

# Z.Plex\* SWRO.Z Depth Filter

## FACT SHEET



For seawater reverse osmosis (SWRO) pre-filtration



## Features and Benefits

- Engineered specifically for seawater reverse osmosis pretreatment
- Depth filter traps particles throughout the media
- True graded density offers longer filter lifetime
- Very low pressure drop and flow resistance
- Melt-bonded exterior ensures no media migration

## Applications

- SWRO pre-filtration for Veolia reverse osmosis (RO) systems and universal equipment

## Specifications

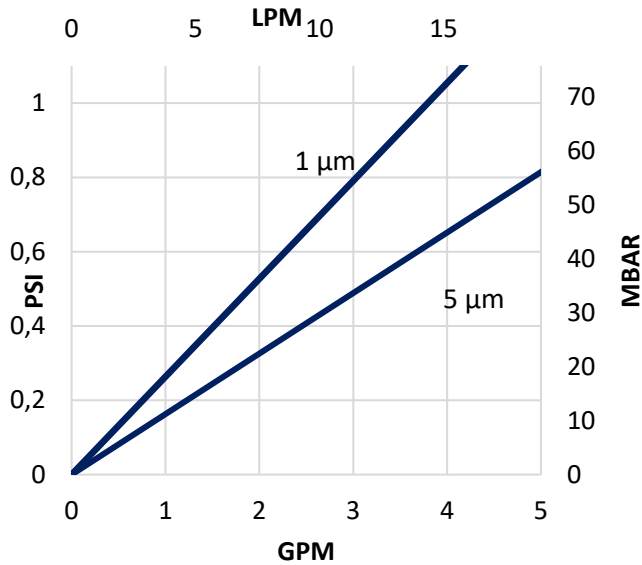
Table 1: Specifications and performance information

<b>Ratings</b>	1, 5 microns (nominal)
<b>Inner Diameter (nominal)</b>	1.1 in (2.5 cm)
<b>Outer Diameter</b>	2.46 in (6.2 cm)
<b>Lengths</b>	See Table 3: ordering information
<b>Materials of Construction</b>	
Filter Media	Polypropylene
Adapters	Polypropylene
Elastomer	Buna, EPDM, Silicone,
<b>Performance Conditions</b>	
Flow:	Exterior to interior
Maximum pressure drop:	35 psid (2.4 bar) @ 77°F (25°C)
Recommended change-out pressure drop:	20 psid (1.4 bar) @ 77°F (25°C)

## Efficiency Information

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

Micron Rating	Removal Rating ( $\mu\text{m}$ ) at Various Efficiencies		
	90.0%	99.0%	99.9%
1 $\mu\text{m}$	<i>Efficiency of nominal filters varies by application. See note for information on nominal filter efficiency<sup>1</sup></i>		
5 $\mu\text{m}$			



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

### Quality

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

### Filter Media Certifications

- U.S. FDA 21CFR 177.1520<sup>2</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>2</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. Omit columns 3 and 4 if code is XX.

Example: SWRO.Zs 05-40-XK

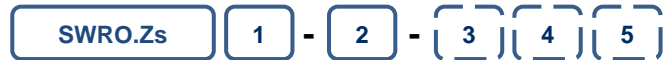


Table 3: Ordering information

	1	2	3	4	5
Type	Micron Rating (nominal)	Cartridge Length	End #1 Adapter	End #2 Adapter	Elastomer Material
SWRO.Zs	01 = 1 µm 05 = 5 µm	40 in (101.6 cm) 50 in (127.0 cm) 60 in (152.4 cm) 70 in (177.8 cm)	X = Standard Open End (no gasket) E = 222 O-Ring F = 226 O-Ring L = Extended Core	X = Standard Open End (no gasket) H = Fin K = Self Seal Spring S = Solid End	B = Buna E = EPDM S = Silicone

<sup>1</sup>Absolute-rated filters have been designed and tested to reject at least 99% of particles of the listed micron size. Nominal-rated filters have a wider distribution of pore sizes and therefore a wider distribution of rejected particle sizes. The nominal rating is primarily used to compare efficiencies across a filter family and between filter manufacturers. Efficiency is dependent on particle shape, size, composition, application, and testing protocol.  
<sup>2</sup>Elastomers (B,E,S) Meet FDA 21 CFR 177.2600. Filter products that include elastomers meet NSF61.