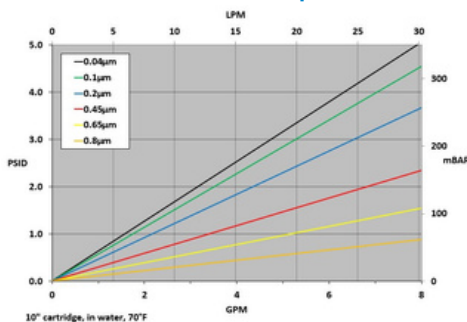


GGPES-Series General Grade Polyethersulfone

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

Construction Materials

MembranePolyethersulfone
Support MediaPolypropylene
End CapsPolypropylene
Center CorePolypropylene
Outer Support CagesPolypropylene
O-Rings/GasketsBuna, EPDM, Silicone
 Teflon® Encapsulated Viton^{®1}, Viton®,
 Teflon® Encapsulated Silicone²

Dimension (Nominal)

Length10 to 40 in (25.4 to 101.6 cm)
Outside Diameter2.7 in (7.06 cm)

Operating Conditions

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

Sanitization/Sterilization

Filtered Hot Water176 °F (80 °C) for 30 min

Steaming Sterilization250 °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.

Toxicity

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

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 1935/2004, and/or 10/2011.

Ordering Information

GGPES	Rating(µ)	A	Length	C	End Cap Style	O-Rings/Gaskets	-	Adders
	0.04		10" (25.4cm)		2 = DOE Flat Gasket ^{1,2}	B = Buna-N		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 ^{®1}		
	0.65				7 = 226 w/Fin	V = Viton®		
	0.8				16 = 213 Internal O-Ring	Z = Teflon® Encapsulated Silicone ²		
					28 = 222 3-Tabs w/ Fin			

1 - When ordering with DOE Flat Gasket, gasket style "T" = ePTFE (Expanded Teflon® - no encapsulation)

2 - When ordering with DOE Flat Gasket, gasket style "Z" is not available