Z.Plex* WellPro.Z* Depth Filter

FACT SHEET

WATER TECHNOLOGIES

VEOLIA

Z.Plex Depth Cartridge Filter with increased strength and durability

Features and Benefits

- Engineered to be robust for well water injection, produced water disposal, oil and gas applications, and other demanding applications
- Excellent temperature and oil resistance
- Enhanced melt-blown core for added strength
- Superior protection of equipment components
- Optimized exterior decreases premature loading
- Provides lower total cost of filtration operations

Applications

- Oil and gas
- Well injection
- Produced water filtration
- Water flood and enhanced oil recovery
- Brine filtration
- Sea water filtration

Specifications

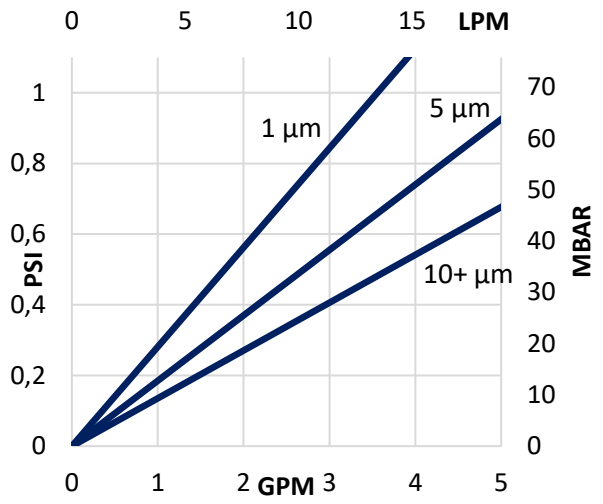
Table 1: Specifications and performance information

Ratings	1, 5, 10, 20 microns (nominal)
Inner Diameter (nominal)	1 in (2.5 cm)
Outer Diameter	2.5 in (6.4 cm)
Lengths	See Table 3: ordering information
Materials of Construction	
Filter Media	Polypropylene
Adapters	Polypropylene
Elastomer	Buna, EPDM, Silicone, Viton [1]
Performance Conditions	
Flow:	Exterior to interior
Maximum pressure drop:	
	85 psid (5.9 bar) @ 80°F (27°C)
	50 psid (3.4 bar) @ 130°F (54°C)
	35 psid (2.1 bar) @ 160°F (71°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 95 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 [2]*		
5 µm			
10 µm			
20 µm			



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

Quality

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

Filter Media Certifications

- U.S. FDA 21CFR 177.1520[4]
- EU Framework Regulation No. 1935/2004/EC
- EU Plastics Regulation No. 10/2011
- USP class VI-121'C Plastics criteria
- NSF 61 certification[3]
- ISO 9001:2015 certified process

Veolia depth cartridge fitlers 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 column 3 and 4 if code is XX.

Example: WP.Zs 01-20-ESS

WP.Zs	1	-	2	-	3	4	5

Table 3: Ordering information

	1	2	3	4	5
Type	**Micron Rating (nominal)**	**Cartridge Length**	**End #1 Adapter**	**End #2 Adapter**	**Elastomer Material**
WP.Zs	01 = 1 µm 05 = 5 µm 10 = 10 µm 20 = 20 µm	19 1/2 in (49.5 cm) 20 in (50.8 cm) 29 in (74.3 cm) 30 in (76.2 cm) 40 in (101.6 cm)	X = Standard Open End (no gasket) E = 222 O-Ring	X = Standard Open End (no gasket) H = Fin K = Self Seal Spring S = Solid End	B = Buna E = EPDM S = Silicone V = Viton [1]

1 Viton (trademark of The Chemours Company)
2 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.
3 Elastomers (B,E,S,V) Meet FDA 21 CFR 177.2600. Filter products that include elastomers meet NSF61