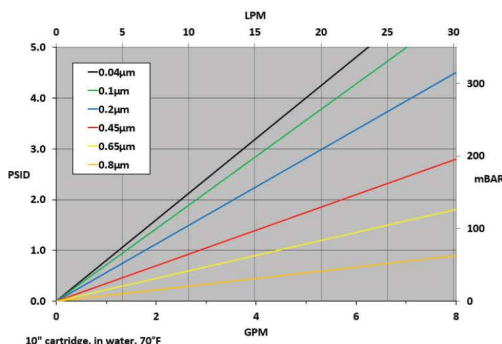


## WCPES-Series WaterClear™ Polyethersulfone

WCPES-Series High Purity WaterClear™ Polyethersulfone Filter Cartridges are a value-oriented choice for cost effective, general purpose membrane filtration. Designed in continuous lengths up to 30" for excellent performance value. The highly retentive polyethersulfone membrane offers excellent flux density and low protein-binding. The naturally hydrophilic membrane wets easily to allow for the maximum utilization of the surface area. These features allow the WCPES-Series to provide the fine performance of PES membrane at a competitive price. Designed to tolerate repeated hot water sanitization and in-situ steam sterilization cycles. Manufactured in a clean-room environment to maintain high standards of purity and cleanliness.



### Flow Rate vs Pressure Drop



### Typical Applications

- Deionized Water Systems
- General-Use Water Filtration
- Liquid Clarification
- Chemical Filtration

### Ordering Information

WCPES	Rating (µ)	A	Length	C	End Cap Style	O-Rings/Gaskets	-	Adders
	0.04		10" (25.4 cm)		2= DOE Flat Gasket	B = Buna		CS = 316SS Compression Spring
	0.1		20" (50.8 cm)		3= 222 w/ Fin	E = EPDM		I = Stainless Steel Insert <sup>1</sup>
	0.2		30" (76.2 cm)		4 = 222 w/ Flat Cap	S = Silicone		R = 18 Megaohm Rinse
	0.45		40" (101.6 cm)*		6 = 226 w/ Flat Cap	T = Teflon® Encapsulated Viton®		
	0.65				7 = 226 w/ Fin	V = Viton®		
	0.8				16 = 213 Internal O-Ring	Z = Teflon® Encapsulated Silicone		
					28 = 222 3-tabs w/ Fin			

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.

### Construction Materials

**Membrane**.....Polyethersulfone  
**Support Media**.....Polypropylene  
**End Caps**.....Polypropylene  
**Center Core**.....Polypropylene  
**Outer Support Cage**.....Polypropylene  
**O-Rings/Gaskets**.....Buna, EPDM, Silicone, Teflon® Encapsulated Viton®, Viton®, Teflon® Encapsulated Silicone

### 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.

<sup>1</sup> Stainless Steel Insert (I) Adder comes standard with the Heavy Poly Core (HP) for elements constructed with a 222 or 226 endcap.

### Dimensions

**Length:**  
 10 to 40 inches (25.4 to 101.6 cm) nominal  
**Outside Diameter:**  
 2.70 inches (7.0 cm) nominal  
 Cartridge Lengths: Lengths in Ordering Information table denoted with an asterisk(\*) are constructed with thermally-bonded 10" modules.

### Operating Conditions

**Change Out ΔP (recommended)**.....35 PSID (2.4 bar)  
**Temperature (max)**.....176°F (80°C)  
**Differential Pressure (max)**.....50 PSID (3.4 bar) at 68°F (20°C)

### Toxicity

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

### FDA Listed Materials

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.