BRE-SG - Brevi-Cap Pur-MAXX E SG

Single-Use Sterilizing-Grade Double-Layer PES Membrane Capsules

Clarity clear solutions

PRODUCT HIGHLIGHTS

- **Sterilizing-grade filtration:** Double-layer polyethersulfone membrane for pharmaceutical and biopharmaceutical liquid processing.
- **Bacterial retention:** Retains a Brevundimonas diminuta challenge of 1×10^7 CFU/cm^2.
- **Unit-level quality assurance:** 100% of filter units are DI flushed and integrity tested, with a Certificate of Quality.
- **Compact single-use format:** Two capsule sizes with low fill and hold-up volumes.
- **Sterilization flexibility:** Autoclavable and gamma irradiatable; confirm availability of gamma-irradiated configurations.



PRODUCT DESCRIPTION

The Strainrite Brevi-Cap Pur-MAXX E SG capsule combines sterilizing-grade, double-layer PES membrane with an ultrapure polypropylene capsule for single-use liquid filtration. Designed for upstream and downstream processing, BRE-SG supports applications involving small-volume parenterals, biopharmaceuticals, ophthalmics, active pharmaceutical ingredients, biologicals, and therapeutics.

The double-layer membrane retains a Brevundimonas diminuta challenge of 1×10^7 CFU/cm^2. Every filter unit is DI flushed and integrity tested, and a Certificate of Quality supports product documentation. Additional intended fluids include ultrapure chemicals, buffers, water, nutraceuticals, and media.

Available in two capsule sizes, BRE-SG offers a compact format for benchtop studies, scale-up and scale-down work, and single-use systems. Low fill and hold-up volumes support small-volume processing, while sanitary and hose-barb connection options provide flexibility for system integration. Capsules are autoclavable and gamma irradiatable, with gamma-irradiated availability confirmed through Strainrite.

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DESIGNED FOR
Sterilizing-filtration of SVPs, biopharmaceuticals, ophthlamics, APIs, biologicals, therapeutics. For ultra-pure chemicals, buffers, water, nutraceuticals, media. Upstream & downstream processing. Each would be tailored to customer's application.

FILTER MEDIA
Two layers of polyethersulfone membrane

PLEAT SUPPORT MATERIAL
Polypropylene

TOXICITY
USP Class VI; FDA 21 CFR; REACH; RoHS; BSE/TSE

FILTER HARDWARE
Polypropylene

VALIDATION
Retains 10^7 cm^2 CFU of Brevundimonas diminuta

MICRON RATING
0.2/0.2 µm
0.45/0.2 µm

QUALITY
100% of filter units DI flushed
100% of filter units integrity tested
Certificate of Quality

CONSTRUCTION METHOD
Thermal Bond

STERILIZATION
Cartridge can be sterilized via steam of Autoclave: 40 times for 60 minutes at 257°F (125°C) and <3PSI
Cartridge may be sanitized in place with common sanitizing agents, contact factory for chemical compatibility

CAPSULE LENGTHS
A Hosebarb inlet/outlet: 6.0 in (152 mm)
Sanitary flange inlet/outlet: 5.0 in (127 mm)
B Hosebarb inlet/outlet: 7.7 in (196 mm)
Sanitary flange inlet/outlet: 6.6 in (168 mm)
C Hosebarb inlet/outlet: in ( )
Sanitary flange inlet/outlet: in ( )

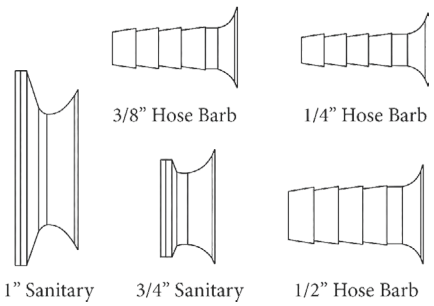
SURFACE AREA
A 1.02 ft^2 (948 cm^2)
B 1.86 ft^2 (1,728 cm^2)
C 2.45 ft^2 (2,276.12 cm^2)

PACKAGING ECONOMY
Bulk packaging in case quantities to reduce material disposal:
5 inch - 48 per carton | 10 inch - 24 per carton | 20 inch - 12 per carton | 30 inch - 12 per carton | 40 inch

SPECIFICATIONS

PERFORMANCE CHARACHTERISTICS- INTEGRITY TEST

Size	Wetting Fluid	Diffusive Flow Integrity Test			Bubble Point (psig)
		Test Pressure (psig)	Air Flow Limit (ml/min)		
A	Water	40	0.2/0.2 0.45/0.2	≤2.8 ≤4.0	≥ 49
B	Water	40	0.2/0.2 0.45/0.2	≤5.0 ≤7.0	≥ 49
C	Water	40	0.2/0.1 | 0.2/0.2 SG 0.45/0.2	≤6.8 ≤9.5	≥ 49



ORDER OPTIONS

CARTRIDGE	LENGTHS	INLET OPTIONS	OUTLET OPTIONS	STYLE	CONFIGURATION	GRADE	SEAL
BCP Brevi-Cap Capsule	**A** See Above **B** See Above **C** See Above	**D1** = 1", 1.5"Sanitary **D3** = 0.25" Hose Barb **D4** = 0.5" Hose Barb **D6** = 0.75", 0.5" sanitary **D7** = 0.375" hose barb **D9** = 0.25" MPT	**O1** = 1", 1.5"Sanitary **O3** = 0.25" Hose Barb **O4** = 0.5" Hose Barb **O6** = 0.75", 0.5" sanitary **O7** = 0.375" hose barb **O9** = 0.25" MPT	**BRE**	**201** = 0.2/0.1 0.2.0.2 **452** = 0.45/0.2	**SG**	**S** = Silicone

BCP → B (CAPSULE LENGTH) → D4 (INLET OPTIONS) → O4 (OUTLET OPTIONS) → BRE (CARTRIDGE STYLE) → 0.2 (CONFIGURATION) → SG (GRADE) → S (SEAL)

BCPBD4O4BRE0.2SGS