



# BATES WATER SOLUTIONS, INC.

Challenge Us. We solve Water Equipment Issues.  
760 N. Frontage Rd. Suite 103 - Willowbrook IL 60527  
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PROUDLY MADE IN AMERICA

## Polyethersulfone Membrane Cartridges

*PES Series for Electronics, DI Water, Chemical & Beverage Filtration*



- BWS's (PES), Polyethersulfone cartridges offer a **wide array of micron ratings** from .1 to 5 microns
- All Polyethersulfone cartridges are **produced in-house** on the most modern equipment available
- Complete in-house testing guarantees a **superior and consistent product**
- Cartridges have **excellent dirt holding capacity with low flow resistance**
- **Naturally hydrophilic media** does not need wetted before use
- We offer **all end cap configurations** to fit your applications and housings
- Polyethersulfone media is excellent for its low protein binding and chemical compatibility
- Cartridges are manufactured to **meet FDA Title 21** for food contact applications
- Cartridges are constructed in a **clean room environment**
- Cartridges may be ordered as **final rinsed with 18 mega ohm water**

***Please call with all of your applications  
(630) 964-1539***

Toxicity	Purity
BWS's Cartridges are manufactured with no additives or other manufacturing agents. We guarantee all materials used in the production meet FDA Title 21 of the Code of Federal Regulations 174.5 and 177.1520.	Cartridges are Free of Surfactants, Resins, Binders and Adhesives
Sterilization	
Multiple Autoclaving for 30 Minutes at 250°F (121°C) under no End Load Conditions. In-line Steam Sterilization is not recommended. May be In-line Sanitized with Hot Water at 180°F (82°C) for 1 hour.	

Product Specifications	
<b>Retention Ratings:</b>	.1, .22, .45, .6, .8, 1.2, & 5 micron
<b>Membrane:</b>	Polyethersulfone
<b>Support Media:</b>	Polypropylene
<b>End Caps:</b>	Polypropylene
<b>Center Core:</b>	Polypropylene
<b>Outer Support Cage:</b>	Polypropylene
<b>Maximum Operating Temperature:</b>	175°F
<b>Nominal Diameter:</b>	O.D. - 2.7" I.D. - 1" center
<b>Lengths:</b>	10, 20, 30, & 40 inch
<b>Maximum Differential Pressure:</b>	45 psid

FDA compliance under Title 21 of the code of federal regulations for food contact applications



### Building a Part Number

POLYETHERSULFONE	MICRON	CARTRIDGE LENGTH	CORE MATERIAL	END CAP	GASKET / O-RING	18 MEGA OHM RINSE
<b>PES</b>	<b>.1</b>	<b>3</b>	<b>E</b>	<b>2</b>	<b>B</b>	<b>R</b>
PES	.1 .22 .45 .60 .80 1.2 5.0	3 = 10 5 = 20 7 = 30 9 = 40	E = Polypropylene	2 = 222/Fin 4 = 222/Flat 5 = 226/Flat 6 = 226/Fin 9 = Flat Gasket	B = Buna V = Viton® T = Teflon® S = Silicone N = Neoprene D = EPDM	R

