

Mini Depth Pleated PP Filter Capsules

(Depth PP Media on PP Construction)

High Contaminant Holding Filtration

PureFlo® Pleated Depth capsule filters are designed for filtration and clarification applications in the pharmaceutical, biotechnology, food and beverage, medical, chemical, and water worldwide. This family of products is particularly suitable for the fluids that contain gels, colloidal suspensions, or high suspended solids.

Highly retentive graded porosity design removes particles by size – larger particles by the more open outer layers and smaller particles by the tighter inner layers. The outer layers act as a pre-filter while the inner layers provide the absolute rating at the specified pore size. This efficiently spreads the contaminants throughout the media matrix, thereby, resulting in superior contaminant holding capacity, lifetime, and lower pressure drop as compared to other depth media cartridges.

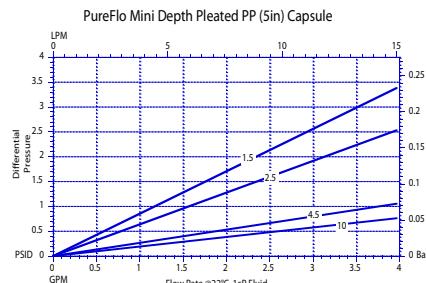
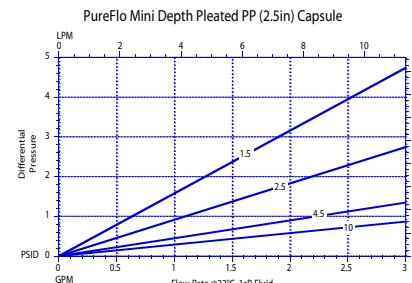
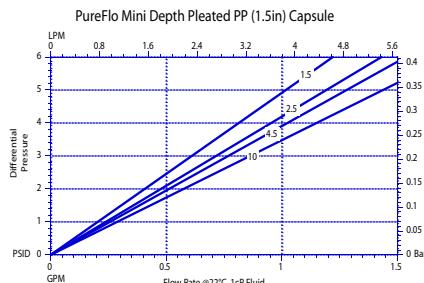
Specifications



Applications	
Clarification	Ink
Gel Removal	Beverages
Yeast Removal	Pharmaceuticals
Fine Chemicals	Biologics
Plating Solutions	Wine
Beer	Water

Materials of Construction:	Media: Non-Woven Polypropylene Media Supports: Polypropylene Cage, Core, End Caps: Polypropylene Sealing: Thermally bonded
Fitting Connections:	See ordering guide for the availability. (Custom adaptors available upon request)
Nominal Dimensions:	Lengths: 1.5", 2.5", 5", 7.5" and 10" Diameter: 2.75 in. (70mm)
Available Ratings:	0.5um, 1.0um, 1.5um, 2.5um, 4.5um, 10um, and 20um
Operating Conditions:	Maximum Operating Pressure: Liquid: 5.5 bar (80psi) at 77°F/25°C Gas: 4.1 bar (60psi) at 77°F/25°C Maximum Forward Differential Pressure: 4.21 bar (60psi) at 68°F/20°C Maximum Reverse Differential Pressure: 2.1 bar (30 psi) at 68°F/20°C Minimum Burst Pressure: 8.3 bar (120psi) at 77°F/25°C Maximum Operating Temperature: 176°F (80°C)
Regulatory Compliance:	The filters are constructed with polypropylene resins and filtration media in compliance with 21CFR Part 177 of the US Code of Federal Regulations and USP Class VI Biological Test for Plastic.

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Specifications (cont.)

Sanitization:

The filters can be sterilized by autoclaving for up to 25 cycles at 125°C (250°F) for 60 minutes. The filters can also be sanitized by steam-in-place procedure at 135°C (275°F) for three 20 minute cycles at less than 0.3 bar differential pressure. The filters are also sanitized by hot water or common chemicals that are compatible with polypropylene.



Internal Cross Section

PureFlo Mini Depth Pleated PP Filter Capsule Ordering Guide

PureFlo Capsule Filters	Filter Media	Pore size (Micron)	Length	Input Fitting	Output Fitting	Options	
SK 70mm Diameter Capsule	DP = Depth PolyPro Media	002 = 0.2um 005 = 0.5um 010 = 1.0um 015 = 1.5um 025 = 2.5um 045 = 4.5um 100 = 10um 200 = 20um	H = 1.5" S = 2.5" L = 5" E = 7.5" K = 10" K = 10"		1H = 1/8" Hose barbs 1NF = 1/8" FNPT 1Q = 1/8" Male Quick Coupling for Metal latch 1QF = 1/8" Female Quick Coupling w/Metal latch 2C = 1/4" Compression 2H = 1/4" to 1/2" Hose barbs 2HS = 1/4" to 3/8" Hose barbs 2LF = Large Female Luer Lock fitting 2N = 1/4" MNPT 2NF = 1/4" FNPT 2Q = 1/4" Male Quick Coupling for Metal latch 2QF = 1/4" Female Quick Coupling w/Metal latch 2QFP = 1/4" Female Quick Coupling w/Plastic latch 2QP = 1/4" Male Quick Coupling for Plastic latch 3C = 3/8" Compression 3H = 3/8" Hose Barb 3HE = 3/8" Hose Barb Elbow 3NF = 3/8" FNPT 4C = 1/2" Compression 4H = 1/2" Hose Barb 4N = 1/2" MNPT 4QP = 1/2" Male Quick Coupling for Plastic latch MT = 1/2" Tri clamps TC = 1-1/2" Tri clamp	1H = 1/8" Hose barbs 1NF = 1/8" FNPT 1Q = 1/8" Male Quick Coupling for Metal latch 1QF = 1/8" Female Quick Coupling w/Metal latch 2C = 1/4" Compression 2H = 1/4" to 1/2" Hose barbs 2HS = 1/4" to 3/8" Hose barbs 2LF = Large Female Luer Lock fitting 2N = 1/4" MNPT 2NF = 1/4" FNPT 2Q = 1/4" Male Quick Coupling for Metal latch 2QF = 1/4" Female Quick Coupling w/Metal latch 2QFP = 1/4" Female Quick Coupling w/Plastic latch 2QP = 1/4" Male Quick Coupling for Plastic latch 3C = 3/8" Compression 3H = 3/8" Hose Barb 3HE = 3/8" Hose Barb Elbow 3NF = 3/8" FNPT 4C = 1/2" Compression 4H = 1/2" Hose Barb 4N = 1/2" MNPT 4QP = 1/2" Male Quick Coupling for Plastic latch MT = 1/2" Tri clamps TC = 1-1/2" Tri clamp	-GP = Gamma stable polypropylene shell -NY = Nylon Construction -FB = Filling bell -FC = Filling bell w/Cap -ETO = Ethylene oxide sterilization -NI = No vent or drain inlet fitting -NO = NO vent or drain outlet fitting -E = Polyethylene shell and HDPE media support for gamma sterilization O-Ring for Quick Coupling -OE = O-ring EPDM -ON = O-ring Nitrile -OV = O-ring Viton Blank = O-ring Silicon (Standard)

Example - SK Series Capsule, 2.5" Internal filter, 10 micron Depth PolyPropylene Media Capsule, Standard Grade, with 1.5" Tri-Clamp fittings would be SKDP100STCTC

Quick Couplings are molded, Female Quick Coupling with Plastic latch will be threaded on, compatible with CPC (Colder), LinkTech and others.

