with our unique SELECT pleating technology that increases filtration area and flow rate. This results in increased bath turnover and longer filter lifetime demanded by today's advanced wafer fabs. The all-fluoropolymer construction provides excellent chemical resistance and superior cleanliness 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 ultra-low metal extractables.



Contact Information

Parker-Hannifin Corporation
Bioscience & Water Filtration Division
2340 Eastman Avenue
Oxnard, California, USA 93030

toll free +1 877 784 2234
phone +1 805 604 3400
fax +1 805 604 3401
bioscience.na@parker.com

www.parker.com/bioscience

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 ultra-low metal extractables
- All-fluoropolymer for maximum chemical resistance
- 100% integrity tested for consistent quality

Applications

- Wet etch and clean
 - Hydrofluoric acid
 - SC1, SC2
 - NMP-based solvents
- Aggressive solvent based photoresist cleans
- High-purity chemical and solvent manufacturing
- Other high temperature or ozonated processes



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Fluoroflow®-XL Filter Cartridge

Performance Attributes

SPECIFICATIONS

Materials of Construction

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

Effective Filtration Area per 10" (250mm) Cartridge

22.5ft² (2.04 m²) 0.03µm
21.5ft² (1.99 m²) 0.05µm

Metals Extractables*

Standard: <30ppb (total)

Ultraclean: <7ppb (total)

*In a 10% HNO₃ extraction

Maximum Differential Pressure/Temperature

Forward:

70psid (5.5bar) @ 75°F (24°C)
50psid (3.8bar) @ 167°F (75°C)
30psid (2.0bar) @ 257°F (125°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)

Cleanliness (particle shedding)

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

Dry-packed: <2 particles/ml >0.2µm
after 12gal @ 1gpm

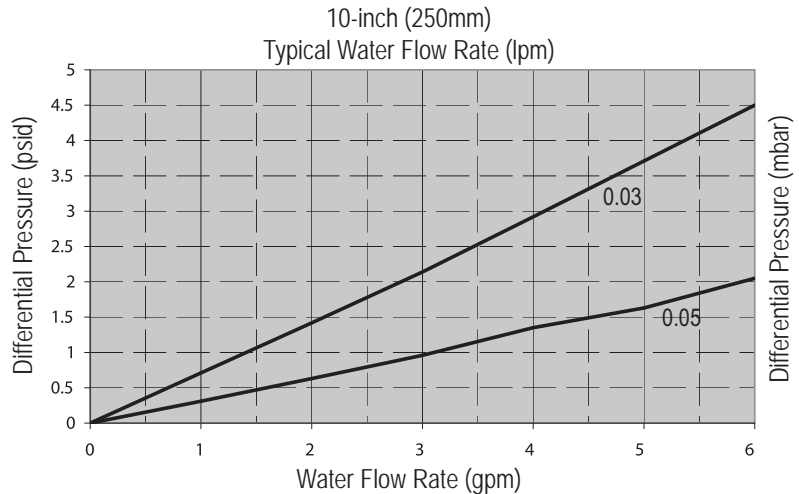
TOC/Resistivity Rinse-up (wet-packed)

TOC recovery within 3-5ppb of feed
without additional rinse-up.

Resistivity recovery within 0.4megohm-cm
of feed after 22gal @ 1gpm.

Water flow rates, Typical*		
Micron	gpm/psid	lpm/100mbar
0.03	1.4	7.7
0.05	3.3	18

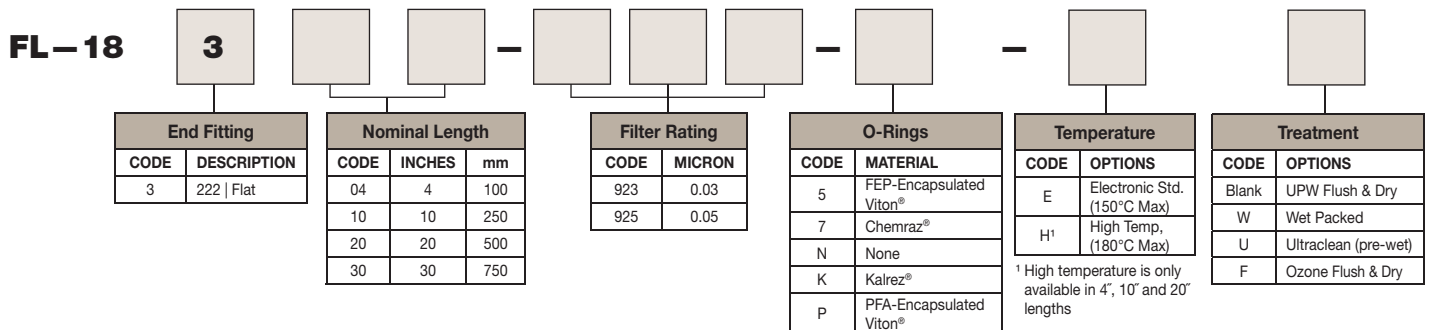
*Per 10" (250mm) cartridge equivalent.



FI-18 Nominal Lengths								
Code	4		10		20		30	
	in.	mm	in.	mm	in.	mm	in.	mm
3	5.4	137.2	9.7	246.4	18.1	459.7	25.3	642.6

Ordering Information

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



Specifications are subject to change without notification.
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WARNING: This product can expose you to chemicals including 1,3-Butadiene which are known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

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