

Filter Data Sheet

PGD_{grade} Fiber Glass Depth Media Filter Cartridges developed for the special needs of the pharmaceutical industry

Dist. by: H.R. Peterson Co. - 814 Prior Ave. No. - St. Paul, MN 55104
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As required by the FDA, our pharmaceutical grade Fiber Glass Depth media cartridges are composite media cartridges containing a final downstream layer of Nylon membrane media to ensure fiber free effluent. This means they can be used without the addition of membrane cartridge downstream in the filter train. The cartridge has the dual benefits of high contaminant holding as well as excellent retention. These high capacity cartridges are used in pre-filter applications as well as final filter applications where the goal is bioburden reduction and not sterile product. Each cartridge module is tested for integrity before shipment.

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	0.22 µm	0.45 µm	1.0 µm	3 µm
GPM	3.0	5.0	8.0	12.0

Dimensions

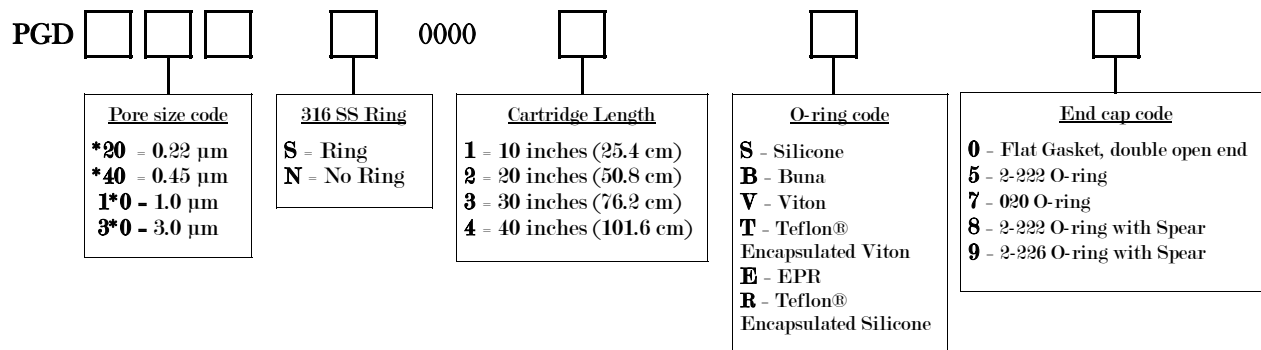
Length:10 to 40 inches (25.4 to 101.6 cm) nominal
Outside Diameter:2.75 inches (7.0 cm) nominal

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: PGD*10N00002T5.



Construction Materials¹

Filtration Media:Fiber Glass / Polypropylene
Filtration Media Support:Polypropylene
End Caps:Polypropylene
Center Core:Polypropylene
Outer support Cage:Polypropylene
O-rings: Buna, Viton, Silicon, 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 PGD 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.