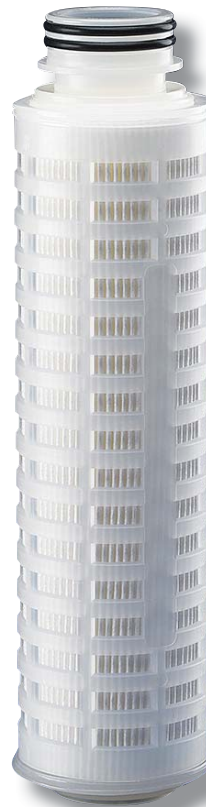


# Proflow™ II-E

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



ENGINEERING YOUR SUCCESS.

# 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

4.6ft<sup>2</sup> (0.43 m<sup>2</sup>) 5" (130mm) cartridges  
 9.3ft<sup>2</sup> (0.86 m<sup>2</sup>) 10" (250mm) cartridges

### Maximum Differential Pressure/Temperature

Forward: 80psid (5.5bar) @ 75°F (24°C)  
 40psid (2.8bar) @ 180°F (82°C)  
 Reverse: 50psid (3.4bar) @ 75°F (24°C)

### 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)

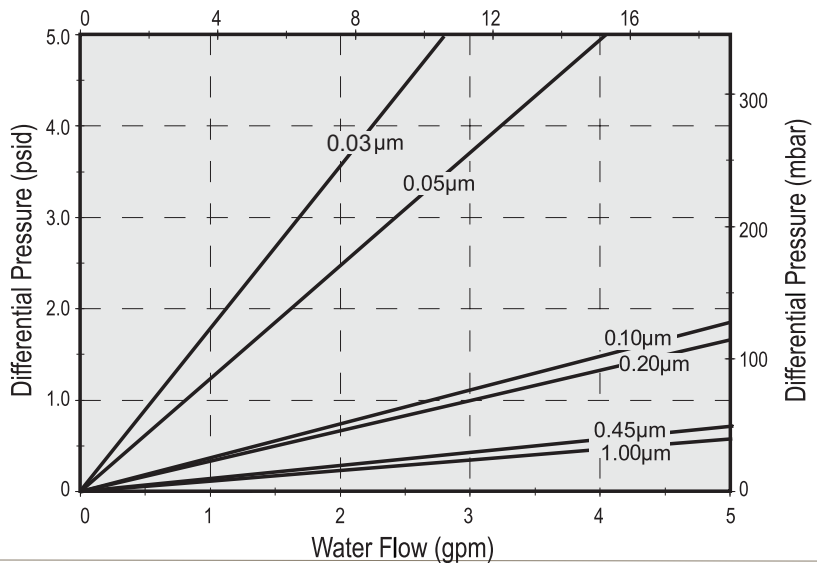
TOC rinse-up to background plus 5ppb of feed after 70gal @ 1gpm.  
 Resistivity rinse-up to background minus 0.2megohm-cm of feed after 30gal @ 1gpm.

## 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

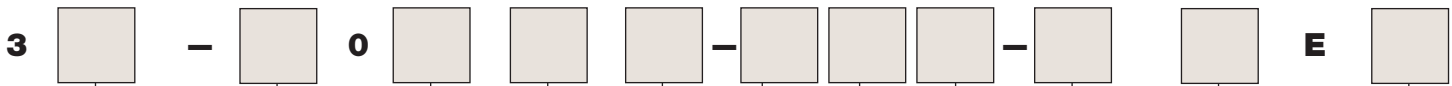
\* Per 10-inch (250mm) cartridge equivalent.

10-inch (250mm) Cartridge  
 Water Flow Rate (lpm)



## Ordering Information

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



Application		Styles		End Fitting		Nominal Length			Filter Rating		Gasket/O-Rings		Gaskets			Treatment	
CODE	TREATMENT	CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	INCHES	mm	CODE	MICRON	CODE	MATERIAL	CODE	THICKNESS		CODE	OPTIONS
														INCHES	mm		
4	Standard	1	No Insert	0	DOE (Cuno®)	05	5"	130	923	0.03	0	Buna-N	1	0.200"	5	Blank	Standard
6	Extended flushed with 18 Megohm DI Water	5	(Standard) Encapsulated	1	DOE	10	10"	250	925	0.05	1	EPDM	2	0.125"	3	W	Wet-packed
		6	Stainless Steel Encapsulated Polysulfone	2	226   Flat	20	20"	500	001	0.1	2	Silicone	4	(1) 0.200"	5		
		3	222   Flat	3	222   Flat	30	30"	750	002	0.2	4	Viton®	4	(1) 0.125"	3		
		6	020   Internal   Flat	6	020   Internal   Flat	40	40"	1000	004	0.45	5*	FEP-Encapsulated Viton®	N	No Gasket			
		7	226   Fin	7	226   Fin				004	0.45	6*	FEP-Encapsulated Silicone					
		8	222   Fin	8	222   Fin				010	1.0	N	None					
		A	½" Shortened on 222 Fitting	G	120   Internal   Recessed Endcap												
				H	213   Recessed Endcap (Ametek)												
				R	222   Recessed Endcap												

\*O-Rings only

Specifications are subject to change without notification.  
 For User Responsibility Statement, see [www.parker.com/safety](http://www.parker.com/safety)  
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 Cuno is a registered trademark of 3M Company.

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