

PureFlo® Polypro Mini Filter Cartridges

PureFlo® polypropylene mini filter cartridges are highly retentive graded porosity polypropylene media filters that have been specially designed for clarification and prefiltration applications.

The graded porosity design removes particles in sequence by size exclusion – 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 resulting in superior contaminant holding capacity, lifetime, and pressure drop as compared to other media cartridges. No adhesives, binders, or surfactants are used in the manufacturing process. The nonwoven media does not allow for migration into the process fluid, thereby reducing the potential for extractables and downtime. Furthermore, the polypropylene construction provides excellent thermal and chemical compatibility with low and high pH chemicals.

PureFlo polypropylene mini filter cartridges are absolute rated to ensure consistent filter performance each and every time out of the package at 0.3, 0.6, 1, 3, 5, 7, 10, 30, 50 and 70 microns.

Applications	
Acids	Ink Jets
Bases	Beverages
Solvents	Pharmaceuticals
Fine Chemicals	Biologics
Plating Solutions	Dyes
Process Water	Parts Cleaning

Regulatory Compliance

Manufactured from materials that conform to the requirements of 21CFR Part 177 of the U.S. Code of Federal Regulations and USP Class VI Biological test for Plastics

Retrofits Code 2230, 4463, 4440 & SLK



Materials of Construction

- Media: Graded Porosity Non-Woven Polypropylene
- Media Supports: Polypropylene
- Cage, Core, End Caps: Polypropylene
- O-Rings: Silicone, EPDM, Fluoroelastomer, Buna N

Dimensions (nominal)

- Lengths: 1.5in (38mm), 2.5 in (75 mm), 5 in. (135 mm)
- Diameter: 2.2 in. (56 mm)

Effective Filtration Area

- 0.59 ft² (550 cm²) per 1.5" cartridge
- 1.3 ft² (1200 cm²) per 2.5" cartridge
- 2.368 ft² (2200 cm²) per 5.0" cartridge

Operating Conditions

- Maximum Forward Differential Pressure:
 - 4.1 bar (60 psid) at 68°F/20°C
 - 2.0 bar (29 psid) at 176°F/80°C
- Maximum Reverse Differential Pressure:
 - 2.0 bar (29 psid) at 68°F/20°C
 - 1.0 bar (14.5 psid) at 176°F/80°C
- Maximum Operating Temperature: 176F/80°C

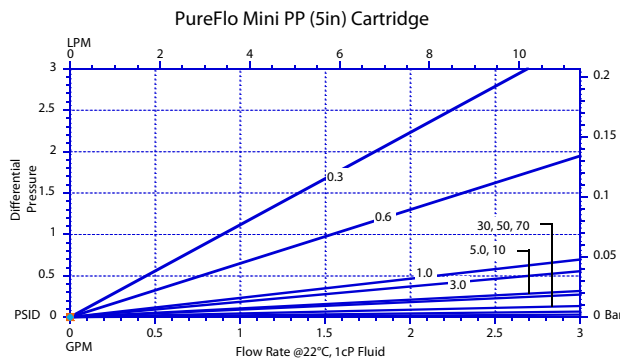
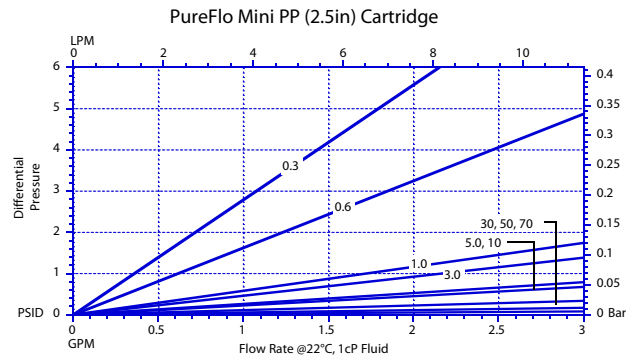
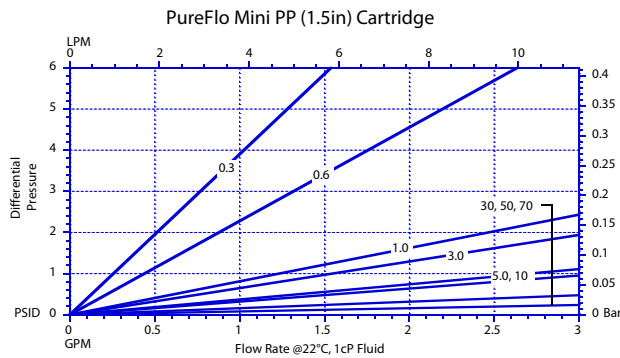
Sterilization & Autoclaving

The filters can be sterilized by autoclaving for up to 25 cycles at 257°F/125°C. The filters can also be sterilized by steam-in-place procedure up to 5 cycles at 275°F/135°C for 30 minutes at less than 0.3 bar differential pressure. The filters can also be sanitized by hot water or common chemicals that are compatible with filter components.

Features	Benefits
Graded Porosity Pleated Polypropylene Media	Media matrix removes particles in sequence by size- larger particles by the more open outer layers and smaller particles by the tighter inner layers High flow rates and low pressure drops Superior filter lifetime and process throughputs
100% Polypropylene Construction	Excellent thermal and chemical compatibility No media migration
Absolute-Rated Filter Performance	Consistent and reproducible particulate removal
Low Filter Extractables	No adhesives, binders, or surfactants used Excellent downstream cleanliness reduces startup time



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Flange End Modification

PureFlo Polypropylene Mini Filter Cartridge Ordering Guide

PureFlo Mini PP Filter Cartridges	Removal Rating	End Modifications	Length	O-Ring / Gasket Materials	Package Qty
NMP = Mini PP Cartridge	003 = 0.3um	A = 116 Inner O-Ring	H = 1.5"	E = EPDM	2P = 2pc/ pack (5")
	006 = 0.6um	C = 015 O-Ring	S = 2.5"	N = Buna N	3P = 3pc/ pack (1.5" and 2.5")
	010 = 1.0um	D = 1/2" MNPT	L = 5"	S = Silicone	
	030 = 3.0um	E = 118 O-Ring		V = Viton	
	050 = 5.0um	F = Flange*		O = O-Ringless	
	070 = 7.0um	M = 123 O-Rings**			
	100 = 10 um	N = 116 Inner Housing Seal			
	300 = 30 um	S = 116 Internal O-Ring w/Locking Groove			
	500 = 50 um				Option
	700 = 70 um				- 5 = SS Insert
Example - A 3 pack of 2.5", 3 micron filters with 116 Internal EPDM o-ring would be NMP030ASE3P					
* - F end modification is compatible to fit in a PALL SealKor™ Housing, ** - M end modification is compatible to fit in a Millipore OptiSeal™ Housing					

