

# Z.Plex\* Absolute.Z Depth Filter

## FACT SHEET

WATER TECHNOLOGIES



## Z.Plex Depth Cartridge Filter for precision filtration

### Features and Benefits



- Absolute filtration optimized melt-blown filter
- Longer life and lower pressure drops than comparable pleated filters
- Fast rinse-up in high purity applications
- Consistent, reproducible performance and filtration quality
- Rigid high-strength polypropylene core
- Melt-bonded filter exterior ensures no media migration

### Applications

- Chemical process
- Hydrocarbon processing
- Pharmaceuticals
- Semiconductor
- Food and beverage

### Specifications

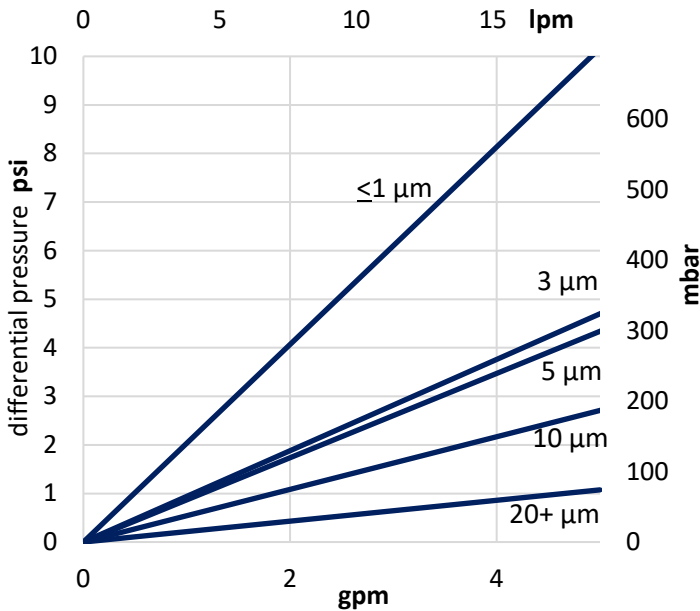
Table 1: Specifications and performance information

<b>Ratings</b>	0.5, 1, 3, 5, 10, 20, 30 microns (absolute)
<b>Inner Diameter</b>	1.1 in (2.5 cm)
<b>Outer Diameter</b>	2.5 in (6.4 cm)
<b>Lengths</b>	See Table 3: ordering information
<b>Materials of Construction</b>	
Filter Media	Polypropylene
Adapters	Polypropylene
Elastomer	Buna, EPDM, Silicone, Viton <sup>(1)</sup>
<b>Performance Conditions</b>	
Flow:	Exterior to interior
Maximum pressure drop:	
	60 psid (4.1 bar) @ 86°F (30°C)
	25 psid (1.7 bar) @ 150°F (66°C)
	15 psid (1.0 bar) @ 180°F (82°C)
Recommended change-out pressure drop:	
	35 psid (2.4 bar) @ 77°F (25°C)

### Efficiency Information

Table 2: Removal efficiency based on a modified ASTM 795 test procedure

Micron Rating	Removal rating (µm) at various efficiencies		
	90.0%	99.0%	99.9%
0.5 µm	0.3	0.5	1.0
1 µm	0.6	0.8	1.0
3 µm	1.0	2.4	3.6
5 µm	1.5	2.6	4.2
10 µm	4.3	4.9	8.5
20 µm	11.6	14.6	18.7
30 µm	13.8	19.0	23.4



Graph 1: Z.Plex Absolute.Z Filter clean water flow rate based on a 10 in length filter

## Quality

Veolia's Absolute.Z filters are manufactured under a quality management. Each filter case has a packaging code that enables tracing of the filters to a production date and shift.

Table 3: Ordering Information

	1	2	3	4	5
Type	Micron Rating (absolute)	Cartridge Length	End #1 Adapter	End #2 Adapter	Elastomer Material
Abs.Za	95 = 0.5 $\mu\text{m}$ 01 = 1 $\mu\text{m}$ 03 = 3 $\mu\text{m}$ 05 = 5 $\mu\text{m}$ 10 = 10 $\mu\text{m}$ 20 = 20 $\mu\text{m}$ 30 = 30 $\mu\text{m}$	9 $\frac{7}{8}$ in. (25.1 cm) 19 $\frac{1}{2}$ in. (49.5 cm) 20 in. (50.8 cm) 29 $\frac{1}{4}$ (74.3 cm) 29 $\frac{1}{2}$ in. (74.9 cm) 30 in. (76.2 cm) 40 in (101.6 cm)	A = Open end w/gasket E = 222 O-Ring F = 226 O-Ring  Y = Thermally bonded gasket	A = Open end w/gasket H = Fin K = Self Seal Spring S = Solid End  Y = Thermally bonded gasket	B = Buna E = EPDM S = Silicone V = Viton <sup>1</sup>  P = Santoprene <sup>2</sup> (bonded gasket only)

<sup>1</sup> Viton (Trademark of The Chemours Company)

<sup>2</sup> Santoprene (licensed to Advanced Elastomer Systems, L.P.)

<sup>3</sup> Elastomers (B,E,S,V) Meet FDA 21 CFR 177.2600. Filter products that include elastomers meet NSF61

## Filter Media Certifications

- U.S. FDA 21CFR 177.1520<sup>3</sup>
- EU Framework Regulation No. 1935/2004/EC
- EU Plastics Regulation No. 10/2011
- USP class VI-121°C Plastics criteria
- NSF 61 certification<sup>3</sup>
- ISO 9001:2015 certified processes

Veolia depth cartridge filters are designed and manufactured for resistance to a wide range of chemical solutions. Conditions will vary with each application and users should carefully verify chemical compatibility. Please contact your Veolia representative for more information.

## Ordering Information

Replace the numbers with your desired values from each column. Columns 3, 4, and 5 are optional depending on the desired configuration.

**Example:** Abs.Za 01-40-EHE

