

Description

The Posidyne UP filter is well suited for ultrapure water application for today's advanced semiconductor manufacturers. These filter cartridges utilize the crescent-shaped Ultiplex® filter design, the latest advancement in filter technology, along with the benefit of a positive zeta potential.

Features & Benefits

- Excellent particle removal efficiency
- Positive zeta potential charge over a wide pH range
- Two removal ratings available
- Integrity testable
- Many configurations available
- High flow rates
- Low extractables
- Quick rinse-up
- Manufactured in a cleanroom environment
- 100% integrity tested



Materials

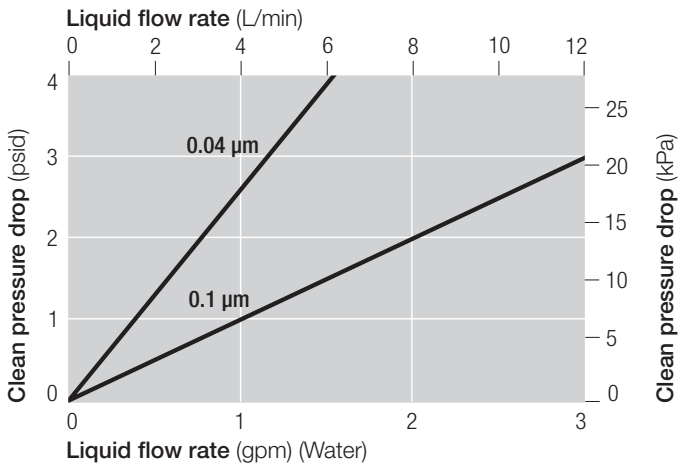
Medium	Nylon 6,6 positively charged
Core and Cage	Polypropylene
End Caps	Polyester
Support and Drainage	Polyester
O-ring Options	Silicone FEP Encapsulated Fluoroelastomer

Specifications

Removal Rating	0.1 µm, 0.04 µm
Filter Areas	1.4 m ² / 15 ft ² per 254 mm / 10 in
Nominal Length	254 mm / 10 in, 508 mm / 20 in, 762 mm / 30 in and 1016 mm / 40 in
Diameter	70 mm / 2.75 in
O-ring Size / End Caps	Code 3 (222 double O-ring / flat end) Code 8 (222 double O-ring / finned end) Code 7 (226 double O-ring / bayonet lock / finned end)
Performance Characteristics	Resistivity rinse-up to 18 megohm-cm: < 35 minutes Single digit ppb TOC rinse-up: < 35 minutes
Maximum Operating Temperature	50 °C / 120 °F
Maximum Differential Pressure	0.41 MPa @ 50 °C / 60 psid @ 120 °F
Integrity Test Values ¹ (Per 254 mm / 10 in segment)	0.04 µm < 18.8 cm ³ / min @ 0.28 MPa / 40 psig 0.1 µm < 50 cm ³ / min @ 0.35 MPa / 50 psig

¹ Test fluid used is 100% H₂O.

Typical Flow Characteristics – 1 cP fluid, 20 °C



Cartridge Style AB1

Part Numbers / Ordering Information

AB 1 U 2 Z 3 E 4

Table 1

Code	Nominal Length (mm / in)
1	254 / 10
2	508 / 20
3	762 / 30
4	1016 / 40

Table 2

Code	Removal Rating (µm)
ND	0.04
NI	0.1

Table 3

Code	O-Ring Standard	Type
7	AS568A-226	Bombfin Bayonet Lock
8	AS568A-222	Finned End Plug-in
3	AS568A-222	Flat End Plug-in

Table 4

Code	O-Ring Material ²
H1	FEP Encapsulated Fluoroelastomer
H4	Silicone

² Other O-ring materials are available, such as ultrapure clear silicone (H26 instead of H4)