

WellPro.Z* depth cartridge filter

for well injection applications with Z.Plex* technology

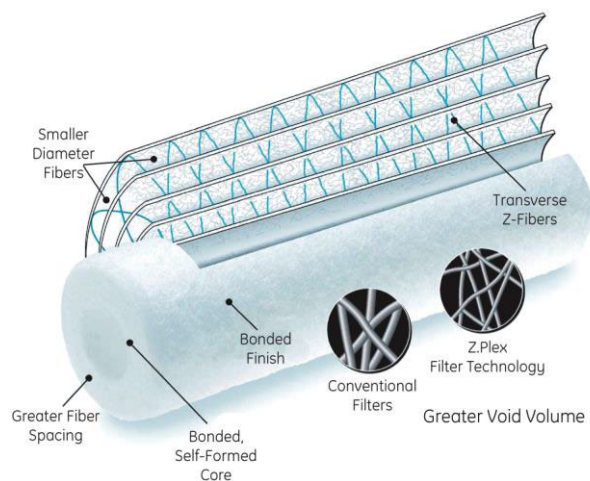


Figure 1: Z.Plex Filter Technology

description and use

WellPro.Z* is manufactured using patent pending Z.Plex filter technology (Figure 1) and is engineered for well injection, produced water disposal and other oil and gas applications. WellPro.Z's proprietary filter matrix provides unmatched performance in these applications.

- Up to twice the life of conventional depth filters
- Up to 50% lower pressure drop
- Up to 100% greater dirt holding capacity
- Superior protection of geologic strata
- Optimized exterior decreases premature loading
- Excellent temperature / oil resistance
- Provides lower total cost of filtration operations

typical applications

- Well injection
- Produced water filtration
- Water flood / enhanced oil recovery
- Brine filtration
- Sea water filtration

general properties

WellPro.Z Filters are available with four pore size ratings. They are made of 100% polypropylene construction. Tables 1, 2 and 3 show further details on dimensions, flow rate and crush rate of the WellPro.Z.

Table 1: Dimensions

Nominal Outside Diameter	Nominal Inside Diameter
2.5" (6.4 cm)	1" (2.5 cm)

Table 2: WellPro.Zs psid vs. Flow Rate¹

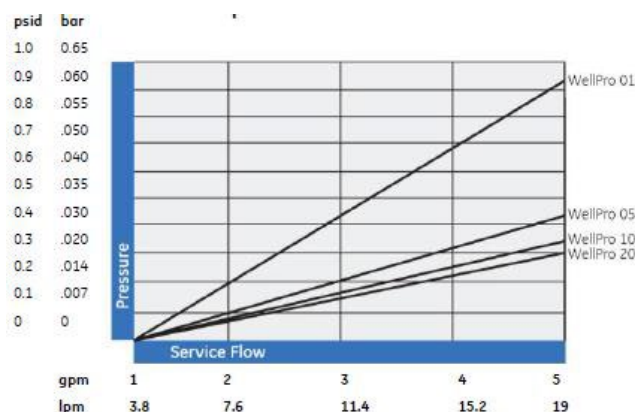
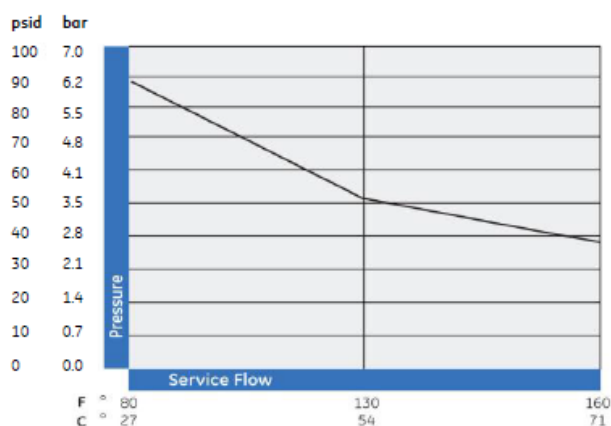


Table 3: Temperature vs. Crush Strength¹



¹ Data based on 10" length filter

micron ratings, lengths and end adapters

- Micron ratings: 1, 5, 10 and 20 micron
- Standard lengths fit most housings – custom lengths are also available
- Wide range of end adapters including self-sealing spring, and 222 o-rings.

ordering information

If you are ordering WellPro.Zs filters with standard ends (with no adapter on either end), select one designation from each of the first three columns. Your Product Order Number will look like this: WP.Zs 05 - 40. If you are ordering WellPro.Zs with end adapters, select designations from all applicable columns. Your Product Order Number will look like this: WP.Zs 05-40 XK. See further ordering details in Table 4.

additional information

WellPro.Zs cartridge filters are made from thermally bonded fibers of polypropylene. SUEZ certifies that it uses no resin binders, lubricants, antistatic or release agents, in the manufacture of these filter cartridges. The resin used for manufacturing the filter media meet the food contact requirements of the U.S. FDA 21CFR 177.1520. WellPro.Zs cartridge filters meet the safety requirements of Article 3 of the EU Framework Regulation No. 1935/2004/EC and may be used as intended in all of the EU Member states in full compliance with the EU Plastics Regulation No. 10/2011. WellPro.Zs cartridge filters meet the criteria for USP class VI-121°C Plastics.

SUEZ 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 SUEZ representative for more information.

Table 4: Ordering Information

Type	Micron Rating (µm)	Cartridge Length Inches (cm)	End #1 Adapter	End #2 Adapter	Material
WP.Z	01 = 1	19 ½ (49.5)	E = 222 O-Ring X = Standard Plain End (no gasket)	K = Self Seal Spring H = Fin	O-Rings S = Silicone
	05 = 5	20 (50.8)			
I.D. = 1.0	10 = 10	29 (74.3)		S = Solid End X = Standard Plain End (no gasket)	E = EPDM V = Viton ² B = Buna
O.D. = 2.5	20 = 20	30 (76.2) 40 (101.6)			

²Viton is a registered trademark of DuPont.

