

## PPE-Series Economy Grade Pleated Polypropylene

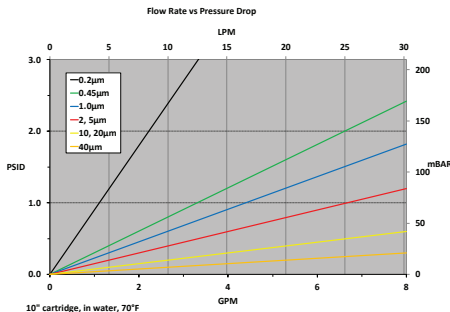
PPE-Series High Purity Economy Grade Pleated Polypropylene Filter Cartridges provide an economical, 100% polypropylene element for removal of fine or coarse particulate from fluid streams.

The pleated depth media is encapsulated in an integral, continuous length, thermally-bonded structure for cleanliness, pressure tolerance, and chemical inertness. Offered in both absolute rated (up to 99.98% retention) and nominally rated (90% retention) grades in common adapter configurations.

Manufactured in a clean-room environment to maintain high standards of purity and cleanliness.



### Flow Rate vs Pressure Drop



\*All data is based on absolute rated medias. Nominally rated medias will result in a pressure drop reduction of approximately 10%.

### Typical Applications

- Food & Beverage
- Deionized Water
- R.O. Pre-Filtration
- Process Water
- Fine Chemicals
- Plating Chemicals
- Wastewater
- Pharmaceutical Prefiltration

### Ordering Information

PPE	Rating(µ)	Retention	Length	C	End Cap Style	O-Rings/Gaskets	-	Adders
	0.2	A = Absolute	10" (25.4cm)		2 = DOE Flat Gasket <sup>1 2</sup>	B = Buna		CS = 316SS Compression Spring
	0.45	N= Nominal	20" (50.8 cm)		3 = 222 w/Fin	E = EPDM		FG = Glass Reinforced PP Core *
	1.0		30" (76.2 cm)		4 = 222 w/Flat Cap	S = Silicone		I = Stainless Steel Insert <sup>3</sup>
	2.0		40" (101.6 cm)		5 = 222 w/Spring	T = Teflon® Encapsulated Viton® <sup>1</sup> *		SS = Stainless Steel Core
	5.0					V = Viton® *		
	10.0					Z = Teflon® Encapsulated Silicone <sup>2</sup> *		
	20.0							
	40.0							

1 - When ordering with DOE Flat Gasket, gasket style "T" = ePTFE (Expanded Teflon® - no encapsulation)

2 - When ordering with DOE Flat Gasket, gasket style "Z" is not available

3 -Stainless Steel Insert (I) Adder comes standard with the Heavy Poly Core (HP) for elements constructed with a 222 end cap.

DISCLAIMER: Filtration data presented is representative of performance observed in controlled laboratory testing. It is not given as a warranty, specification or statement of fitness for use. Specific performance can vary widely depending on contaminant type, fluid properties, flow rates and environmental conditions. It is recommended that users conduct thorough qualification testing to assure the product functions as required. For additional technical support, a product Performance Guide is available upon request.

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### Construction Materials

**Filtration Media** .....Polypropylene  
**Support Media** .....Polypropylene  
**End Caps** .....Polypropylene  
**Center Core** .....Polypropylene  
**Outer Support Cages** .....Polypropylene  
**O-Rings/Gaskets** .....Buna, EPDM, Silicone  
 Teflon® Encapsulated Viton®<sup>1</sup>, Viton®,  
 Teflon® Encapsulated Silicone<sup>2</sup>

### Dimension (Nominal)

**Length** ..... 10 to 40 in (25.4 to 101.6 cm)  
**Outside Diameter** ..... 2.50 in (6.35 cm)

### Operating Conditions

**Change Out ΔP (recommended)** ..... 35 PSID (2.4 bar)  
**Temperature (max)** ..... 176°F (80°C)  
**Differential Pressure (max)** ..... 60 PSID at 68°F  
 (4.1 bar at 20°C)

### Toxicity

All polypropylene components meet the specifications for biological safety per USP Class VI – 121°C for plastics.

### Sanitization/Sterilization

**Filtered Hot Water** ..... 176°F (80°C) for 30 min  
**Steam Sterilization** ..... 250°F (121°C) for 30 min  
 multiple cycles

**Chemicals:** Cartridges are compatible with most chemical sanitizing agents.

**Note:** Stainless steel insert option required for all cartridges being hot water sanitized or steam sterilized.

### Food Safety Compliance

Materials of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulations, 21CFR. Materials used to produce filter media and hardware are deemed safe for use in contact with foodstuffs in accordance with EU Directives 1935/2004, and/or 10/2011.



NSF Certification applies for use only with drinking water. Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified. Product options denoted with asterisk ( \* ) are not included in the Certification.