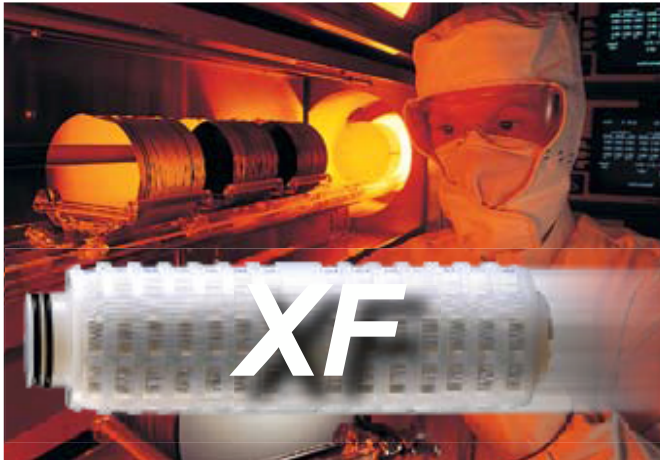


# CHEMFLOW® XF

XF: the ultimate in flow rates and throughput



XF is a revolutionary membrane technology from Parker Advanced Filtration. It provides superior flow over a traditional cartridge by utilizing an asymmetric PTFE membrane. Combined with the SELECT pleating technology, XF cartridges offer over three times the flow rate and throughput of standard cartridges - at lower differential pressure.

Chemflow XF with SELECT Pleating technology contains over 11.0ft<sup>2</sup> of PTFE membrane with components made from High Density Polyethylene (HDPE). The XF membrane combined with the HDPE supports leads to exceptional performance when filtering ultra-high purity chemicals (UHP). They are recommended for highly viscous liquid filtration and high-turnover recirculation baths at temperatures <60°C.

## BENEFITS

- Superior liquid flow rates
- Lower differential pressure with improved retention
- HDPE support and structure ensures a high degree of cleanliness
- Increased product yields
- Minimized defect rates

## APPLICATIONS

- Semiconductor and wafer manufacture
  - Highly viscous liquid filtration at temperatures < 60°C
  - High turnover bath applications at temperatures < 60°C
- Bulk chemical delivery

## SPECIFICATIONS

### Materials of construction

Membrane	PTFE (Asymmetric)
Support layers	HDPE
Structure	HDPE

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

### Effective filtration area

SELECT	11.0 ft <sup>2</sup> (0.99m <sup>2</sup> ) per nominal 10" (250mm) cartridge
Standard	5.7 ft <sup>2</sup> (0.51m <sup>2</sup> ) per nominal 10" (250mm) cartridge

### Metals extractables

<70ppb	in a 10% HNO <sub>3</sub> extraction of 1.5 liters for 24 hours at ambient temperature
Retention Efficiency	99.9% at 0.138µm; 99% at 0.093µm

### Maximum differential pressure/temperature

Forward	55psi (4.1bar) @ 75°F (24°C)
Reverse	30psi (2.8bar) @ 75°F (24°C)

### Cleanliness (particle shedding)

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

### 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

### Integrity test values

FILTER RATING	BUBBLE POINT*		
	µm	psig	bar
0.10	>22	≥1.50	

\*In 60/40 IPA/water @ 25°C

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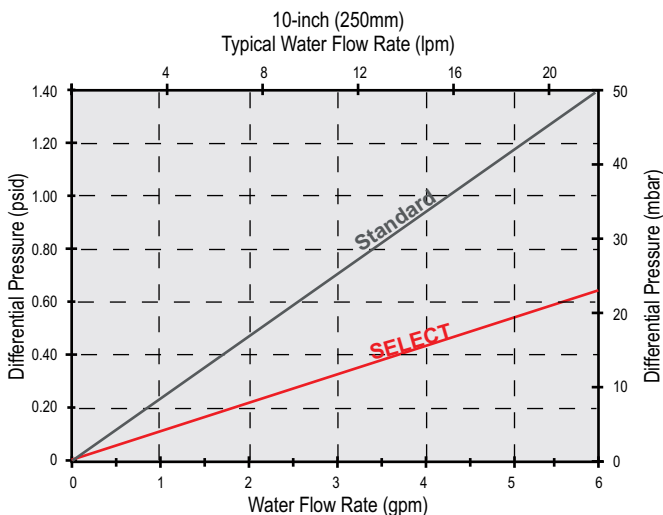
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## PERFORMANCE ATTRIBUTES

### Water in Flow Rates, Typical \*

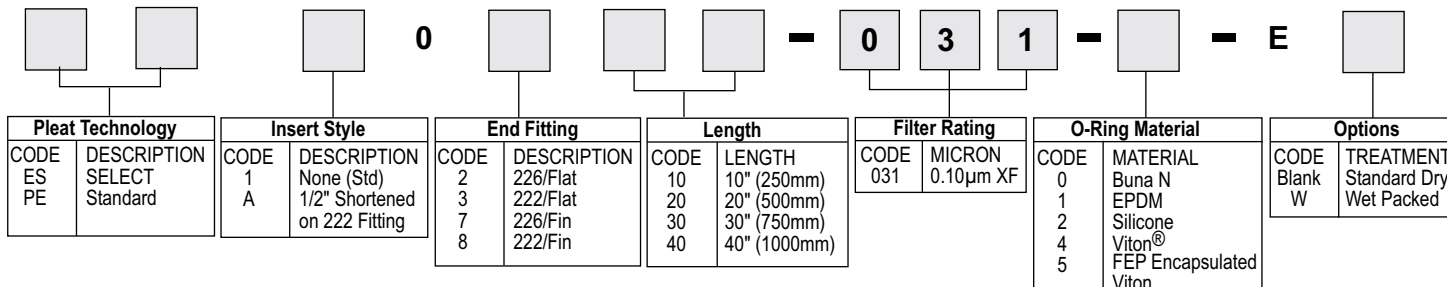
SELECT 7.9gpm/psid (52.0lpm/100mbar)  
Standard 4.3gpm/psid (30.3lpm/100mbar)

\* Per 10-inch (250 mm) cartridge equivalent 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](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.

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