

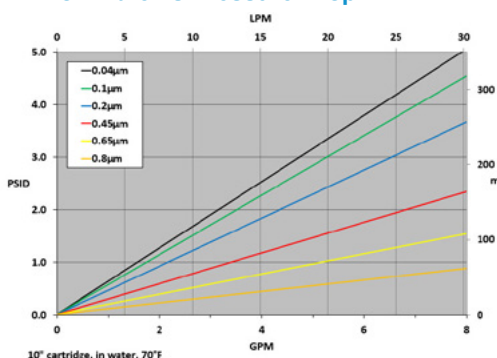
## GGPES-Series General Grade Polyethersulfone

GGPES-Series High Purity General Grade Polyethersulfone Filter Cartridges are a well-suited choice for cost effective, general purpose membrane filtration. The highly retentive polyethersulfone membrane offers excellent flux density and low protein-binding. The naturally hydrophilic membrane wets easily to allow maximum utilization of the entire surface. These features coupled with its extended filtration area allow the GGPES-Series to provide lower pressure loss and longer service life versus comparable products.



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
- Recirculating Fluids
- Chemical Filtration

### Ordering Information

| GGPES | 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    |
|       | 0.2        |   | 30" (76.2 cm)  |   | 4 = 222 w/ Flat Cap      | S = Silicone                      |   |                               |
|       | 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 |   |                               |

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®

### Dimensions

**Length:**  
10 to 40 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)

### 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.

### 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.

### Toxicity

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