

Filter Data Sheet

PPD_{grade} Polypropylene Depth Media Filter Cartridges developed for the special needs of the pharmaceutical industry

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PPD Grade Polypropylene Depth Media cartridges are designed to be used as pre-filters and non-sterilization grade Filters in the pharmaceutical industry. Special attention was given in the design of these cartridges to ensure long life as well as superior retention. PPD Grade cartridges have been flushed to remove any manufacturing debris and ensure particle free filtrate.

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	25 µm	40 µm
GPM	1.0	3.0	5.0	8.0	12.0	16.0	18.0	>20.0	>20.0

Dimensions

Length:10 to 40 inches (25.4 to 101.6 cm) nominal
Outside Diameter:2.75 inches (7.0 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: PPD*10N00002T5.

PPD 0000

<p style="text-align: center;"><u>Pore size code</u></p> <p>*10 - 0.10 µm *20 - 0.22 µm *40 - 0.45 µm 1*0 - 1.0 µm 3*0 - 3.0 µm 5*0 - 5.0 µm 10* - 10.0 µm 25* - 25.0 µm 40* - 40.0 µm</p>	<p style="text-align: center;"><u>316 SS Ring</u></p> <p>S = Ring N = No Ring</p>	<p style="text-align: center;"><u>Cartridge Length</u></p> <p>1 = 10 inches (25.4 cm) 2 = 20 inches (50.8 cm) 3 = 30 inches (76.2 cm) 4 = 40 inches (101.6 cm)</p>	<p style="text-align: center;"><u>O-ring code</u></p> <p>S - Silicone B - Buna V - Viton T - Teflon® Encapsulated Viton E - EPR R - Teflon® Encapsulated Silicone</p>	<p style="text-align: center;"><u>End cap code</u></p> <p>0 - Flat Gasket, double open end 5 - 2-222 O-ring 7 - 020 O-ring 8 - 2-222 O-ring with Spear 9 - 2-226 O-ring with Spear</p>
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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 PPD cartridges are available from Critical Process Filtration, Inc.®.