

Filter Data Sheet

FPD_{grade} Polypropylene Depth Media Filter Cartridges developed for the special needs of the food and beverage industry

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FPD cartridges have been designed to comply with all FDA requirements for the food industry. These cartridges have been rinsed with 18 megohm-cm water to ensure that no manufacturing debris remains downstream to contaminate your product. This washing also ensures that all extractables which may effect the taste of the product or other performance characteristics such as foaming or brightness are removed. Cartridges are designed to give maximum throughput because of gradient density construction. This design facilitates cartridge cleaning.

Flow Rate

The following table represents typical water flow at a one psi (69 mbar) pressure differential across a single 10 inch 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.

Pore Size	0.1 µm	0.22 µm	0.45 µm	1.0 µm	3 µm	5 µm	10 µm	20 µm	30 µm	40 µm
GPM	1.0	3.0	5.0	8.0	12.0	16.0	18.0	>20.0	>20.0	>20.0

Dimensions

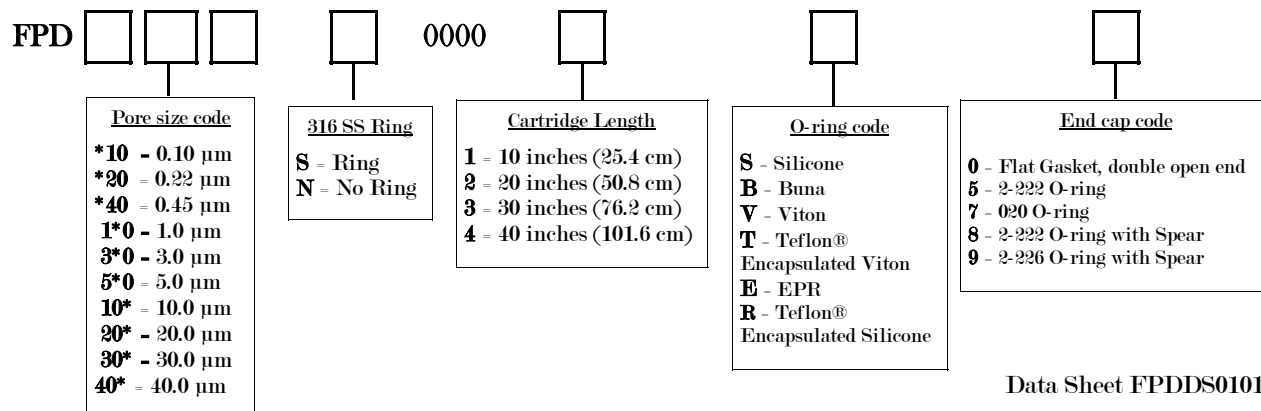
Length:10 to 40 inches (25.4 to 101.6 cm) nominal

Maximum Differential Pressures

Forward: 50 psi (3.4 bar) at 20°C.
Reverse: 40 psi (2.7 bar) at 20°C.

Ordering Information

The cartridge catalog number is made up of several variable characters i.e. pore size, length, O-ring material, and end cap code. For example: a 0.10 µm, 20 inch (50.8 cm) long cartridge with 2-222, Teflon® Encapsulated Viton O-rings, no spear (flat top) and no 316 SS Ring would be designated as: FPD*10N0000?T5.



Construction Materials¹

Filtration Media:Polypropylene
Filtration Media Support:Polypropylene
End Caps:Polypropylene
Center Core:Polypropylene
Outer support Cage:Polypropylene
O-rings: Buna, Viton, Silicone, EPR, Teflon® Encapsulated Silicone, Teflon® Encapsulated Viton

¹ All materials of construction are FDA accepted. Final assemblies have been validated to pass USP class 6 Toxicology extractable tests, oxidizable substances for plastics, endotoxin level and other quality tests.

Sanitization/Sterilization

Filtered Hot Water:90°C
Chemical Sanitization:Industry standard concentrations of hydrogen peroxide, paracetic acid, sodium hypochlorite and other selected chemicals. Sanitization protocols designed to extend the useful life of FPD cartridges are available from Critical Process Filtration, Inc.®.

Integrity Test Information

Cartridges are factory tested for integrity before shipment. Field Duplication of these tests is not practical because of the complexity of the testing process and absence of commercial portable testing equipment.