

High Flow Z* Depth Cartridge Filter

Manufactured with Z.Plex* Technology



Figure 1: High Flow Z filter (above)
Inset pictures: handle for change-outs

Description and Use

High Flow Z* is manufactured using patented Z.Plex filter technology and is engineered for RO pre-filtration, well injection, produced water disposal and other applications. High Flow Z's proprietary filter matrix provides unmatched performance in these applications.

- Low pressure drop
- Excellent dirt holding capacity
- Graded density decreases blinding
- Excellent temperature / oil resistance
- Provides lower total cost of filtration operations

Typical Applications

- RO pre-filtration
- Well injection
- Produced water filtration
- Water flood / enhanced oil recovery
- Amine filtration
- Seawater filtration

General Properties

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

Table 1: Dimensions

| Nominal Outside Diameter | Nominal Inside Diameter |
|--------------------------|-------------------------|
| 6.5" (15.2 cm) | 2.5" (6.4 cm) |

Table 2: High Flow Z psid vs. Flow Rate

| Model | HFZ01 | HFZ05 | HFZ15 | HFZ25 |
|------------|-------|-------|-------|-------|
| dP @ 20gpm | 0.09 | 0.08 | 0.1 | 0.09 |
| dP @ 40gpm | 0.13 | 0.12 | 0.15 | 0.13 |
| dP @ 60gpm | 0.18 | 0.16 | 0.2 | 0.18 |

Table 3: Operating Conditions

| Description | Measurement |
|-------------------------------|--------------------|
| Maximum Operating Temperature | 160°F (71°C) |
| Recommended Flow (in water) | 60 gpm (227 lpm) |
| Maximum Differential Pressure | 50 psid (3.44 bar) |

Micron Ratings, Lengths and End Adapters

- Micron ratings:
 - Nominal Rated – 1 and 5 micron
 - Absolute Rated (99.9%) – 15 and 25 micron

Ordering Information

High Flow Z filters are available with 226 and solid end caps. Your Product Order Number will look like this: HFZ 05-40 FSS, if ordering with silicone o-rings. See further ordering details in Table 4.

Additional Information

High Flow Z cartridge filters are made from thermally bonded fibers of polypropylene. These 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.

Table 4: Ordering Information

| Type | Micron Rating (µm) | Cartridge Length Inches (cm) | End #1 Adapter | End #2 Adapter | Material |
|----------------------------|---------------------------------------|------------------------------|----------------|----------------|---|
| HF.Zs | Nominal 01 = 1 05 = 5 | 40 (101.6) | F = 226 O-Ring | S = Solid End | O-Rings S = Silicone E = EPDM V = Viton ² B = Buna |
| HF.Za | Absolute 15 = 15 25 = 25 | | | | |
| I.D. = 3.0" O.D. = 6.5" | | | | | |

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