

CPD Cartridge Filters

Economy Pleated Polypropylene Depth Media



Commercial grade CPD pleated polypropylene depth filter cartridges are made using extruded outer cages and a continuous pleat pack for economical construction. The media is high quality polypropylene depth media such as in our standard PD filters, which offers exceptional flow characteristics and high dirt-holding capacity. Fine polypropylene fibers are bonded together to ensure no fiber release in a fiber matrix that maintains high porosity. An economical design and a 99%+ retention efficiency make the CPD filter a cost effective option for water, waste streams and chemical applications.

Construction Materials

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

Applications

- ◆ Process Water
- ◆ Waste Stream Cleanup
- ◆ Speciality Chemicals
- ◆ Sediment Removal

Dimensions

| | |
|-------------------------|---|
| Length | 10 to 40 in. (25.4 to 101.6 cm) nominal |
| Outside Diameter | 2.50 in. (6.35 cm) nominal |
| Filtration Area | 5.8 ft ² (0.54 m ²) per 10 in. length (Average - area varies with media thickness and porosity) |

Maximum Operating Parameters

| | |
|---------------------------------------|--|
| Differential Pressure | |
| Forward | 50 psid (3.4 bard) at 20 °C (68 °F) |
| Reverse | 20 psid (1.4 bard) at 20 °C (68 °F) |
| Maximum Operating Temperature | 80 °C (175 °F) at 10 psid (0.69 bard) in water |
| Recommended Changeout Pressure | 35 psid (2.4 bard) |

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. CPD 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

CPD 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

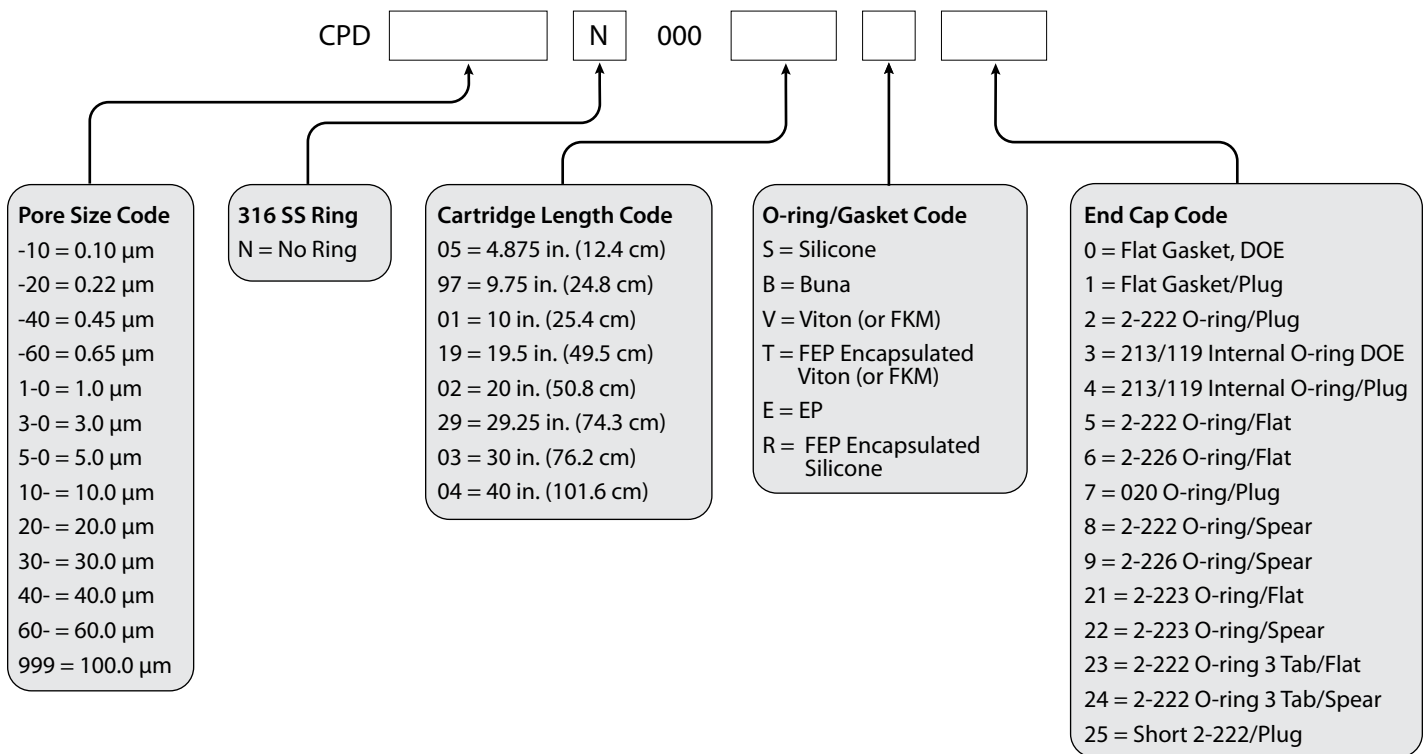
The Typical Flow Rates table represents typical water flow at a 1 psid (69 mbar) pressure differential across a single 10 in. cartridge element. The test fluid is water at ambient temperature. Extrapolation for housings with multiple elements and higher pressure drops is acceptable, but as flows increase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

Typical Flow Rates

| Pore Size | 0.10 µm | 0.22 µm | 0.45 µm | 0.65 µm | 1.0 µm | 3.0 µm | 5.0 µm | 10 µm | 20 µm | 30 µm | 40 µm | 60 µm | 100 µm |
|------------|---------|---------|---------|---------|--------|--------|--------|-------|-------|-------|-------|-------|--------|
| GPM | 1.0 | 3.0 | 5.0 | 6.0 | 8.0 | 12 | 16 | 18 | > 20 | > 20 | > 20 | > 20 | > 20 |
| LPM | 3.79 | 11.35 | 18.92 | 22.71 | 30.28 | 45.42 | 60.56 | 68.13 | 75.70 | 75.70 | 75.70 | 75.70 | 75.70 |

Ordering Information

Cartridge order numbers have several variables from pore size to end cap type. For example, Commercial Grade Pleated Polypropylene Depth Media, 0.22 Micron Rating, No SS Support Ring, 20" Length, Silicone O-Rings, 213/119 Internal O-Ring/Plug End Cap Configuration = CPD-20N0000254.



Request a **QUOTE** from your area representative



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