



Chemflow[®]-PE

Chemically-resistant cartridge for bulk and lower temperature applications

The Chemflow[®]-PE filter cartridge uses a PTFE membrane along with HDPE supports that provide an economical alternative to all-fluoropolymer cartridges. It provides a high degree of retention and cleanliness along with good flow and lifetime. This filter is ideally suited for bulk chemical delivery and lower temperature wet processes (<60°C). It is available dry or wet-packed for quick installation.



Benefits

- Good flow rates
- 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

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.

Chemflow®-PE

Specifications

Materials of Construction

Membrane : PTFE
 Support Layers : HDPE
 Structure : HDPE

Effective Filtration Area

8.3ft² (0.78m²) per 10" (250mm) cartridge

Metals Extractables*

Standard: <55ppb (total)

*in a 10% HNO₃ extraction

Maximum Differential Pressure/ Temperature

Forward: 80psid (5.5bar) @ 75°F (24°C)

Reverse: 50psid (3.4bar) @ 75°F (24°C)

Maximum Operating Temperature

140°F (60°C)

Cleanliness (particle shedding)

Wet-packed: <1 particles/ml >0.2µm after 5gal at 1gpm

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

TOC/Resistivity Rinse-up (wet-packed)

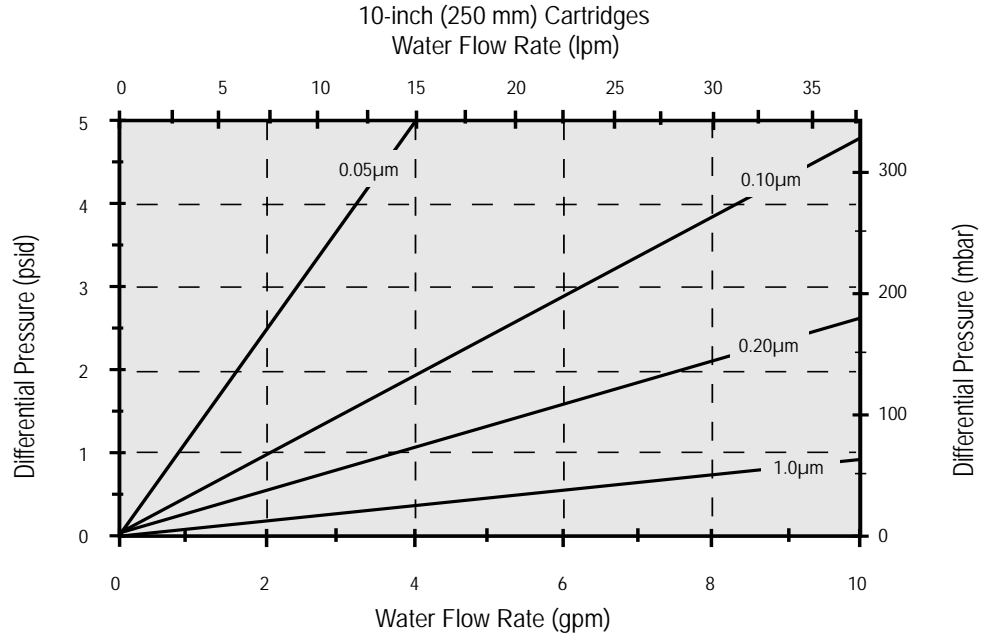
TOC rinse-up to background plus 5ppb of feed after 70gal @ 1gpm. Resistivity rinse-up to background minus 0.2 megohm-cm of feed after 60gal @ 1gpm.

Performance Attributes

Water Flow rates, Typical *

0.05µm 0.8gpm/psid (4.39lpm/100mbar)
 0.10µm 2.1gpm/psid (11.53lpm/100mbar)
 0.20µm 3.8gpm/psid (20.86lpm/100mbar)
 1.0µm 10gpm/psid (55.0lpm/100bar)

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



Ordering Information

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

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| Insert Style | | End Fitting | | Length | | Filter Rating | | O-Ring Material | | Options | |
|--------------|-------------------------------|-------------|-------------|--------|--------------|---------------|--------|-----------------|------------------------|---------|------------|
| CODE | DESCRIPTION | CODE | DESCRIPTION | CODE | LENGTH | CODE | MICRON | CODE | MATERIAL | CODE | TREATMENT |
| 1 | None (Std) | 2 | 226/Flat | 10 | 10" (250mm) | 925 | 0.05µm | 0 | Buna N | Blank | Standard |
| A | 1/2" Shortened on 222 Fitting | 3 | 222/Flat | 20 | 20" (500mm) | 001 | 0.10µm | 1 | EPDM | W | Wet Packed |
| | | 7 | 226/Fin | 30 | 30" (750mm) | 002 | 0.20µm | 2 | Silicone | | |
| | | 8 | 222/Fin | 40 | 40" (1000mm) | 010 | 1.00µm | 4 | Viton® | | |
| | | | | | | | | 5 | FEP Encapsulated Viton | | |



FLOW TECH CORPORATION

(Toll Free) 877.375.1290
 7601 Stadium Drive Kalamazoo, MI 49009
www.flowtechfilters.com