BRE - Brevi-Cap Pur-MAXX E

Single-Use PES Membrane Prefiltration and Bioburden Reduction Capsules

Clarity
clear solutions

PRODUCT HIGHLIGHTS

- **Prefiltration and bioburden reduction:** Single-layer PES membrane for upstream and downstream liquid processing.
- **Downstream filter protection:** Designed to protect final filters and improve filtration economics.
- **Selection flexibility:** Seven absolute micron ratings from 0.04 to 1.2 µm.
- **Documented quality:** 100% of filter units are DI flushed and integrity tested, with a Certificate of Quality.
- **Single-use integration:** Two capsule sizes, sanitary or hose-barb connections, and autoclavable, gamma-irradiatable construction.



PRODUCT DESCRIPTION

The Strainrite Brevi-Cap Pur-MAXX E capsule provides PES membrane prefiltration and bioburden reduction in a compact, single-use format. Designed for use ahead of final filtration, BRE helps protect downstream filters and supports the economics of pharmaceutical and biopharmaceutical processing.

The single-layer PES membrane is available in seven absolute micron ratings from 0.04 to 1.2 µm. Intended applications include large- and small-volume parenterals, biopharmaceuticals, ophthalmics, active pharmaceutical ingredients, biologicals, therapeutics, ultrapure chemicals, buffers, water, and nutraceuticals. Every filter unit is DI flushed and integrity tested, with a Certificate of Quality.

Two capsule sizes support benchtop studies and single-use process systems. Polypropylene support layers and filter hardware are combined with a choice of sanitary and hose-barb connections, plus valved vent and drain ports. BRE capsules are autoclavable and gamma irradiatable; availability of gamma-irradiated units should be confirmed with Strainrite.

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SPECIFICATIONS

DESIGNED FOR
Prefiltration and bioburden reduction of LVPs, SVPs, biopharmaceuticals, ophthlamics, APIs, biologicals, therapeutics, ultra-pure chemicals, buffers, water, nutraceuticals. Upstream and downstream processing. Protection of final filters to improve economics.

FILTER MEDIA
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
0.04, 0.1, 0.2, 0.45, 0.65, 0.8, 1.2 µm

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

CONSTRUCTION METHOD
Thermal Bond

STERILIZATION
Autoclavable, Gamma Irradiatable

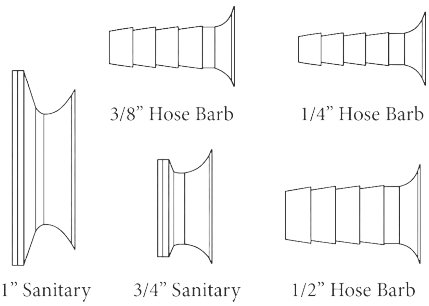
CAPSULE LENGTHS
A *Hosebarb inlet/outlet: 6.0 in (152 mm)*
Sanitary flange inlet/outlet: 5.0 in (127 mm)
B *Hosebarb inlet/outlet: 7.7 in (196 mm)*
Sanitary flange inlet/outlet: 6.6 in (168 mm)
C *Hosebarb inlet/outlet: in (mm)*
Sanitary flange inlet/outlet: in (mm)

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

PERFORMANCE CHARACHTERISTICS- INTEGRITY TEST

	Micron Rating	0.04	0.1	0.2	0.45	0.65	0.8	1.2
	Wetting Fluid	IPA	IPA	Water	Water	Water	Water	Water
A	Diffusive Flow Test Pressure	36 PSIG	28 PSIG	40 PSIG	30 PSIG	17 PSIG	12 PSIG	6 PSIG
	AIR Diffusive Flow Limit	≤15 (ml/min)	≤15 (ml/min)	≤15 (ml/min)	≤15 (ml/min)	≤15 (ml/min)	≤15 (ml/min)	≤15 (ml/min)
	Bubble Point	≥48 PSIG	≥35 PSIG	≥49 PSIG	≥39.9 PSIG	≥21.5 PSIG	≥16 PSIG	≥8 PSIG
B	Diffusive Flow Test Pressure	36 PSIG	28 PSIG	40 PSIG	30 PSIG	17 PSIG	12 PSIG	6 PSIG
	AIR Diffusive Flow Limit (ml/min)	≤28 (ml/min)	≤28 (ml/min)	≤28 (ml/min)	≤28 (ml/min)	≤28 (ml/min)	≤28 (ml/min)	≤28 (ml/min)
	Bubble Point	≥48 PSIG	≥35 PSIG	≥49 PSIG	≥39.9 PSIG	≥21.5 PSIG	≥16 PSIG	≥8 PSIG
C	Diffusive Flow Test Pressure							
	AIR Diffusive Flow Limit (ml/min)							
	Bubble Point							



ORDER OPTIONS

CARTRIDGE	LENGTHS	INLET OPTIONS	OUTLET OPTIONS	STYLE	MICRON	GRADE	SEAL	OPTIONS
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**	0.04 µm 0.1 µm 0.2 µm 0.45 µm 0.65 µm 0.8 µm 1.2 µm	**2**	**S** = Silicone **B** = Buna N **V** = Fluorocarbon **E** = EPDM	- none/non-sterile **GI** Gamma irradiation* *Check with Strainrite for availability

BCP → B (CAPSULE LENGTH) → D4 (INLET OPTIONS) → O4 (OUTLET OPTIONS) → BRE (CARTRIDGE STYLE) → 0.45 (MICRON RATING) – 2 (GRADE) → S (SEAL) → (CARTRIDGE SEAL OPTIONS) → **BCPBD4O4BRE0.45-2S**