

Fluoroflow®-XF

Highest-flowing all-fluoropolymer cartridge for the most aggressive applications

The Fluoroflow®-XF filter cartridge uses a superior asymmetric PTFE membrane that provides unmatched flow rates and on-stream life. Customers using the cartridge for viscous fluids like phosphoric acid, have reported flow rates and lifetimes more than twice that of the leading competitor. The advantages of increased bath turnover and longer lifetime improve yields while decreasing filtration costs. In addition, the all-fluoropolymer construction provides excellent chemical resistance for the most aggressive applications up to 180°C. Available dry, wet-packed for quick installation or Ultraclean wet-packed which offers the lowest metals extractables in the industry.



Benefits

- Highest flow rates in the industry
- Longest lifetime
- 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.

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.

Fluoroflow®-XF

Specifications

Materials of Construction

Asymmetric PTFE membrane
All-fluoropolymer support and structure

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

Effective Filtration Area

SELECT 11.4 ft² (1.03m²) per nominal 10" (250mm) cartridge

Standard 6.8 ft² (0.61m²) per nominal 10" (250mm) cartridge

Metals Extractables*

Standard: <20ppb (total)

Ultraclean: <5ppb (total)

*in a 10% HNO₃ extraction

Maximum Differential Pressure/ Temperature

Forward

SELECT 80psid (5.5bar) @ 75°F (24°C)

Standard 60psid (4.1bar) @ 75°F (24°C)

HT option 15psid (1.0bar) @ 356°F (180°C)

Reverse

SELECT 50psid (3.4bar) @ 75°F (24°C)

Standard 40psid (2.8bar) @ 75°F (24°C)

HT option 15psid (1.0bar) @ 250°F (121°C)

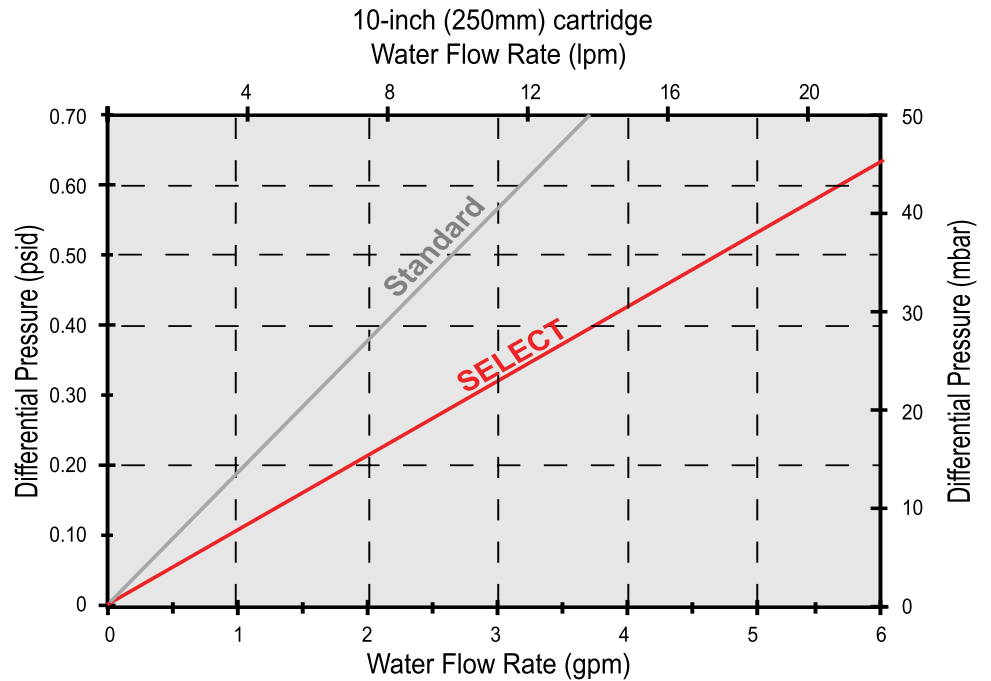
Performance Attributes

Water Flow rates, Typical *

SELECT 9.5gpm/psid (52.2lpm/100mbar)

Standard 5.7gpm/psid (31.3lpm/100mbar)

*Per 10" (250mm) cartridge equivalent



Cleanliness (particle shedding)

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

Data is from open bag and installed, no additional installation flushing.

TOC/Resistivity Rinse-up (wet-packed)

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

Resistivity recovery within 0.2 megohm-cm of feed after 12gal @ 1gpm.

Ordering Information

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

Pleat Technology		End Fitting		Nominal Length		Filter Rating		O-Rings		Options		Treatment	
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	LENGTH	CODE	MICRON	CODE	MATERIAL	CODE	TEMPERATURE	CODE	DESCRIPTION
FS-18	SELECT	2	226/Flat	04	4" (100mm)	031	0.10µm XF	2	Silicone	E	Electronic Standard (150°C Max)	Blank	Dry Packed (STD)
33-14	Standard	3	222/Flat	10	10" (250mm)			4	Viton®	H	High Temperature (180°C Max)	W	Wet Packed
		7	226/Fin	20	20" (500mm)			5	FEP-Encapsulated Viton			U	Ultraclean (pre-wet)
		8	222/Fin	30*	30" (750mm)			6	FEP-Encapsulated Silicone			F	Ozone Flush and dried
								7	Chemraz®				
								N	None				
								K	Kalrez				

*HT is not available in 30" length

