

## PP3 POLYPROPYLENE FILTER SERIES

### High Efficiency Polypropylene Filter Cartridge

An innovative product manufactured with multiple layers of melt blown polypropylene media. This unique structure allows high flow rates while maintaining low differential pressure and ideal depth filtration characteristics.

#### Filter Features – Benefits

- Micron ratings from 0.1 to 10 $\mu$  - broad application range
- Meets current USP Class VI biological test for plastics
- FDA listed materials of construction
- High filtration efficiency: 95%
- Graded pore structure – multilayer media for high dirt holding capacity
- Fixed pore construction – resists dirt unloading at maximum differential pressure
- Polypropylene construction – inert to many process fluids
- Various gasket/o-ring materials – compatible with many fluids

#### FILTER SPECIFICATIONS

Construction material:	Polypropylene
<b>Gaskets/o-rings:</b>	Buna-N, EPDM, Silicone, Viton, Teflon Encapsulated Viton (o-rings only)
<b>Micron rating:</b>	0.1, 0.2, 0.4, 0.6, 1.0, 3.0, 5.0, and 10 $\mu$
<b>Dimensions and Operating Parameters</b>	
<b>Nominal lengths:</b>	9.75", 10", 20", 30", 40" (24.7, 25.4, 50.8, 76.2, 101.6 cm)
<b>Outside diameter:</b>	2.7" (6.86 cm)
<b>Inside diameter:</b>	1" (2.54 cm)
<b>Max. Operating temperature:</b>	176° F (80° C)
<b>Max. Differential pressure:</b>	80 psid @ 70° F (5.5 bar @ 21° C) 40 psid @ 176° F (2.8 bar @ 80° C)
<b>Recommended change out pressure:</b>	35 psid (2.4 bar)
Maximum reverse differential pressure:	40 psid @ 70° F (2.8 bar @ 21° C)



#### Filter Removal Efficiency

Beta Ratio Efficiency	Beta 100	Beta 20
0.1 micron	0.8	0.1
0.2 micron	1.0	0.2
0.4 micron	2.0	0.4
0.6 micron	3.0	0.6
1.0 micron	6.0	1.0
3.0 micron	14	3.0
5.0 micron	17	5.0
10.0 micron	25	10.0

#### Applications:

- Food & beverage
- DE trap
- Aqueous solutions
- Pharmaceuticals
- Ultrapure Water
- RO Prefilters
- Chemicals
- Photoresists
- Cosmetics
- Ink

**FDA Compliance:** All materials comply with FDA title 21 of the Code of Federal Regulations as applicable for food and beverage contact.

**Sanitization:** Hot water at 176° F (80° C) at 5 psid (0.35 bar) for 30 min. In-line steam at 257° F (125° C) at 1 psid (0.07 bar) for 30 min. Autoclavable at 257° F (125° C) for 30 minutes

PP3 Nomenclature Information				
PP3	-0.6	-10	P2	T
Filter type PP3 Series Filters		Nominal Length (inches)	End Configuration	Gasket or o-ring
Retention Rating (micron)		-9.75	P Double Open End	S Silicone
0.1		-10	P2 226/Flat single open end	B Buna-N
0.25		-20	P3 222/Flat single open end	E EPDM
0.4		-30	P7 226/Fin single open end	V Viton
0.6		-40	P8 222/Fin single open end	T Teflon encap. Viton (o-rings only)
1			PX Extended Core	
3			AM Single open end, internal o-ring	
5			NPC Double open end, internal o-ring	
10				

Example: PP3-0.6-10P2T

