Fluoroflow[®]-Select

High performance all-fluoropolymer cartridge for aggressive applications

The Fluoroflow®-SELECT filter cartridge provides exceptional flow rates and on-stream life. It utilizes our unique SELECT pleating technology that increases filtration area and flow rate by over 70% versus our standard Fluoroflow[®]. This results in increased bath turnover and longer filter lifetime demanded by today's fabs. The all-fluoropolymer construction provides excellent chemical resistance for the most aggressive applications up to 180°C. Available wet-packed for guick installation or Ultraclean wetpacked which offers the lowest metals extractables in the industry.



Contact Information

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Benefits

- Large filtration area for longer life
- High flow rates for increased bath turn over
- Wet-pack option for quick installation
- Ultraclean wet-pack option for absolute cleanliness
- All-fluoropolymer for maximum chemical resistance
- 100% integrity tested for consistent quality

Applications

- Wet etch and clean
 - Phosphoric acid
 - Sulfuric acid
 - Hydrofluoric acid
 - Nitric acid
 - Piranha
 - SC1,SC2
 - NMP-based solvents
- Other high temperature or ozonated processes

Fluoroflow[®]-Select

SPECIFICATIONS

Materials of Construction

100% Fluoropolymer construction All components are thermally bonded to ensure integrity and reduce extractables.

Effective Filtration Area

Metals Extractables*

Standard: <20ppb (total) Ultraclean: <5ppb (total) *In a 10% HNO₃ extraction

Maximum Differential

Pressure/Temperature Forward: 80psid (5.5bar) @ 75°F (24°C) 55psid (3.8bar) @ 167°F (75°C) 30psid (2.0bar) @ 257°F (125°C) 15psid (1.0bar) @ 300°F (150°C)

Forward HT option:

100psid (6.8bar) @ 75°F (24°C) 75psid (5.1bar) @ 167°F (75°C) 50psid (3.4bar) @ 257°F (125°C) 15psid (1.0bar) @ 356°F (180°C)

<u>Reverse:</u> 50psid (3.4bar) @ 75°F (24°C) 15psid (1.0bar) @ 250°F (121°C)

Cleanliness (particle shedding)

Wet-packed:<2 particles/ml >0.2µm
after 7gal @ 1gal/minDry-packed:<2 particles/ml >0.2µm
after 12gal @ 1gal/min

TOC/Resistivity Rinse-up (wet-packed) TOC recovery within 3-5ppb of feed without additional rinse-up.

Resistivity recovery within 0.4megohm-cm of feed after 22gal @ 1gpm.

Ordering Information

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

| FS — | 18 | | | | - | - | | | | _ | | - [| | | |
|------|-------------|---------------------------------------|----------------|--------|------|---|------|---------------|--|---------|----------------------------|---------------|--|-----------|-----------------|
| | End Fitting | | Nominal Length | | | | Fil | Filter Rating | | O-Rings | | Temperature | | Treatment | |
| | CODE | DESCRIPTION | CODE | INCHES | mm |] | CODE | MICRON | | CODE | MATERIAL | CODE | OPTIONS | CODE | OPTIONS |
| | 2 | 226 Flat | 04 | 4″ | 100 |] | 923 | 0.03 | | 2 | Silicone | _ | Electronic | Blank | UPW Flush |
| | 3 | 222 Flat | 10 | 10″ | 250 | | 925 | 0.05 | | 4 | Viton® | E | Standard (150°C Max) | Dianic | and dried |
| | 7 | 226 Fin | 20 | 20″ | 500 |] | 001 | 0.1 | | 5 | FEP-Encapsulated Viton® | | High | F | Ozone UPW |
| | 8 | 222 Fin | 30 | 30″ | 750 | 1 | 002 | 0.2 | | | FEP-Encapsulated | H* | Temperature | | Flush and dried |
| | | · · · · · · · · · · · · · · · · · · · | 40 | 40″ | 1000 | 1 | 004 | 0.45 | | 6 | Silicone | | (180°C Max) | W | Wet Packed |
| | | | | | |] | 010 | 1.0 | | 7 | Chemraz® | | perature is available 10" and 20" lengths | υ | Ultraclean |
| | | | | | | | | | | N | None | 0111y 111 4 , | TO AND 20 PENGUIS | | (pre-wet) |
| | | | | | | | | | | К | Kalrez® | | | | |

Specifications are subject to change without notification.

For User Responsibility Statement, see www.parker.com/safety

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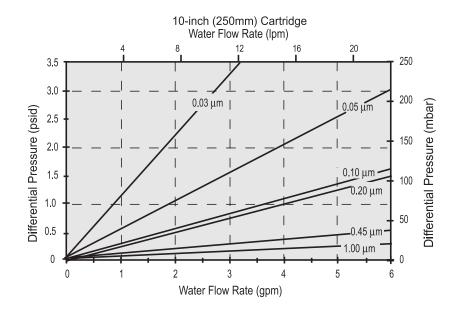
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Performance Attributes

| Water flow rates, Typical* | | | | | | | | |
|----------------------------|----------|-------------|--|--|--|--|--|--|
| Micron | gpm/psid | lpm/100mbar | | | | | | |
| 0.03 | 0.85 | 4.7 | | | | | | |
| 0.05 | 2.0 | 11 | | | | | | |
| 0.1 | 4.1 | 23 | | | | | | |
| 0.2 | 4.6 | 25 | | | | | | |
| 0.45 | 10.5 | 58 | | | | | | |
| 1.0 | 16.0 | 88 | | | | | | |

*Per 10" (250mm) cartridge equivalent.



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DS_ME_Fluoroflow Select Rev. A

ENGINEERING YOUR SUCCESS.