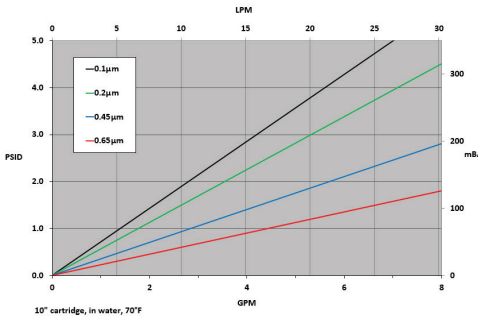
LENNTECH
Water Treatment Solutions

WCPES-Series WaterClear™ Polyethersulfone

WCPES-Series High Purity WaterClear™ Polyethersulfone Filter Cartridges are a value-oriented, reduced surface area 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

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.....80°C for 30 min.
Steam Sterilization.....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.

Dimensions

Length:
10 to 30 inches (25.4 to 101.6 cm) nominal
Outside Diameter:
2.70 inches (7.0 cm) nominal

Operating Conditions

Change Out ΔP (recommended.....35 PSID
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 2002/72/EC, 1935/2004, and/or 10/2011.

Ordering Information

WCPES	Rating (µ)	A	Length	C	End Cap Style	O-Rings/Gaskets	-	Adders
	0.1		10" (5.4 cm)		2= DOE Flat Gasket	B = Buna		CS = 316SS Compression Spring
	0.2		20" (50.8 cm)		3= 222 w/ Fin	E = EPDM		R = 18 Megaohm Rinse
	0.45		30" (76.2 cm)		4 = 222 w/ Flat Cap	S = Silicone		
	0.65				6 = 226 w/ Flat Cap	T = Teflon® Encapsulated Viton®		
					7 = 226 w/ Fin	V = Viton®		
					16 = 213 Internal O-Ring	Z = Teflon® Encapsulated Silicone		
					28 = 222 3-tabs w/ Fin			

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