

Chemflow®-XF Filter Cartridge

Highest-flowing cartridge for bulk and lower temperature chemical applications

The Chemflow®-XF filter cartridge uses a superior asymmetric PTFE membrane which provides unmatched flow rates and on-stream life. It is constructed with HDPE supports providing an economical alternative to all-fluoropolymer cartridges while still maintaining a high degree of retention and cleanliness. This filter is ideally suited for bulk chemical delivery and lower temperature wet processes (<60°C). Customers using the cartridge for viscous fluids like phosphoric acid, have reported flow rates and lifetimes more than twice that of the leading competitor. These advantages help improve yields while decreasing overall filtration costs. In bulk delivery applications, the high flow allows for reduced system sizing and associated savings. It is available dry or wet-packed for quick installation.



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Benefits

- Highest flow rates in the industry
- Long lifetime
- Wet-pack option for quick installation
- PTFE/HDPE construction for chemical resistance
- 100% integrity tested in cleanroom environment

Applications

- Bulk chemical delivery
 - Acids, bases, solvents, photochemicals
- Wet etch and clean (< 60°C)
 - Phosphoric acid
 - Hydrofluoric acid
 - Nitric acid
 - SC1, SC2
 - Solvents



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Chemflow®-XF Filter Cartridge

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:

11.0ft² (0.99m²) per nominal 10" (250mm) cartridge

Standard:

5.7ft² (0.51m²) per nominal 10" (250mm) cartridge

Metals Extractables*

Standard: <70ppb (total)

*In a 10% HNO₃ extraction

Maximum Differential

Pressure/Temperature

Forward: 55psid (4.1bar) @ 75°F (24°C)

Reverse: 30psid (2.8bar) @ 75°F (24°C)

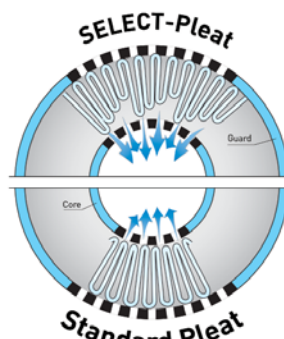
Cleanliness (particle shedding)

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

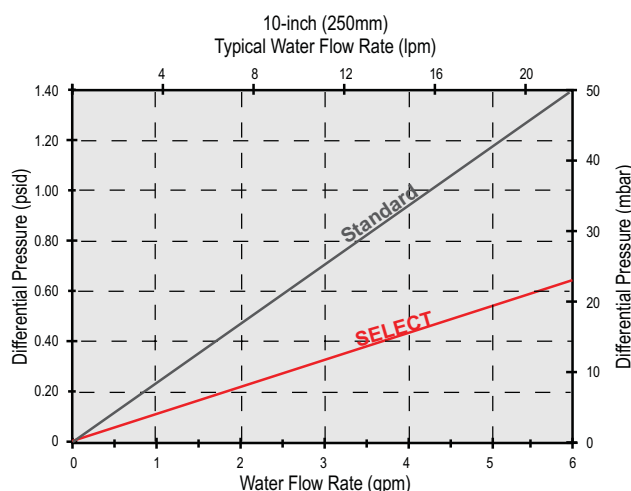


SELECT pleating provides an optimized effective filtration area, dramatically increasing flow rates compared to products with standard pleat format.

Performance Attributes

Water flow rates, Typical*		
Type	gpm/psid	lpm/100mbar
SELECT	7.9	52
Standard	4.3	31

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



Ordering Information

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

Pleat Technology		Styles		End Fitting		Length			Filter Rating		O-Ring Material		Treatment	
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	INCHES	mm	CODE	MICRON	CODE	MATERIAL	CODE	OPTIONS
ES	SELECT	1	None (Std.)	2	226 Flat	10	10"	250	031	0.1 (XF)	0	Buna-N	Blank	Standard
PE	Standard	A	½" Shortened on 222 Fitting	3	222 Flat	20	20"	500			1	EPDM	W	Wet Packed
				7	226 Fin	30	30"	750			2	Silicone		
				8	222 Fin	40	40"	1000			4	Viton®		
											5¹	FEP Encapsulated Viton®		
											6¹	FEP Encapsulated Silicone		

¹ O-Rings only

Specifications are subject to change without notification.
For User Responsibility Statement, see www.parker.com/safety
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Cuno is a registered trademark of Cuno Inc.

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DS_ME_Chemflow-XF Rev. D



WARNING: This product can expose you to chemicals including Tetrafluoroethylene which are known to the state of California to cause cancer. For more information go to www.P65Warnings.ca.gov

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