

TrioPro[®] Series Polypropylene Pleated Filter Cartridge



TrioPro[®] is the choice for wide range of application and comes with wide range of standard package that fits majority of standard industrial filter housing. The cartridge comes in with standard retention rating of between 0.2 and 60 micron, is a high performance pleated filter cartridge with very large filter area (typically 0.6~0.7m² for every 10" in filter length), the filter material is constructed of melt-blown polypropylene micro-denier fiber media and its three layer design including a coarser inner and outer supporting filter membrane resulted in very good mechanical properties for the filter.

TrioPro[®] Series Recommended Applications

- Terminal Polished Filtration for ultra-pure Water (deionized water) system
- Filtration of solvents for display, semiconductor, electronic industries such as CD, DVD manufacturing
- Perfectly safe for beverage process including beer, soft drinks and mineral water systems
- Filtration of low to medium viscosity chemical including photographic processing
- Final Polished filtration for medical and pharmaceutical application
- High purity chemical liquid filtration

TrioPro[®] Series Advantage

- 100% polypropylene material for good Chemical compatibility with wide range of chemicals
- Pleated design with more filter area for increased contaminant level, high flow rate and less pressure drop
- Pre-flush with 18 M ohm-cm DI water for fast rinse up of de-ionized water, TOC content is lower than 40ppb
- Entire construction including end caps and inner core are thermally bonded together and free of binder agents.
- Integrity test available upon request
- End cap configuration to fit most industrial housings

Product Specifications

Micron Ratings

0.2, 0.45, 1, 3, 5, 10, 30, 60 μm Absolute

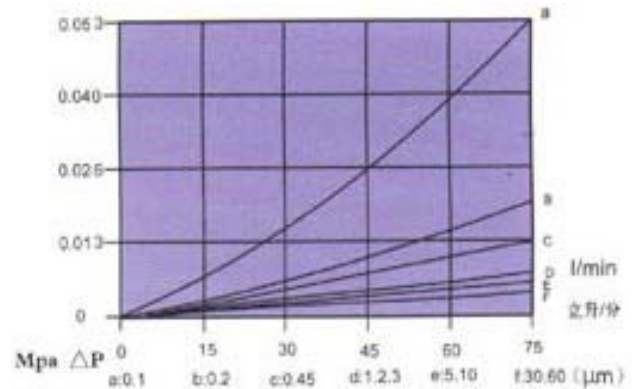
Standard Dimensions

Inner Diameter: 28mm

Outer Diameter: 69mm

Length: 127mm, 254mm, 508mm, 762mm, 1016mm

Effective Filter area: 0.60 ~ 0.70 m^2 per 254mm in filter length



Media of membrane

100% pure melt blown micro-denier polypropylene fiber

Inner and outer core

High strength Polypropylene

Gasket and O ring Materials

Buna N, Silicone, Viton

Maximum Differential Pressure

0.42 MPa @ 25°C; 0.28 MPa @ 60°C

Maximum Operating Temperature

88 °C @ 0.28 MPa; 60°C @ 0.42 MPa

Maximum Sterilizing Temperature

Dry Sterilizing Cabinet 120°C, 0.1 MPa; Steam Sterilizing Cabinet 134°C, 30 minutes

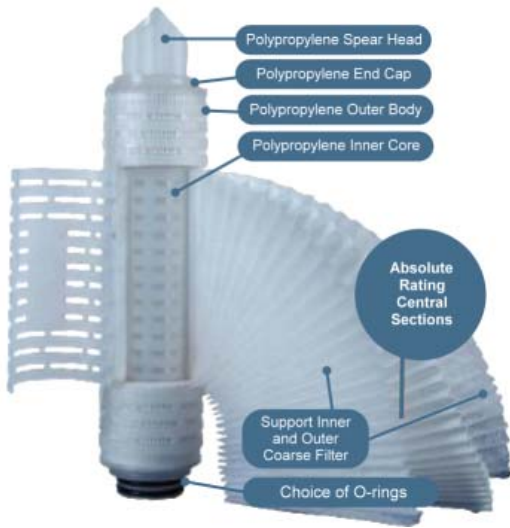
Water Flowrate Specifications

See Chart on the right for 10 inch cartridge

Material Toxicity

FDA approved materials for food and beverage direct contact

TrioPro® Series of Construction



The three layers structure and high surface area of the TrioPro series filter enable both longer service filter life, high flow rate and small pressure drop without risk of filter collapse. The series offer wide range of endcap configuration as shown below for all standard industrial housing. Length of filter available for upto 40 inch.

Type No. A Type No. B Type No. C Type No. D



Double plate open
OD69mm ID 28mm



Double plate seal
OD 69mm ID 28mm



222 O-ring /end cap
OD: 44.5mm



222 O-ring/stainless steel
OD: 44.5mm

Type No. E Type No. F Type No. G Type No. H



226 O-ring / end cap
OD: 57mm
(Two O-ring with fin)



226 O-ring / stainless steel
OD: 57mm
(Two O-ring with fin)



223O-ring / end cap
OD: 44.5mm
(Two O-ring with three fin)



Spear End Cap
(Fin)

Ordering Information

PLPFF-PP - A02 - 10 - A - S

	Perfect Filter TrioPro Series	Retention Rating (μm)	Length (inch)	End Cap Type (see Form A)	Gasket Material
		A02 = 0.20 μm		A= Double Plate Open	N: Buna N
		A45 = 0.45 μm	05 = 5"	B= Double Plate Seal	S: Silicone
		001 = 1 μm	10 = 10"	C= 222/Flat	V: Viton
		003 = 3 μm	20 = 20"	CS= 222/Fin	
		005 = 5 μm	30 = 30"	D= 222(stainless Steel)	
		010 = 10 μm	40 = 40"	E= 226/Flat	
		030 = 30 μm		ES= 226/Fin	
		060 = 60 μm		F= 226(Stainless Steel)	
				G= 223/Flat	
				GS= 223/Fin	

Packing Length	pc/case
5"	16
10"	16
20"	16
30"	16
40"	16

For more information, please contact *Perfect Life International Limited* at:

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