PolyPure-Classic PP Series

Membrane Solutions

Description

MS PolyPure-Classic is a pleated depth filter made from multiple layers of 100% meltblown and spunbonded polypropylene fibers. Combined with it's high surface area and heavy duty construction, the PolyPure-Classic provides high flow rates, exceptional life and durability.



Features & Benefits

- Available pore sizes from 0.2 to 100µm - broad range of application
- 90% efficiency rating - high efficiency that is reliable and consistent.
- 100% polypropylene - broad chemical compatibility.
- No adhesives or binders - ensures purity of filtrate.
- Fixed pore construction - prevents unloading as differential pressure increase.
- Gradient pore sizes media layering - maximizes dirt holding capacity.
- Various sealing materials - compatible with many fluids.
- Optional 18 MΩ flush adder available.

Typical Applications

- Pre-filtration
- Pre-RO
- Clarification
- Ultrapure water
- Pharmaceuticals
- Cosmetics
- Solvents
- Acids
- Bases
- Food & Beverage
- Inks
- Fine chemicals

Certifications

- USP Class VI: Meets USP Class VI Biological Test for Plastics
- FDA listed Materials: All materials comply with FDA Title 21 of the Code of Federal Regulations Sections 174.5, and 177.1520, as applicable for food and beverage contact.

Specifications

Materials of Construction	
Filter Media	Polypropylene
Support Layers	Polypropylene
Support Hardware	Polypropylene
Core	Polypropylene/ Glass fiber reinforce Polypropylene
End Caps	Polypropylene/ SS 316L
Sealing	Silicone/ EPDM/ FKM/ NBR/ PFA Encapsulated FKM/ PFA encapsulated Silicone
Contains no adhesives	

Filter Dimensions	
Outer Diameter	2-11/16in (68mm)
Inner Diameter	1-1/4in (33mm)
Nominal Length	10in (250mm), 20in (500mm) 30in (750mm), 40in (1000mm)

Steam Sterilization
121°C/250°F for 30 min

Micron Ratings
0.20µm, 0.50µm, 0.65µm, 1.0µm, 3.0µm, 5.0µm, 10µm, 20µm, 30µm, 50µm, 70µm, 100µm

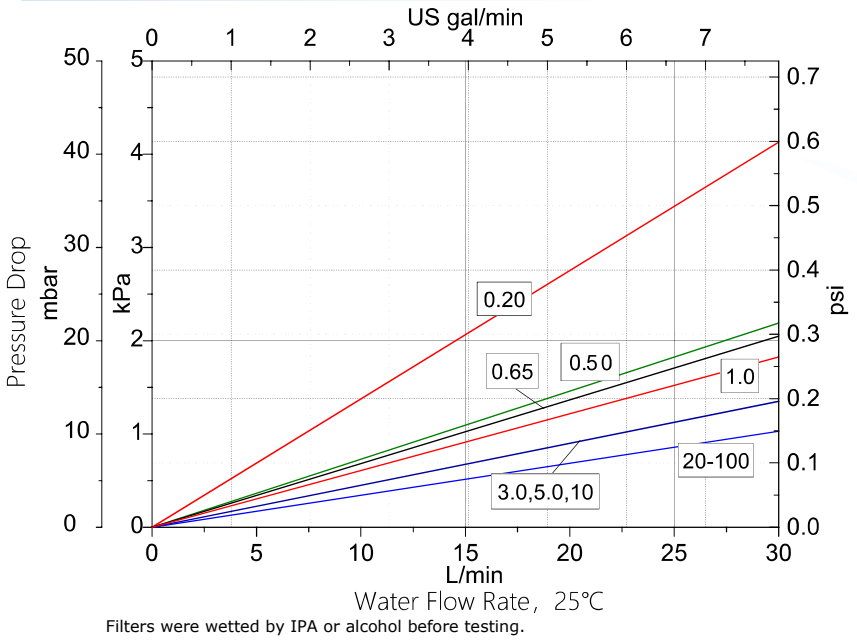
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PolyPure-Classic Performance Data

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Operating Parameters				
Temperature	Max. Forward dP			Max. Reverse dP
	PP	Reinforced PP	GF Reinforced PP	
20°C/68°F	690kPa/100psi	690kPa/100psi	690kPa/100psi	450kPa/65psi
40°C/104°F	600kPa/87psi	690kPa/100psi	690kPa/100psi	400kPa/58psi
60°C/140°F	360kPa/52psi	690kPa/100psi	690kPa/100psi	350kPa/51psi
80°C/176°F	270kPa/39psi	500kPa/72psi	690kPa/100psi	160kPa/23psi
90°C/194°F	250kPa/37psi	450kPa/65psi	690kPa/100psi	140kPa/20psi

Flow Rate-Pressure Drop



Filters were wetted by IPA or alcohol before testing.

Particle Removal Efficiency

Removal Rating	β = 10	β = 5
	90%	80%
0.2 µm	0.2	< 0.2
0.5 µm	0.5	0.2
0.65 µm	0.65	0.3
1.0 µm	1.0	0.4
3.0 µm	3.0	2.0
5.0 µm	5.0	4.0
10 µm	10	6.0
20 µm	20	15
30 µm	30	25
50 µm	50	30

Testing was conducted using the single-pass test method, water flow rate at 10 lpm(2.6 gpm)/10" cartridge filter. Contaminants included coarse and fine test dust. Removal efficiencies were determined using laser particle counters.

Part Number Matrix

Filter Media	Length	Pore Size	End Configuration	Orings and Seals	Core
PP: Polypropylene	005 = 5 inches 010 = 10 inches 020 = 20 inches 030 = 30 inches 040 = 40 inches	020 = 0.20µm 050 = 0.50µm 065 = 0.65µm 100 = 1.0µm 300 = 3.0µm 500 = 5.0µm H10 = 10µm H20 = 20µm H30 = 30µm H50 = 50µm H70 = 70µm T10 = 100µm	0 = DOE 2 = 222/Flat 3 = 222/Fin 4 = 222/Fin w/ SS insert 5 = 226/Fin w/ SS insert 6 = 226/Fin 7 = 226/Flat	S = Silicone E = EPDM V = FKM N = NBR PV = PFA Encapsulated FKM PS = PFA Encapsulated Silicone	Blank = PP T=Reinforced PP R=GF Reinforced PP

Contact Membrane Solutions or your local distributor for flush options

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