International Filter Products
Revolutionary systems for your industry

PureFlo® Polypro Mini Cartridges

PureFlo® Polypro Mini 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 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 an absolute rating at the specified pore size. This variation 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 for 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® Polypro Mini 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 21 CFR Part 177 of the U.S. Code of Federal Regulations and USP Class VI Biological test for Plastics

Materials of Construction:

Media: Graded Porosity Polypropylene (non-woven)
Media Supports: Polypropylene
Cage, Core, End Caps: Polypropylene
O-Rings: Silicone, EPDM, Fluoroelastomer, Buna N

Dimensions (nominal):

Lengths: 1.5in (38 mm), 2.5 in (63.5 mm), 5 in. (127 mm)
Diameter: 2.2 in. (56 mm)

Effective Filtration Area:

0.59 ft^2 (550 cm^2) per 1.5" cartridge
1.3 ft^2 (1210 cm^2) per 2.5" cartridge
2.368 ft^2 (2200 cm^2) per 5.0" cartridge

Operating Conditions:

Maximum Forward Differential Pressure:
4.1 bar (59.5 psid) at 20 °C
2.0 bar (29 psid) at 80 °C
Maximum Reverse Differential Pressure:
2.0 bar (29 psid) at 20 °C
1.0 bar (14.5 psid) at 80 °C
Maximum Operating Temperature: 80 °C

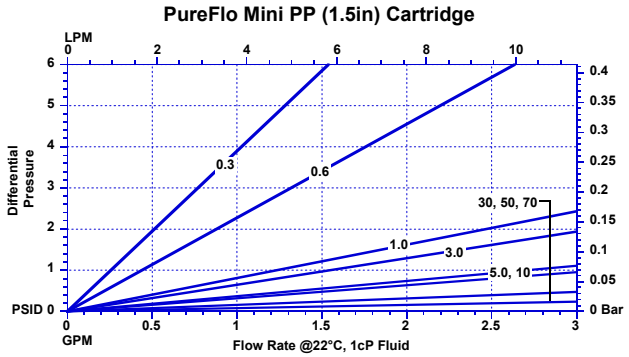
Sterilization & Autoclaving:

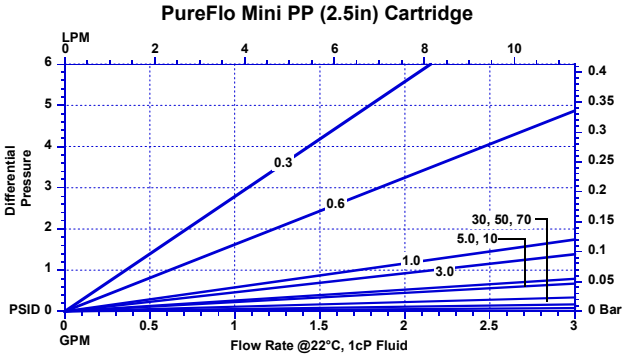
The filters can be sterilized by autoclaving for up to 25 cycles at 125 °C (257 °F) for 30 minutes. The filters can also be sterilized by steam-in-place procedure up to 5 cycles at 135 °C (275 °F) for 30 minutes at less than 0.3 bar (4.35 psi) differential pressure. The filters can also sanitized by hot water or common chemicals that are compatible with filter components.

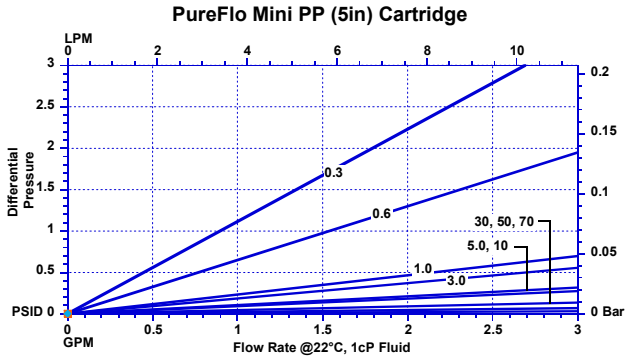
Retrofits Code 2230, 4463, 4440 & SLK

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 Levels of Filter Extractables	■ No adhesives, binders, or surfactants used ■ Excellent downstream cleanliness reduces start-up time

PureFlo® Polypro Mini Cartridges







Flange End Modification

PureFlo® Polypro Mini Cartridge Ordering Guide

PureFlo Mini PP Filter Cartridges	Removal Rating	End Modifications	Length	O-Ring / Gasket Materials	Package Qty
NMP = Mini PP Pleated Media Cartridge	003 = 0.3um 006 = 0.6um 010 = 1.0um 030 = 3.0um 050 = 5.0um 070 = 7.0um 100 = 10 um 300 = 30 um 500 = 50 um 700 = 70 um	0 = 222 O-Ring Flat 6 = 226 O-Ring Flat A = 116 Inner O-Ring B = 1.5" Tri-Clamp C = 015 O-Ring D = 1/2" MNPT E = 118 O-Rings F = Flange* G = 1/2" Tri-Clamp M = 123 O-Rings with hold down tabs** N = 116 Inner Housing Seal P = 118 O-Rings with hold down tabs S = 116 Inner O-Ring with locking groove T = 126 O-Rings with locking tabs***	H = 1.5" S = 2.5" L = 5"	E = EPDM N = Buna N S = Silicone T = TEV U = TES V = Fluroelastomer O = O-Ringless	2P = 2pc/ pack (5") 3P = 3pc/ pack (1.5" and 2.5") Option -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 SealKleen™ Housing, **-M end modification is compatible to fit in a Millipore Opti Seal™ Housing,
***-T end modification is compatible to fit a Parker Trueseal™ Housing

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ISO Certified 9001 14001

TÜV MANAGEMENT SERVICE ISO 13485

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