

Fluoroflow[®]-XF Filter Cartridge

High-flow all-fluoropolymer cartridge for aggressive and ultra-high purity chemical applications

The Fluoroflow[®]-XF filter cartridge uses a superior high-flux asymmetric PTFE membrane which 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 benefits of increased bath turnover and longer life are improved process performance and lower filtration costs. In addition, the all-fluoropolymer construction provides excellent chemical resistance for the most aggressive applications up to 150 °C. Available dry, or wet-packed for quick installation. Our Ultraclean wet-packed option offers the lowest metals extractables in the industry.



Contact Information

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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
 - Hydrochloric acid
 - Hydrofluoric acid
 - Piranha/SPM
 - SC1, SC2
 - NMP-based solvents
 - Aggressive solvent based resist strip chemistries
- Other high temperature or ozonated processes
- Silicone wafer manufacturing
 - Trichlorosilane (liquid or vapor)
- High-purity chemical manufacturing
- High-purity chemical distribution

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SPECIFICATIONS

Materials of Construction

Asymmetric PTFE membrane

All-fluoropolymer support & structure

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

Effective Filtration Area

SELECT (0.05):

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

SELECT (0.1):

11.0 ft² (1.02m²) per nominal
10" (250mm) cartridge

Standard (0.1):

7.0 ft² (0.65m²) 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 - 5psid (1.0bar) @ 250°F (121°C)

Cleanliness (particle shedding)

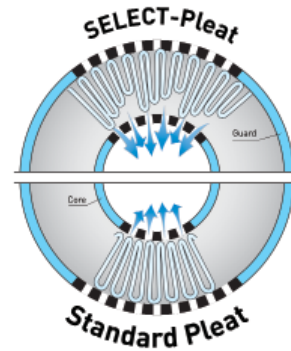
Wet-packed: <2 particles/ml >0.2µm
after 7gal @ 1gpm

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.

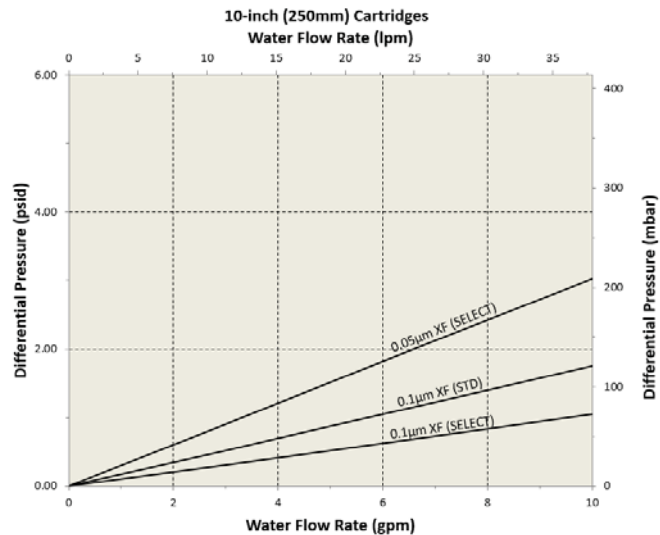


SELECT pleating provides an optimized effective filtration area, dramatically increasing flow rates compared to products with standard pleat format.

Performance Attributes

Filter	Typical Water Flow Rate*	
	gpm/psid	lpm/100mbar
0.05 XF SELECT	3.3	18
0.1 XF Standard	5.7	31
0.1 XF SELECT	9.5	52

*Per 10" (250mm) cartridge equivalent.



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

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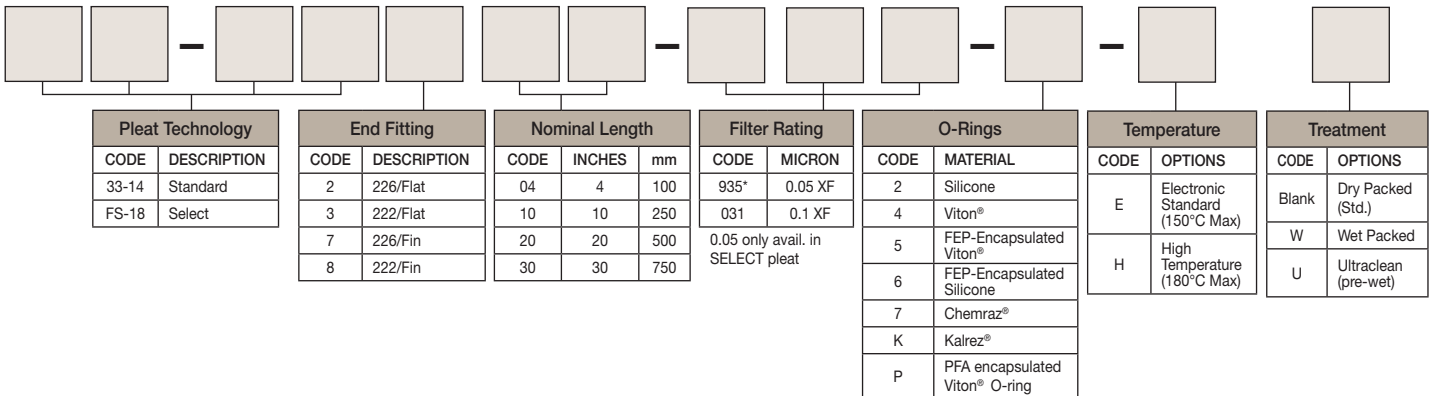
33-14 Standard Pleat Nominal Lengths								
Code	4		10		20		30	
	in.	mm	in.	mm	in.	mm	in.	mm
3	5.6	142	10.0	254	18.8	478	27.6	701
8	7.6	193	12	305	20.8	528	29.5	749

FS-18 Select Pleat Nominal Lengths								
Code	4		10		20		30	
	in.	mm	in.	mm	in.	mm	in.	mm
3	5.5	140	9.9	251	18.7	475	27.5	699
8	7.5	191	11.9	302	20.6	523	29.4	747

Note: For other code lengths, please consult your local Parker domnick hunter representative.

Ordering Information

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



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DS_ME_Fluoroflow-XF Rev. D

