

Chemflow®-XF

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.



Contact Information

Parker-Hannifin Corporation
domnick hunter
Process Filtration - N.A.
2340 Eastman Avenue
Oxnard, California, USA 93030

toll free +1 877 784 2234
phone +1 805 604 3400
fax +1 805 604 3401
dhpsales.na@parker.com

www.parker.com/processfiltration

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

Chemflow®-XF

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.

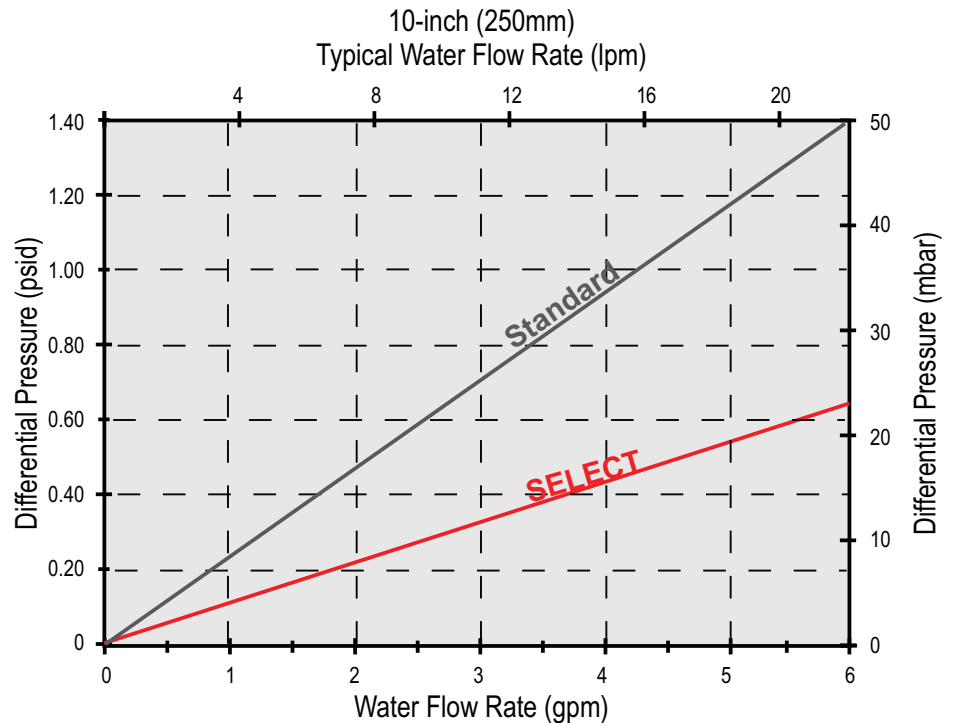
Resistivity recovery within 0.2 megohm-cm of feed after 12gal @ 1gpm.

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.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-------------|--------|-------------------------------|-------------|-------------|--------|--------|------|---------------|----------|-----------------|-------------------------|-----------|------------|--|---|--|---|--|--|--|---|--|---|--|--|--|
| | | | | 0 | | | | | | - | | 0 | | 3 | | 1 | | - | | | | - | | E | | | |
| 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 | 1/2" 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® | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 5 | FEP-Encapsulated Viton® | | | | | | | | | | | | | | | |

Specifications are subject to change without notification.
For User Responsibility Statement, see www.parker.com/safety
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DS_ME_Chemflow-XF Rev. A



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