

FLUOROFLOW®-SELECT

All-fluoropolymer, highest flow rate cartridge for applications up to 180°C



In high temperature processes, exceptional flow rates and onstream life can be obtained by using Fluoroflow®-SELECT filter cartridges. The SELECT membrane pleat design (patent pending) results in higher flow rates, longer filter life and less down-time than a standard pleated configuration. The all-fluoropolymer construction offers excellent chemical resistance in aggressive chemical applications.

BENEFITS

- Exceptional flow rates increase bath turnover rates
- · High chemical and thermal resistance
- 100% integrity tested
- Operating temperature 150°C (up to 180°C with HT option)
- · Wet-packed option available for fast installation
- · Higher membrane area for increased filter life

APPLICATIONS

- · Processes using aggressive chemicals and process fluids
- High temperature recirculation baths operating at elevated temperatures
- · Hot phosphoric acid in nitride etching process

SPECIFICATIONS

Materials of construction

100% Fluoropolymer construction

All components are thermally bonded to ensure integrity and reduce extractables.

Effective filtration area

6.0ft² (0.56 m²) 4" (100mm) cartridge 12.2ft² (1.1 m²) 10" (250mm) cartridge

Metals extractables

<20ppb (total) in a 10% HNO3 extraction of 1.5 liters</p>

for 24 hours at ambient temperature

Maximum differential pressure/temperature

Forward	80psid (5.5bar) @ 75°F (24°C) 55psid (3.8bar) @ 167°F (75°C) 30psid (2.0bar) @ 257°F (125°C) 15psid (1.0bar) @ 300°F (150°C)
Forward HT option	100psid (6.8bar) @ 75°F (24°C) 75psid (5.1bar) @ 167°F (75°C) 50psid (3.4bar) @ 257°F (125°C) 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 at 1gal/min Dry-packed <2 particles/ml >0.2µm after 12gal at 1gal/min

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.

Integrity test values

FILTER RATING	BUBBLE POINT*	
μm	psig	bar
0.03	≥ 60	4.1
0.05	≥ 40	2.8
0.10	≥ 21	1.5
0.20	≥ 13	0.9
0.45	≥ 7	0.5
1.00	≥ 3	0.2

*In 60/40 IPA/water @ 25°C

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PERFORMANCE ATTRIBUTES

Water in Flow Rates, Typical *

 0.03μm
 0.85gpm/psid (4.7lpm/100mbar)

 0.05μm
 2.0gpm/psid (11.0lpm/100mbar)

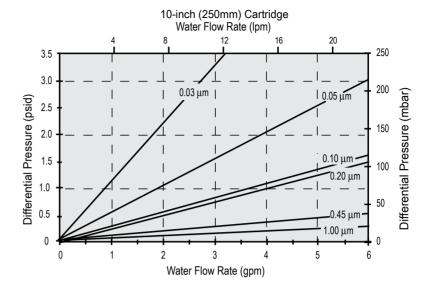
 0.10μm
 4.1gpm/psid (22.6lpm/100mbar)

 0.20μm
 4.6gpm/psid (25.3lpm/100mbar)

 0.45μm
 10.5gpm/psid (57.6lpm/100mbar)

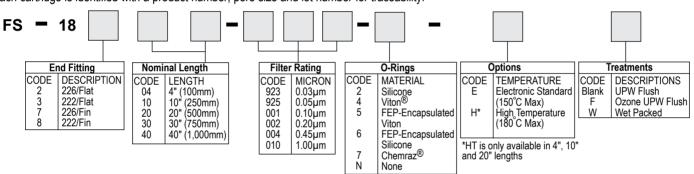
 1.00μm
 16.0gpm/psid (87.8lpm/100mbar)

^{*}Flow rates shown are for FluoroCap filters with 3/4" Flaretek® (in-line) fittings and for fluids with viscosity of 1cP.



ORDERING INFORMATION

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



TECHNICAL SUPPORT AND PRODUCT INFORMATION

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 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.

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