

## 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 Ultipleat® 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

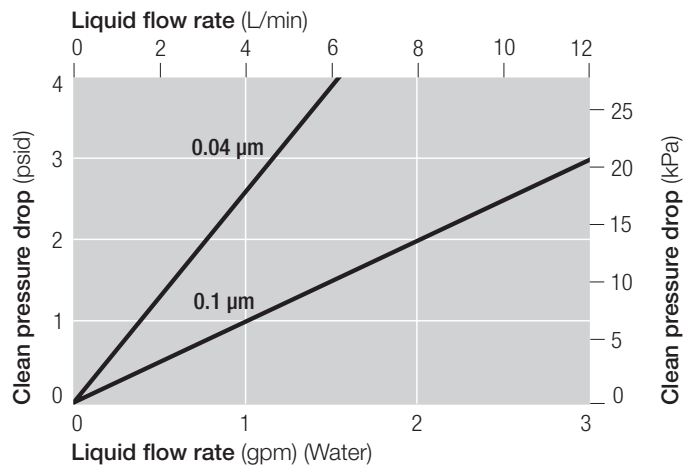
|                      |  |
|----------------------|--|
| Medium               | Nylon 6,6 positively charged                 |
| Core and Cage        | Polypropylene                                |
| End Caps             | Polyester                                    |
| Support and Drainage | Polyester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

## Specifications

|  |  |
|--|--|
| Removal Rating   | 0.1 µm, 0.04 µm  |
| Filter Areas   | 1.4 m <sup>2</sup> / 15 ft <sup>2</sup> 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)<br>Code 8 (222 double O-ring / finned end)<br>Code 7 (226 double O-ring / bayonet lock / finned end) |
| Performance Characteristics  | Resistivity rinse-up to 18 megohm-cm: < 35 minutes<br>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 <sup>1</sup><br>(Per 254 mm / 10 in segment) | 0.04 µm < 18.8 cm <sup>3</sup> / min @ 0.28 MPa / 40 psig<br>0.1 µm < 50 cm <sup>3</sup> / min @ 0.35 MPa / 50 psig                        |

<sup>1</sup> Test fluid used is 100% H<sub>2</sub>O.

## 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 <sup>2</sup>     |
|------|----------------------------------|
| H1   | FEP Encapsulated Fluoroelastomer |
| H4   | Silicone                         |

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



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