

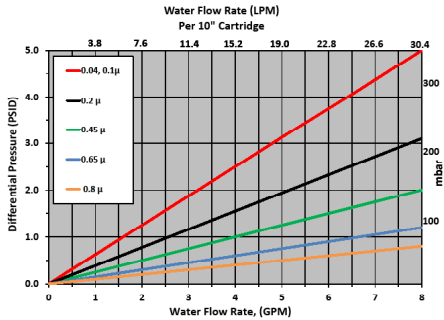


**High Purity - General Grade PES**  
Hydrophilic Polyethersulfone (PES) Membrane for Liquid Applications

**General Grade PES Cartridges** are designed for general purpose use wherever a cost-effective membrane filter is required. General Grade PES cartridges are inherently hydrophilic. These cartridges offer excellent flow characteristics, excellent service life and broad chemical compatibility. The Extended Area option (GGPESX) offers up to 40% more surface area. This additional area results in significant increases in flowrate and loading capacity in the same footprint.



**Flow Rate vs Pressure Drop**



\* Data represents GGPES. For GGPESX option, multiply given flowrate by 1.4.

**Typical Applications**

- Deionized Water Systems
- General-Use Water Filtration
- Liquid Clarification
- Recirculating Fluids
- 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, Viton®, 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.

**Toxicity**

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

**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

**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 2002/72/EC, 1935/2004, and/or 10/2011.

**Ordering Information**

GGPES	Rating (μ)	A	Length	C	End Cap Style	O-Rings/Gaskets	-	Adders
GGPESX	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		CS = 316ss Compression Spring
	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	Z = Teflon® Encapsulated Silicone		

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.