PureFlo® Polypro Media Cartridges

PureFlo® Polypro Media Cartridges are highly retentive, graded porosity polypropylene media filters that have been specially designed for clarification and pre-filtration 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 pre-filter while the inner layers provide the absolute rating at the specified pore size. This design 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 non-woven 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.

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

Materials of Construction:

Media: Polypropylene Media (non-woven)
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. (51 cm), 30 in. (76 cm), 40 in. (102 cm)
Diameter: 2.75 in. (70 mm)

Effective Filtration Area:

0.5 m^2 (5.4 ft^2) per 10" cartridge element

Operating Conditions:

Maximum Forward Differential Pressure:
5.0 bar (72.5 psid) at 22° C
2.0 bar (29 psid) at 80° C
Maximum Reverse Differential Pressure:
3.0 bar (43.5 psid) at 22 °C
1.0 bar (14.5 psid) at 80 °C
Maximum Operating Temperature: 80 °C

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 wide-range of chemicals such as acids, bases and solvents ■ No media migration into the process fluid
■ Low levels of Filter Extractables	■ No adhesives, binders, or surfactants are used during manufacturing resulting in superior downstream cleanliness ■ All cartridges are rinsed with high-purity water to reduce extractables and downtime
■ High Performance Filtration	■ Consistent and reproducible particulate removal

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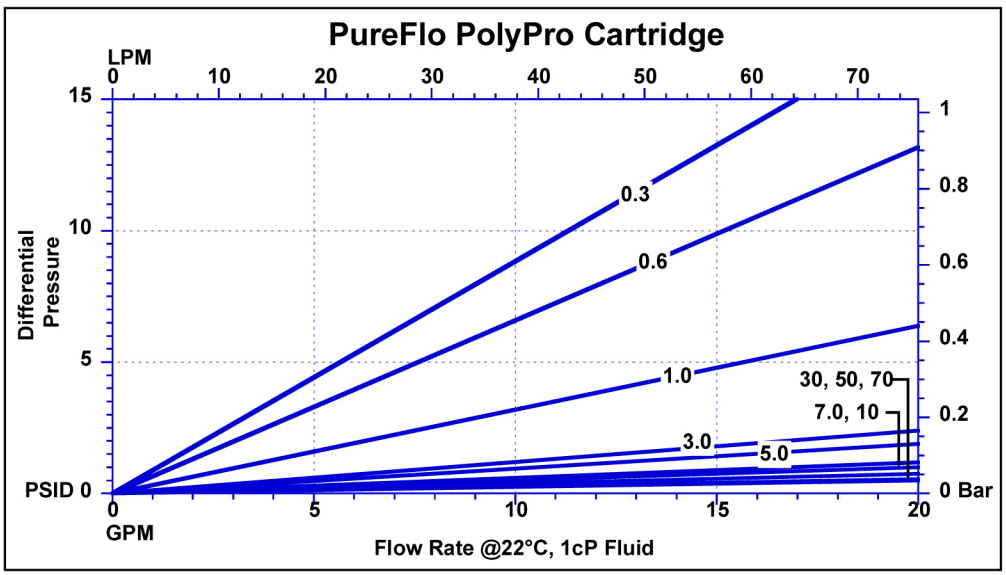

Regulatory Compliance:

Manufactured from materials that conform to the requirements of 21 CFR 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 125 °C (257 °F) for 30min. The filters can also be sterilized by steam-in-place procedure up to 5 cycles at 135 °C (275 °F) for 30 minutes at less than 0.3 bar (4.35 psi) differential pressure. The filters can also sanitized by hot water or common chemicals that are compatible with filter components.

PureFlo® Polypro Cartridge Ordering Guide

PureFlo Polypropylene Filter Cartridges	Removal Rating	End Modifications	Length	O-Ring / Gasket Materials	Package Qty	Inserts
NCP = Polypropylene	**03** = 0.30 micron(0.2um in gas at 99.98%) **06** = 0.60 micron (0.2um in gas at 99.83%) **10** = 1 micron **30** = 3 micron **50** = 5 micron **70** = 7 micron **1X** = 10 micron **2X** = 20 micron **3X** = 30 micron **5X** = 50 micron **7X** = 70 micron **10X** = 100 micron **15X** = 150 micron	**0** = 222 O-Ring Flat **3** = 222 O-Ring w/tabs Spear **5** = 222 O-Ring Spear **6** = 226 O-Ring Flat **7** = 226 O-Ring Spear **8** = 223 O-Ring Flat **B** = 1.5" Tri-Clamp Flat **F** = DOE Flat Gasket **S** = SOE Flat Gasket **Y** = DOE Internal O-ring Flat ** **Z** = SOE Internal O-ring Flat **	**1** - 10" **2** - 20" **3** - 30" **4** - 40" **5** = 5" **9** = 9.75"	**E** = EPDM **N** = Buna N **P** = Peroxide Cured EPDM **Q** = Platinum Cured Silicon **S** = Silicone **T** = TEV or FEP Gasket **U** = TES* **V** = Fluoroelastomer **O** = No O-ring	**1** = 1pc/ pack **6** = 6pc/ pack (for10" and 20" only)	**Blank** = Standard **-5** = Stainless Steel Insert
Example - PP Mediae filter, 10", 3 micron cartridge, with 2-222 Silicone o-ring, Flat end cap, and no insert would be **NCP3001S1**						

* - not available in Code Z ** - only available in 5", 9.75", 10" and 20", retrofit for DOE housings

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