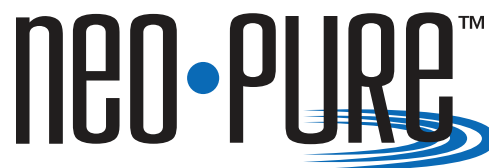


# HP-PESB Series

## Polyethersulfone Membrane

### – Beverage Grade



## Applications

- Beer
- Bottled Water
- Food and Beverage
- Malt Beverages
- Process Water
- RO Pre/Postfiltration
- Water and Wastewater
- Wine



## Commercial/Industrial Filtration Applications

### Standard Features

- Manufactured in the USA
- Absolute retention ratings from 0.1 to 1.2 microns
- 7.2 square feet (0.67 m<sup>2</sup>) of media surface area per ten inch length for high throughput and longer service life
- Fully integrity tested to ensure reliable performance in critical applications
- 100% flushed with 18 megohm DI water for low extractables
- Manufactured in a Class 10,000 Clean Room environment for high purity
- Rigid, molded cage protects pleated media and strengthens structural stability
- Available in up to 40 inches in length (10-inch modules)

### Product Specifications

#### Micron Sizes

0.1, 0.2, 0.45, 0.65, 0.8, 1, 1.2

#### Cartridge Lengths

9 3/4" (24.7 cm), 10" (25.4 cm), 20" (50.8 cm), 30" (76.2 cm), and 40" (101.6 cm)

#### Inside and Outside Diameters

1" (2.54 cm) ID, 2.67" (6.78 cm) OD

#### Media Surface Area

7.2 sq. ft. (0.67 m<sup>2</sup>) per 10 inches filter length

#### Maximum Operating Temperature

176°F (80°C) temperature limit

#### Recommended Change-Out Differential Pressure

35 psid (2.4 bar)

#### Maximum Differential (Collapse) Pressure

75 psid@70°F (5.2 bar@21°C), 40 psid@176°F (2.8 bar @80°C)

#### Sanitization and Sterilization

Hot water at 175°F (80°C) at 5 psid for 30 minutes

Inline steam at 257°F (125°C) @ 1 psid (0.7 bar) for 30 minutes

Autoclavable at 257°F (125°C) for 30 minutes

#### Materials of Construction

Filter media: polyethersulfone

Outer cage, inner core and end caps: polypropylene

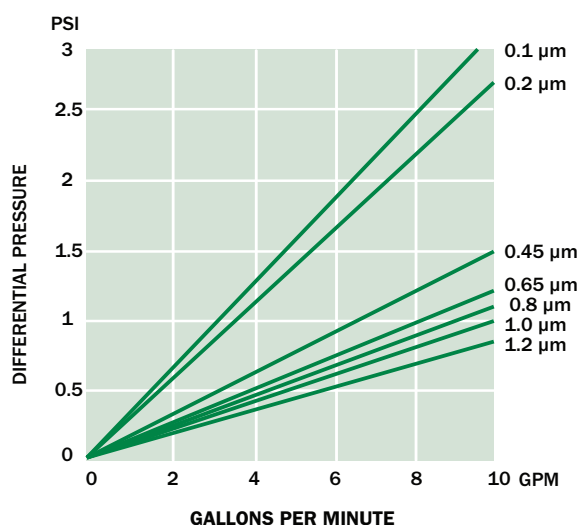
#### FDA and USP Compliance

All polypropylene materials comply with the requirements of Food and Drug Administration Title 21 of The Code of Federal Regulations 174.5, 177.1520 and 177.1830. All components meet current USP Class VI biological tests for plastics

# Ordering Guide (Example: HP-PESB-26100-0.2213-B-HT)

HP - PESB - 26 100 - 0.2 213 - B - HT							
TYPE	MEDIA	CARTRIDGE DIAMETER	CARTRIDGE LENGTH	MICRON RATING	END CAP	O-RING / GASKETS	OPTIONS
HP = High Purity Pleated	PESB = Hydrophilic Polyethersulfone Membrane (beverage grade)	26 = 2.67" (6.78 cm)	097 = 9-3/4" 100 = 10" 200 = 20" 300 = 30" 400 = 40"	0.1 = 0.1 0.2 = 0.2 0.45 = 0.45 0.65 = 0.65 0.8 = 0.8 1 = 1.0 1.2 = 1.2	Blank = DOE (standard) 213 = 213 internal o-ring 222f = 222/Flat 222n = 222/Fin 222s = 222/Spring 226f = 226/Flat 226n = 226/Fin SOEf = SOE/Flat SOEn = SOE/Fin SOEs = SOE/Spring Z = Custom	E = EPDM B = Buna N S = Silicone V = Viton T = Teflon	HT = High Temp (200 °F, 93 °C)

## Flow vs. Pressure Drop



This chart represents the typical water flow per 10" cartridge length. Cartridges are tested in water at ambient temperature. Data may be extrapolated for multiple lengths, but as flow rate increases,  $\Delta P$  of the housing becomes more apparent.

## Integrity Testing

PORE SIZE	AIR DIFFUSION RATE
0.1µm	≤30cc/min@48psi
0.2µm	≤30cc/min@35psi
0.45µm	≤30cc/min@20psi
0.65µm	≤30cc/min@15psi
0.8µm	≤30cc/min@12psi
1.0µm	≤30cc/min@8psi
1.2µm	≤30cc/min@7psi
Per 10" length water wetted membrane	

## Case Packs

Each high purity cartridge is individually poly bagged and individually boxed, then master packed into cartons of 12 units in all lengths.

## Available End Cap Configurations



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Contact your **authorized NeoLogic distributor** today:  
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