

SteriPure-G Polyethersulfone Pleated Cartridge Filter

» An Absolute Filter with Extremely Long Service Time



Specifications

» Materials of Construction » Filter Dimensions

Filter membrane	Polyethersulfone and Glass Fiber
Supports	Polypropylene
Cage/End Caps	Polypropylene
Core	Polypropylene / Polysulfone
Adaptor	Polypropylene
O-rings	Silicone/EPDM

Outer Diameter	68.5mm
Inner Diameter	33.0mm
Filtration Area	≥0.44m ²

» Safety

Bacterial Endotoxin	≤0.25EU/ml
Extractable	≤ 40 mg/10 inches

» Operating Parameters

Maximum Operating Temperature	1.9 bar@ 82°C
Maximum Differential Pressure (forward)	5.2 bar@25°C
Maximum Differential Pressure (reverse)	2.1 bar@25°C
Recommended Replacement Pressure	2.4bar

» Compatibility

SteriPure-G cartridge filters are sealed using thermal bonding process, contain no adhesive and surfactant. The components of SteriPure, include of Polyethersulfone, Glass Fiber, Polyethylene, Polysulfone, Polypropylene and Silicone/EPDM, provide broad chemical compatibility and low extractable levels at high temperature.

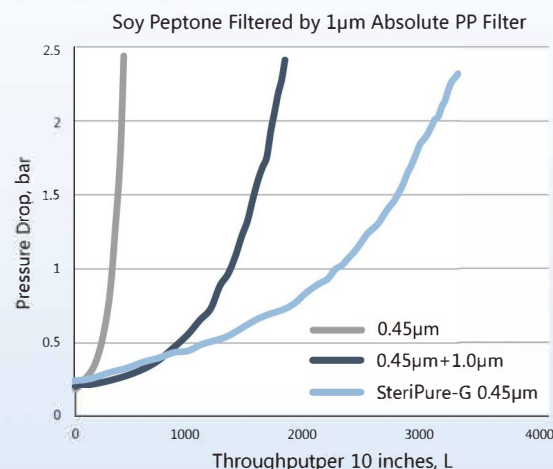
» Economy

Glass fiber deep filtration layers and asymmetric Polyethersulfone membranes provide high total throughput capacity and well-defined retention efficiency for SteriPure-G respectively. SteriPure-G can be the most cost-effective choice in most applications.

Lower Cost and Better Performance

Sub-Micro Glass Fiber layers and highly asymmetric hydrophilic polyethersulfone membranes provide a longer service time. SteriPure-G cartridge filters can reduce the filtration cost significantly.

» Service Life



Application

- Particles removal
- Lipids and colloids removal
- Microbiological removal
- Clarification filtration

Description

SteriPure-G cartridge filters feature a unique combination of asymmetric Polyethersulfone membranes and sub-micro glass fiber layers. A combine of well-defined retention efficiency and high total throughput capacity make they ideally suited for liquid containing particle and colloids. SteriPure-G can guarantee the microbiological stability of the liquid with a low adsorption of protein, polysaccharide and polyphenol. They will be the sufficient condition for the stable operation of filtration system.

» Reliability

From raw materials purchase, transport and storage to production, all operations follow ISO 9001 quality management system. SteriPure-G manufactured, tested and packaged in a cleanroom to ensure product cleanliness. Each individual filter is flushed by DI water and integrity tested.

» Regulatory Compliance

ASTM D6394 SP0112
 FDA 21 CFR 177.1655
 ISO 10993-Part 1, 5
 EN 285:2006+A2:2009.
 Regulation (EC) No 1935/2004

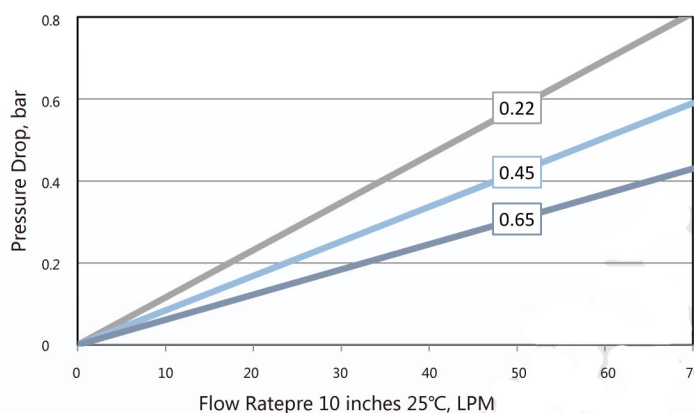
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Integrity Data

Pore Size	Min. Bubble Point, 25°C	Max. Diffusion, 25°C	Challenge Microorganisms	LRV, per cm ²
0.22µm	3.0 bar	23 ml/min@ 2.4 bar	Brevundimonas diminuta (ATCC 23206)	7
0.45µm	1.8 bar	23 ml/min@ 1.4 bar	BrSerratia Marcescens (ATCC 14756)	7
0.65µm	1.2 bar	23 ml/min@ 0.9 bar	Saccharomyces Cerevisiae (ATCC 18824)	7

Flow Rate-Pressure Drop



Sterilization and Disinfection

Autoclave	124°C, 30 min, 100 cycles
Steam in place	124°C, 30 min, 100 cycles
Hot water	85°C, 60 min, 80 cycles

Order Information

Filter Media	Length	Pore Size	Adaptor	Sealing	Core
CRPESG: Glass Fiber +Asymmetric Polyether sulfone Membrane	005 = 5 inches 010 = 10 inches 020 = 20 inches 030 = 30 inches 040 = 40 inches	020 = 0.22 µm 045 = 0.45 µm 065 = 0.65 µm	0 = DOE 2 = 222/Flat 3 = 222/Fin 5 = 226/Fin with 316L Stainless Steel Insert 6 = 226/Fin 7 = 226/Flat	S = Silicone E = EPDM	Blank = Polypropylene S = 316L stainless steel P = Polysulfone