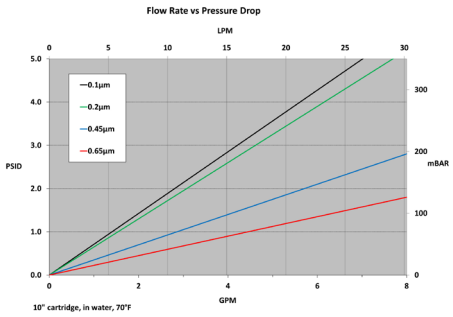
GLOBAL FILTER
Filtration Group®

Validated Filtration Solutions to Industry Leaders®

WCPES-Series WaterClear™ Polyethersulfone

WCPES-Series High Purity WaterClear™ Polyethersulfone Filter Cartridges are a value oriented 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 Cages ..... Polypropylene
O-Rings/Gaskets ..... Buna, EPDM, Silicone
Teflon® Encapsulated Viton®[1], Viton®,
Teflon® Encapsulated Silicone[2]

Dimension (Nominal)

Length ..... 10 to 40 in (25.4 to 101.6 cm)
Outside Diameter ..... 2.7 in (7.06 cm)
Cartridge Lengths: Lengths in Ordering Information table denoted with an asterisk(*) are constructed with thermally-bonded 20" modules.

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 Water ..... 176˚F (80˚C) for 30 min
Steam Sterilization ..... 250˚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.

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 1935/2004 and/or 10/2011.

Ordering Information

WCPES	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[3]
	0.2		30" (76.2 cm)		4 = 222 w/Flat Cap	S = Silicone		R = 18 Megaohm Rinse
	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
3 -Stainless Steel Insert (I) Adder comes standard with the Heavy Poly Core (HP) for elements constructed with a 222 or 226 end cap.

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Corporate Office
1201 Continental Pl NE
Cedar Rapids, IA 52402 USA

Phone
Office: +1-877-603-1003
Fax: +1-319-743-0220

Online
Website: www.globalfilter.com
Email: gfcustomerservice@filtrationgroup.com