

Proflow™ II-E Mini-Capsules

Small-volume capsule for ultrapure microelectronics fluids and gases

The Proflow™ II-E mini-capsule 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.

Fast and easy change-outs are assured with the encapsulated design. Three sizes are available to match the application and minimize hold-up volume.



Contact Information

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Benefits

- Good liquid and gas flow rates
- PTFE/ PP construction for chemical resistance
- Fast and easy change-out
- Three capsule sizes
- 100% integrity tested

Applications

- Wet etch and clean
 - Dilute acids
 - DI water (<80°C)
- Ultrapure electronics-grade gases
- Small-volume lab systems



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Proflow™ II-E Mini-Capsules

SPECIFICATIONS

Materials of Construction

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

Effective Filtration Area

H = Half-size 1.1ft² (0.10m²) per 4.82" (122mm) capsule
 S = Std. size 2.2ft² (0.21m²) per 6.38" (162mm) capsule
 D = Double-size 3.1ft² (0.29m²) per 7.92" (201mm) capsule

Maximum Differential Pressure/Temperature

Forward: 70psid (4.8bar) @ 75°F (24°C)
 35psid (2.4bar) @ 140°F (60°C)
 20psid (1.4bar) @ 167°F (75°C)

Reverse: 30psid (2.1bar) @ 75°F (24°C)

Resistivity Rinse-up

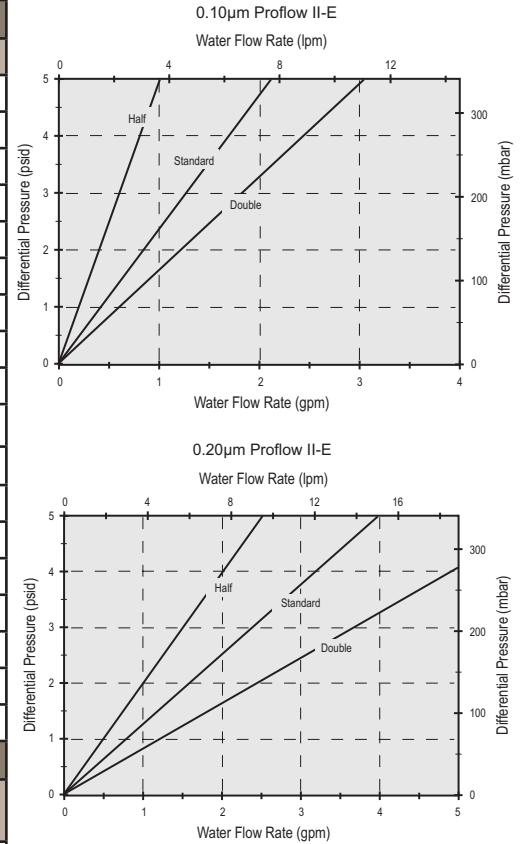
The rinse-up volume required for double-size Proflow™-E capsules to reach 18megohm-cm resistivity is approximately 12gal (45.4 liters).

Performance Attributes

Water flow rates, Typical*			
Micron	Types	gpm/psid	lpm/100mbar
0.03	Half	0.08	0.44
	Standard	0.15	0.82
	Double	0.20	1.1
0.05	Half	0.15	0.82
	Standard	0.30	1.6
	Double	0.40	2.2
0.1	Half	0.2	1.1
	Standard	0.4	2.2
	Double	0.6	3.3
0.2	Half	0.5	2.8
	Standard	0.8	4.4
	Double	1.3	7.1
0.45	Half	0.90	4.9
	Standard	1.8	9.9
	Double	2.6	14
1.0	Half	1.3	7.1
	Standard	2.6	14
	Double	3.6	20

Air flow rates, Typical			
Micron	Types	scfm/psid	Nm ³ /hr/100mbar
0.45	Half	12	30
	Standard	25	62
	Double	35	86
1.0	Half	14	35
	Standard	28	69
	Double	40	99

*For fluids with viscosity of 1cP, and capsules with sanitary fittings.



Ordering Information

Each mini-capsule is identified with a product number, pore size and lot number for traceability.

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Size	
CODE	DESCRIPTION
H	Half Size
S	Standard Size
D	Double Size

Inlet/Outlet*	
CODE	CONNECTION
B	¼" Hose Barb
H	½" Hose Barb
S	1-½" Sanitary Flange
D	Quick Disconnect
P	¼" NPT (Male)
J	½" NPT (Male)
K	¾" NPT (Female)
G	Swagelok® ½"

*Select code for both Inlet and Outlet

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

Vent O-Ring	
CODE	MATERIAL
0	Buna-N
1	EPDM
2	Silicone
4	Viton®
N	None
Z	No Vents

Specifications are subject to change without notification.
 For User Responsibility Statement, see www.parker.com/safety
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DS_ME_Proflow II-E MiniCap Rev. A



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