ROSave.Z*

FACT SHEET

Z.Plex* technology depth filter for reverse osmosis pre-filtration

Features and Benefits

- Engineered specifically for reverse osmosis pretreatment and suitable for many pure water applications
- Depth filter traps particles throughout the media
- True depth media offers longer filter lifetime
- Very low pressure drop and flow resistance
- Thermally bonded construction and mel-bonded end adaption

Applications

- Reverse osmosis pre-filtration for Veolia RO systems and universal equipment
- Beverage
- Electronics
- Pre/post DI or active carbon

Specifications

Table 1: Specifications and performance information

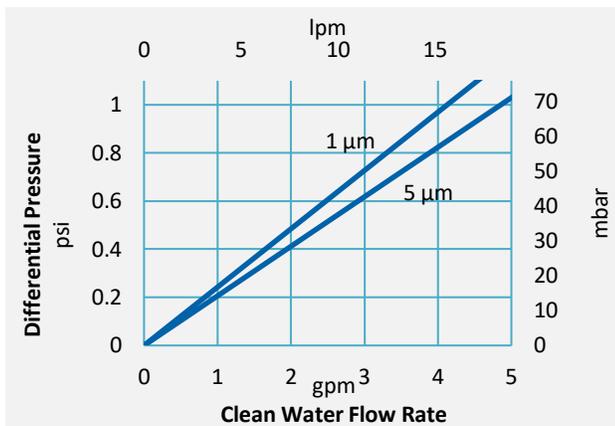| Ratings	1, 5 microns (nominal)
Inner Diameter (nominal)	1 in (2.5 cm)
Outer Diameter	2.5 in (6.4 cm)
Lengths	
9 3/4 in (24.8 cm)	20 in (50.8 cm)
9 7/8 in (25.1 cm)	29 1/4 in (74.3 cm)
10 in (25.4 cm)	30 in (76.2 cm)
19 1/2 in (49.5 cm)	40 in (101.6 cm)
Longer lengths up to 70 in may be available upon request	
Materials of Construction	
Filter Media	Polypropylene
Adapters	Polypropylene
Elastomer	Buna, EPDM, Silicone, Viton[1], Santoprene[2] (flat gasket only)

Performance Conditions

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 test procedure

Micron Rating	Removal rating (µm) at various efficiencies		
	90.0%	99.0%	99.9%
1 µm	*Efficiency of nominal filters varies by application. See note for information on nominal filter efficiency[3]*		
5 µm			

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

Certifications

- U.S. FDA 21CFR 177.1520 food contact requirements
- Article 3 of the EU Framework Regulation No. 1935/2004/EC safety requirements
- EU Plastics Regulation No. 10/2011 (may be used as intended in all compliant EU Member states)
- USP class VI-121'C Plastics criteria
- NSF 61 criteria
- ISO 9001 criteria

Veolia filter cartridges 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.

Quality

ROSave.Z filters are manufactured under a quality management system that has been certified to meet ISO 9001 standards. Each filter is assigned a lot code to ensure traceability of the data and materials used in the manufacturing process.

Ordering Information

Replace the numbers with your desired values from each column. Columns 3, 4, and 5 are optional depending on the desired configuration. Use "-B" if you would like bulk packaging.

Example: RO.Zs 05-40-XK-B

RO.Zs 1 - 2 - [3][4][-5] [B]

Table 3: Ordering information

	1	2	3	4	5
Type	**Micron Rating (nominal)**	**Cartridge Length**	**End #1 Adapter**	**End #2 Adapter**	**Elastomer Material**
RO.Zs	01 = 1 µm	9 $^3/_4$ (24.8 cm)	E = 222 O-Ring	H = Fin	B = Buna
	05 = 5 µm	9 $^7/_8$ (25.1 cm)	F = 226 O-Ring	K = Self Seal Spring	E = EPDM
		10 in (25.4 cm)			P = Santoprene[2] (flat gasket only)
		19 $^1/_2$ in. (49.5 cm)	L = Extended Core	S = Solid End	S = Silicone
		20 in (50.8 cm)			V = Viton[1]
		29 $^1/_4$ in. (74.3 cm)	X = Standard Plain End (no gasket)	X = Standard Plain End (no gasket)	
		30 in. (76.2 cm)			
		40 in. (101.6 cm)			
		Longer lengths up to 70 in may be available upon request	Y = Flat Gasket	Y = Flat gasket	

[1]Viton (trademark of The Chemours Company)

[2]Santoprene (licensed to Advanced Elastomer Systems, L.P.)

[3]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.

Veolia Water Technologies
Please contact us via:
www.veoliawatertechnologies.com

2