



## PureFlo® Polypro Filter Cartridges

PureFlo® polypropylene 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– larger particles by the more open outer layers and smaller particles by the tighter inner layers. The outer layers act as a prefilter 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 migration into the process fluid, thereby reducing the potential for extractables and downtime. Furthermore, the all polypropylene construction provides excellent thermal and chemical compatibility with low and high pH chemicals.

PureFlo polypropylene filter cartridges ensure consistent filter performance each and every time out of the package.



### Materials of Construction

Media: Non-Woven Polypropylene  
 Media Supports: Polypropylene  
 Cage, Core, End Caps: Polypropylene  
 O-Rings: Silicone, EPDM, Viton, Buna N, TES, TEV

### Dimensions (nominal)

Lengths: 5 in. (13 cm), 10 in. (25 cm), 20 in. (50 cm), 30 in. (76 cm), 40 in. (102 cm)  
 Diameter: 2.75 in. (7 cm)

### Effective Filtration Area

0.6 m<sup>2</sup> (6.4 ft<sup>2</sup>) per 10" cartridge element

### Operating Conditions

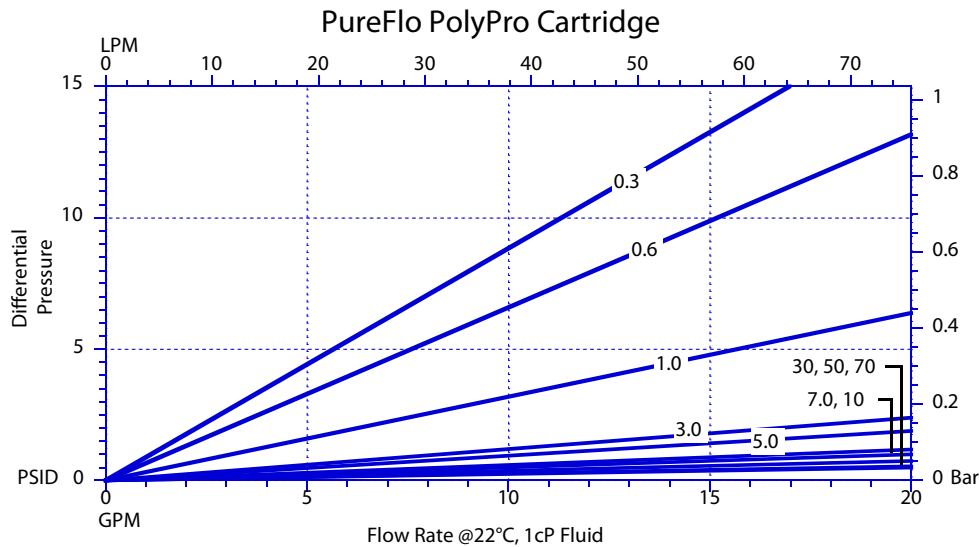
Maximum Forward Differential Pressure:  
 5.0 bar (72.5 psid) at 20° C  
 2.0 bar (29 psid) at 80° C  
 Maximum Reverse Differential Pressure:  
 3.0 bar (43.5 psid) at 20° C  
 1.0 bar (14.5 psid) at 80° C  
 Maximum Operating Temperature: 80C

Applications	
Acids	Ink Jets
Bases	Electronics
Solvents	Pharmaceuticals
Fine Chemicals	Biologics
Plating Solutions	Dyes
Parts Cleaning	Lacquers

Features	Benefits
Graded Porosity Pleated Polypro 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	Provides excellent compatibility with a widerange of chemicals such as acids, bases and solvents No media migration into the process fluid
Low Filter Extractables	No adhesives, binders, or surfactants are used during manufacturing resulting in superior downstream cleanliness All cartridges are rinsed with highpurity water to reduce extractables and downtime
High Performance Filtration	Consistent and reproducible particulate removal



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### 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.

### 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 steaming-plate 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.

### PureFlo Polypro Filter Cartridge Ordering Guide

PureFlo Polypro Media	Pore Size (micron)	Connections	Length	Gasket / O - Ring Materials	Package Quantity	Inserts
NCP	03 = 0.3 06 = 0.6 10 = 1.0 30 = 3.0 50 = 5.0 70 = 7.0 1X = 10 2X = 20 3X = 30 5X = 50 7X = 70 10X = 100 15X = 150	0 = 222 O-Ring Flat 5 = 222 O-Ring Spear 6 = 226 O-Ring Flat 7 = 226 O-Ring Spear F = DOE Flat Gasket S = SOE Flat Gasket Z = SOE Internal 213 O-Ring Flat **	1 = 10" 2 = 20" 3 = 30" 4 = 40" 5 = 5" 9 = 9.75"	E = EPDM N = Buna N S = Silicone V = Viton T = TEV * U = TES *	1 = 1 per pack 6 = 6 per pack	Blank = Standard -5 = Stainless Steel Insert

Example - 10", 1.0 micron, with 2-222 EPDM O-Rings/Spear Cap and no insert would be NCP1051E1

\* - not available in Code Z    \*\* - only available in 5", 10", and 20"



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