WPS Cartridge Filters Polyethersulfone (PES) Membrane





WPS Filter Cartridges with symmetric polyethersulfone (PES) membrane are ideal for purified water filtration. The symmetric membrane used in WPS cartridges guards against bacterial growthrough during the long life of the filter, reducing the potential for biofilm accumulation in system piping. WPS cartridges are flushed with high purity water to remove manufacturing debris.

Construction Materials

| Filtration Media | Symmetric Polyethersulfone (PES) Membrane |
|--------------------|---|
| Media Support | Polypropylene |
| End Caps | Polypropylene |
| Center Core | Polypropylene |
| Outer Support Cage | Polypropylene |
| Sealing Method | Thermal Bonding |
| O-rings | Buna, Viton® (or FKM), EP, Silicone, FEP Encapsulated Silicone, FEP Encapsulated Viton (or FKM) |

Applications

- Process Water
- DI Water
- Ultrapure Water
- Pharmaceutical Waters

Dimensions

| Length | 5 to 40 in. (12.7 to 101.6 cm) nominal |
|------------------|--|
| Outside Diameter | 2.75 in. (7.0 cm) nominal |
| Filtration Area | 7.0 ft² (0.65 m²) per 10 in. length |

Maximum Operating Parameters

Differential Pressure

| Forward | 50 psid (3.4 bard) at 20 °C (68 °F) |
|-----------------------------------|---|
| Reverse | 40 psid (2.7 bard) at 20 °C (68 °F) |
| Operating Temperature | 82 °C (180 °F) at 10 psid (0.69 bard) in water |
| Recommended Changeout Pressure | 35 psid (2.4 bard) |

Sanitization/Sterilization

| Filtered Hot Water | | 94 °F), 30 max 3 psi | es, multiple ard flow | | | |
|--------------------|--|-------------------------|--------------------------|--|--|--|
| - | | | | | | |

For all elevated temperature procedures above, a stainless steel support ring is required.

Chemical Sanitization

Performed using industry standard concentrations of hydrogen peroxide, paracetic acid, sodium hypochlorite, and other selected chemicals.

Total Performance

Critical Process Filtration, Inc. is a vertically integrated manufacturer of filtration products to industries in which filtration is considered a critical part of the manufacturing process. We supply a complete line of products and services to help you cost effectively satisfy all your filtration requirements from a single source.

FDA and EC Compliance

All Critical Process Filtration cartridge filters are made using materials that meet the FDA requirements for processing food and beverage products. These filters comply with Title 21 CFR sections 210.3 (b)(6) and 211.72, for non-fiber releasing filters. All materials used to make the filters are listed in European Commission Regulation EU/10/2011, Annex 1.

Extractables

WPS filters typically exhibit low levels of non-volatile residues.

Quality Assurance and Standards

Our goal is to ensure our customers the greatest possible value for their filtration dollar. Our state of the art manufacturing facility and quality management system both meet ISO 9001:2008 standards. Each operation from assembly and test to cleaning, drying, and packaging is done in appropriately rated clean rooms. A sophisticated MRP system collects and processes real time data from manufacturing centers and inspection points. This allows variable and attribute data to be quickly and easily analyzed driving constant improvements in both quality and cost.

Flow Rate

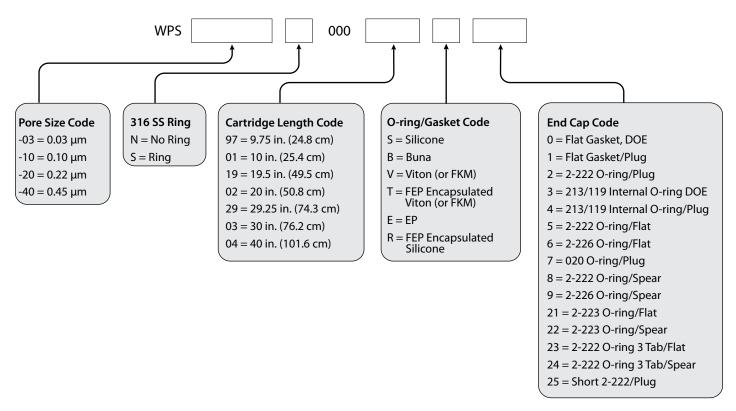
The Typical Flow Rates table represents typical water flow at a 1 psid (69 bard) pressure differential across a single 10 in. cartridge element. The test fluid is water at ambient temperature. Extrapolation for housings with multiple elements and higher pressure drops is acceptable, but as flows increase the pressure drop of the housing becomes more apparent.

Typical Flow Rates

| Pore Size | 0.03 μm | 0.10 μm | 0.22 μm | 0.45 μm |
|-----------|---------|---------|---------|---------|
| GPM | 1.5 | 2.5 | 3.2 | 6.0 |
| LPM | 5.67 | 9.46 | 12.11 | 22.71 |

Ordering Information

Cartridge order numbers have several variables from pore size to end cap type. For example, Water Grade PES Membrane, 0.22 Micron Rating, No SS Support Ring, 20" Length, Silicone O-Rings, 2-222/Flat End Cap Configuration = WPS-20N00002S5.



Request a **QUOTE** from your area representative



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