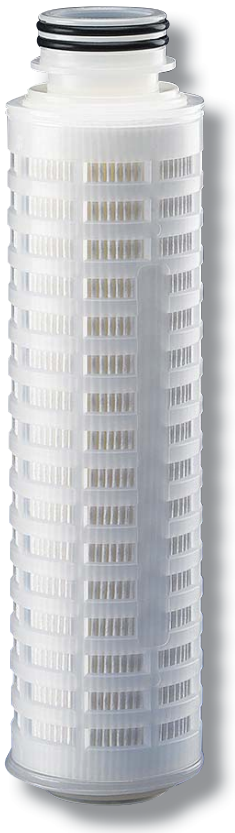
Proflow™ II-E

Chemically-resistant cartridge for ultrapure microelectronics fluids and gases

The Proflow™II-E filter cartridge uses a PTFE membrane along with high-purity polypropylene 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 ultrapure microelectronics fluids and gases. The hydrophobic PTFE membrane serves as a highly efficient barrier to insure low moisture content of gases. It is available dry or wet-packed for quick installation and lower extractables.



Contact Information

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Benefits

- Good liquid and gas flow rates
- Wet-pack option for quick installation
- PTFE/ PP construction for chemical resistance
- Wide variety of configurations and ratings
- 100% integrity tested in cleanroom environment

Applications

- Bulk chemical delivery
  – Acids, bases, solvents, photochemicals
- Wet etch and clean
  – Dilute acids
  – DI water (<80°C)
- Ultrapure electronics-grade gases

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Proflow™ II-E

SPECIFICATIONS

Materials of Construction

Membrane: PTFE
Support layers: Polypropylene
Structure: Polypropylene
All components are thermally bonded to ensure integrity and reduce extractables.

Effective Filtration Area

4.6ft² (0.43 m²) 5″ (130mm) cartridges
9.3ft² (0.86 m²) 10″ (250mm) cartridges

Maximum Differential Pressure/Temperature

Forward: 80psid (5.5bar) @ 75ºF (24ºC)
40psid (2.8bar) @ 180ºF (82ºC)

Reverse: 50psid (3.4bar) @ 75ºF (24ºC)

Cleanliness (particle shedding)

Wet-packed: <1 particles/ml >0.2µm after 6gal @ 1gpm
Data as from open bag and installed, no additional installation flushing.

TOC/Resistivity Rinse-up (wet-packed)

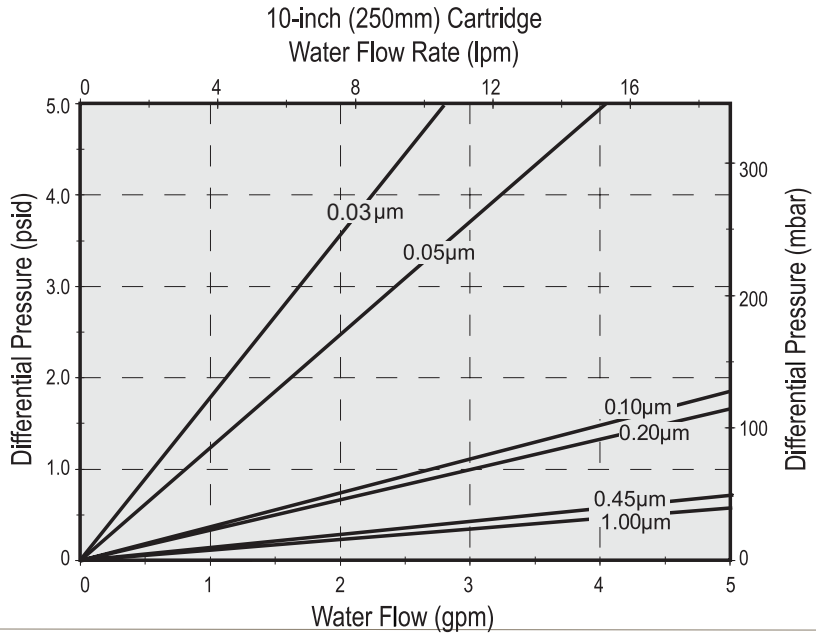
TOC rinse-up to background plus 5ppb of feed after 70gal @ 1gpm.

Resistivity rinse-up to background minus 0.2megohm-cm of feed after 30gal @ 1gpm.

Performance Attributes

Water flow rates, Typical*		
Micron	**gpm/psid**	**lpm/100mbar**
0.03	0.6	3.31
0.05	0.8	4.39
0.1	1.7	9.33
0.2	3.2	18
0.45	7.6	42
1.0	9.1	50

* 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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Application	
CODE	**TREATMENT**
4	Standard
6	Extended flushed with 18 Megohm DI Water

Styles	
CODE	**DESCRIPTION**
1	No Insert
5	(Standard) Encapsulated
6	Stainless Steel Encapsulated Polysulfone
A	½″ Shortened on 222 Fitting

End Fitting	
CODE	**DESCRIPTION**
0	DOE (Cuno®)
1	DOE
2	226 | Flat
3	222 | Flat
6	020 | Internal | Flat
7	226 | Fin
8	222 | Fin
G	120 | Internal | Recessed Endcap
H	213 | Recessed Endcap (Ametek)
R	222 | Recessed Endcap

Nominal Length		
CODE	**INCHES**	**mm**
05	5″	130
10	10″	250
20	20″	500
30	30″	750
40	40″	1000

Filter Rating	
CODE	**MICRON**
923	0.03
925	0.05
001	0.1
002	0.2
004	0.45
010	1.0

Gasket/O-Rings	
CODE	**MATERIAL**
0	Buna-N
1	EPDM
2	Silicone
4	Viton®
5*	FEP-Encapsulated Viton®
6*	FEP-Encapsulated Silicone
N	None

*O-Rings only

Gaskets		
CODE	**THICKNESS**	
	INCHES	**mm**
1	0.200″	5
2	0.125″	3
4	(1) 0.200″	5
	(1) 0.125″	3
N	No Gasket	

Treatment	
CODE	**OPTIONS**
Blank	Standard
W	Wet-packed

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