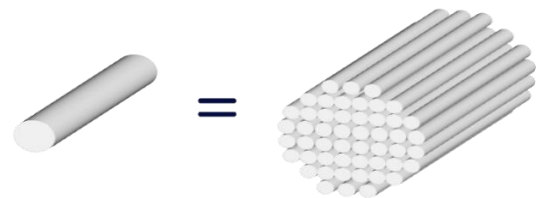


# Nominal High Flow Z\*

## FACT SHEET

Z.Plex\* technology depth filter for increased flow filtration



1 High Flow Z filter

50 standard filters

**Figure 1: A single 40-inch High Flow Z filter has the dirt holding capacity of 50 standard 40-inch length depth cartridge filters.**

### Features and Benefits

- Large diameter for high volume filtration
- Polypropylene melt-blown depth media filter design
  - Graded density retains particles throughout the full diameter of the filter
  - Enhanced dirt-holding capacity yields quicker upset recovery and less surface binding
  - Outperforms pleated filters
- Easier and less frequent change-outs than conventional standard 2.5 in. outer diameter depth filters
- Lower total cost of filtration operations
- Superior SDI reduction

### Applications

- Amine filtration
- Well injection
- Produced water filtration
- Waterflood
- Enhanced oil recovery

### Specifications

**Table 1: Specifications and performance information**

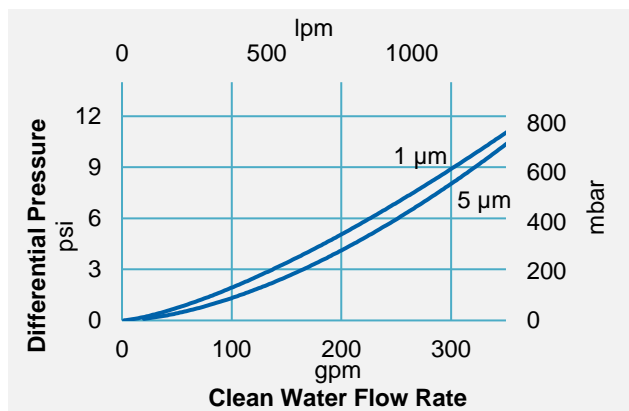
<b>Nominal Micron Ratings</b>	1, 5 microns	
<b>Lengths</b>	40 in (101.6 cm)	
	60 in (152.4 cm)	
<b>Inner Diameter</b>	40 in length	1.6 in (4.1 cm)
	60 in length	3.1 in (7.9 cm)
<b>Outer Diameter</b>	6.5 in (16.5 cm)	
<b>Materials of Construction</b>		
	Filter Media	Polypropylene
	Adapters	Polypropylene
	Elastomer	EPDM
<b>Performance Conditions</b>		
Maximum pressure drop:		
	50 psid (3.4 bar) @ 77°F (25°C)	
	35 psid (2.4 bar) @ 160°F (71°C)	
Recommended change-out pressure drop:		
	35 psid (2.4 bar) @ 77°F (25°C)	

## Efficiency Information

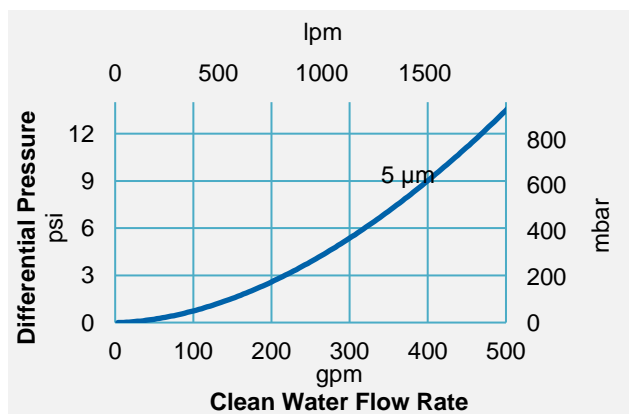
**Table 2: Removal efficiency based on a modified ASTM 795 test procedure**

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 $\mu\text{m}$			

<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 or 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.



**Graph 1: High Flow Z clean water flow rate based on a 40 in length filter**



**Graph 2: High Flow Z clean water flow rate based on a 60 in length filter**

## Quality

High Flow 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.

## Compliance

- US FDA 21 CFR compliant materials
- 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).
- Meets USP Class VI-121 C plastics criteria.
- NSF 61 certified
- ACS certified (Attestation de Conformité Sanitaire). (EPDM o-rings only).
- ISO 9001:2015 certified processes

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.

## Ordering Information

**Table 3: Part Numbers**

Length	Nominal Micron	Part number	Description
40"	1	3146356	HF.ZS 01-40-FSE
	5	3146358	HF.ZS 05-40-FSE
60"	1	3156436	HF.ZS 01-60-TSE
	5	3156621	HF.ZS 05-60-TSE

**Table 4: Description key**

End #1 Adapter	End #2 Adapter	Elastomer Material
F = 226 O-Ring	S = Closed end with ergonomic handle	E = EPDM
T = 338 O-Ring		

**Table 5: Elastomer Kits**

Filter Adaptor	Material	Part number	Quantity
40" (226)	Buna	3195517	80 <sup>3</sup>
40" (226)	Silicone	3195811	80 <sup>3</sup>
40" (226)	Viton <sup>2</sup>	3195812	80 <sup>3</sup>
60" (338)	Buna	3195815	25
60" (338)	Silicone	3195814	25
60" (338)	Viton <sup>2</sup>	3195816	25

<sup>2</sup> Viton is a registered mark of The Chemours Company.

<sup>3</sup> Two (2) required on 226 adapters for each filter

