

optimum filter

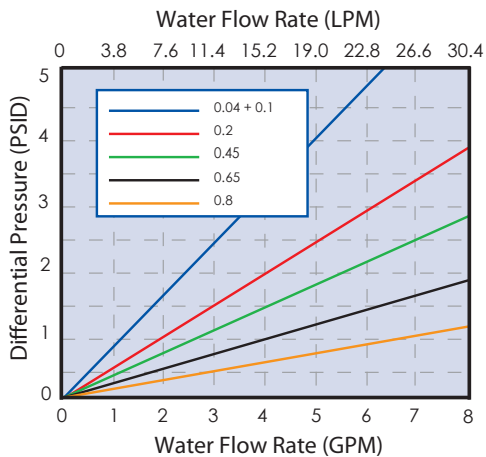
Filter Data Sheet

High Purity – Water Service Grade PES

Hydrophilic Polyethersulfone (PES) Membrane for Water Purification

Water Service Grade PES Cartridges are cost effective alternatives to General and Electronic Grade Cartridges for a variety of aqueous based fluids. Water Service Cartridges are manufactured from an inherently hydrophilic PES membrane. These cartridges offer excellent flow characteristics, extended service life and broad chemical compatibility.

Flow Rate



Typical Applications

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

Ordering Information

GW PES	Pore Size	A	Length	C	End Cap Code	O-Rings/Gaskets	-	Adders
	0.04		10 (25.4 cm)		2 = DOE Flat Gasket	B = Buna		I = Stainless Steel Insert
	0.1		20 (50.8 cm)		3 = 222 w/ Fin	E = EPDM		HP = Heavy Poly Core
	0.2		30 (76.2 cm)		4 = 222 w/ Flat Cap	S = Silicone		
	0.45		40 (101.6 cm)		6 = 226 w/ Flat Cap	V = Viton		
	0.65				7 = 226 w/ Fin	T = Teflon® Encapsulated Viton		
	0.8				16 = 213 Internal O-Ring			



Construction Materials

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

Sanitization/Sterilization

Filtered Hot Water..... 80°C for 30 min.
Steam Sterilization..... 121°C for 30 min., multiple cycles.

Chemicals: Cartridges are chemically compatible with most chemicals and sanitizing agents.

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

Dimensions

Length:
10 to 40 inches (25.4 to 101.6 cm) nominal

Outside Diameter:
2.70 inches (7.0 cm) nominal

Maximum Recommended Operating Conditions

Temperature..... 176°F (80°C)

Maximum Differential Pressures

Forward..... 50 PSI (3.4 bar) at 20°C
Reverse..... 40 PSI (2.7 bar) at 20°C

FDA Listed Materials

Manufactured from materials which are listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Toxicity

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

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