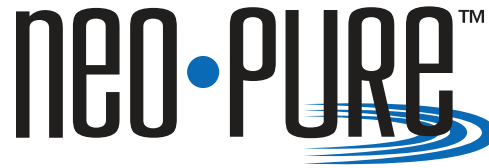


HP-PESE Series

Polyethersulfone – Electronic Grade



Applications

- DI Water
- Microelectronics
- Process Water
- RO Pre/Postfiltration
- Semiconductors
- Water and Wastewater



Commercial/Industrial Filtration Applications

Standard Features

- Manufactured in the USA
- Absolute retention ratings from 0.03 to 0.65 microns
- 7.2 sq. ft. (0.67 m²) of media surface area per 10" length for optimal performance
- 100% flushed w/18 megohm DI water to less than 5 ppb TOC
- Rapid rinse-up to 18 megohm resistivity and low extractables for use in ultrapure water
- Manufactured in a Class 10,000 Clean Room environment for high purity
- Rigid, molded cage protects pleated media and strengthens structural stability
- Available up to 40 inches in length (10 inch modules)

Product Specifications

Micron Sizes

0.03, 0.1, 0.2, 0.45, and 0.65

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. (0.65 m²) per 10" 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: asymmetric polyethersulfone

Outer cage, inner core and end caps: polypropylene

FDA and USP Compliance

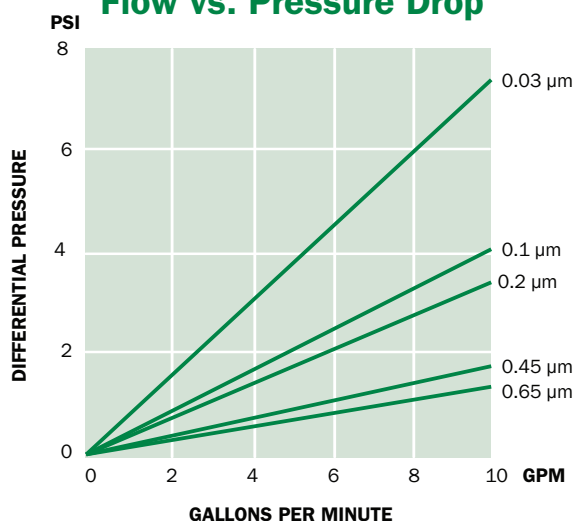
All filters manufactured of virgin polypropylene materials. All polypropylene materials comply with the requirements of Food and Drug Administration Title 21 of The Code of Federal Regulations 174.5, 177.1520 and 177.1630. All components meet current USP Class VI biological tests for plastics.

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

HP	PESE	26	100	0.2	213	B	HT
TYPE	MEDIA	CARTRIDGE DIAMETER	CARTRIDGE LENGTH	MICRON RATING	END CAP	O-RING / GASKETS	OPTIONS
HP = High Purity Pleating	PESE = Polyethersulfone (electronic grade)	26 = 2.67" (6.78 cm)	097 = 9-3/4" 100 = 10" 200 = 20" 300 = 30" 400 = 40"	0.03 = 0.03 0.1 = 0.1 0.2 = 0.2 0.45 = 0.45 0.65 = 0.65	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)*

*High temperature construction (cage, core, end caps): maximum temperature 200 °F (83.3 °C) – available only in 222 or 226 with fin or flat end caps.

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, ΔP of the housing becomes more apparent.

Integrity Testing

PORE SIZE	AIR DIFFUSION RATE
0.03µm	≤30cc/min@60psi
0.1 µm	≤30cc/min@48psi
0.2 µm	≤30cc/min@35psi
0.45µm	≤30cc/min@20psi
0.65µm	≤30cc/min@15psi
Per 10" length water wetted membrane	

Available End Cap Configurations



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