Bev-MAXX

Polyethersulfone for Food & Beverage Sterilization

▶ **FOOD AND BEVERAGE APPLICATIONS**

ORDER GUIDE

BVM → 0.2 (MICRON RATING) – 20 (CARTRIDGE LENGTH) → PP (PLEAT SUPPORT) → C3 (END CAP CONFIGURATION) → E (GASKET / O-RING MATERIALS) → **BVM0.2-20PPC3E**

Strainrite's Bev-MAXX pleated membrane filters are specifically engineered to provide an absolute barrier to beverage spoiling micro-organisms. The Bev-MAXX incorporates a highly asymmetric polyethersulfone membrane within our exclusive pleat support configuration creating one of the industry's most rugged yeast removal filters. This exceptionally robust filter design means filter performance will remain effective after multiple steam sterilization cycles.

Every Bev-MAXX filter is integrity tested and flushed with high purity water to assure product performance and purity. Integrity test parameters have been correlated to microbiological retention for all of our membrane filters (refer to microbiological performance chart).

- ▶ **ABSOLUTE-RATED AND INTEGRITY TESTED MEMBRANE PROVIDES RELIABLE, CONSISTENT AND REPEATABLE FILTRATE TO ENSURE MICROBIOLOGICAL STABILITY**
- ▶ **LOW PRESSURE DROPS YIELD HIGHER FLOW RATES AND REDUCED PROCESSING TIME**
- ▶ **NON-FIBER SHEDDING POLYPROPYLENE SUPPORT MATERIALS ELIMINATE FIBER MIGRATION**
- ▶ **MAXIMUM PLEAT DESIGN FOR GREATER SURFACE AREA, ENSURING LONGER SERVICE LIFE, FEWER CHANGE OUTS AND REDUCED OPERATING COSTS**
- ▶ **100% THERMALLY BONDED CONSTRUCTION**
- ▶ **HIGH STRENGTH DESIGN ALLOWING FOR EXTENDED USE AND MULTI AUTOCLAVE AND HOT WATER SANITIZATION CYCLES**
- ▶ **316 STAINLESS STEEL INSERT STANDARD**
- ▶ **ALL MATERIALS ARE LISTED IN TITLE 21 OF THE US CODE OF FEDERAL REGULATIONS 177-182**
- ▶ **COMPONENT MATERIALS MEET THE BIOSAFETY CRITERIA OF THE USP REACTIVITY TEST FOR CLASS VI PLASTICS**
- ▶ **COMPONENT MATERIALS MEET THE "NON-FIBER RELEASING" CRITERIA AS DEFINED IN 21 CFR 210.3 (B) (6)**
- ▶ **BEV-MAXX CARTRIDGES ARE MANUFACTURED IN A FACILITY WHOSE QUALITY MANAGEMENT SYSTEM IS APPROVED BY AN ACCREDITED REGISTERING BODY TO THE ISO 9001:2008 STANDARD**
- ▶ **BEV-MAXX CARTRIDGES ARE 100% INTEGRITY TESTED AND DI FLUSHED**

NEED A VESSEL FOR YOUR CARTRIDGES?

For the Bev-MAXX, the following vessel types are most commonly used:

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As always, discuss your options with your local sales representative to find the best fit for your application.

ABSOLUTE RATED RETENTION
0.2, 0.45, 0.65

MAXIMUM DIFFERENTIAL PRESSURE	
Forward: 75 psid (5.1 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)	**Reverse:** 50 psid (3.4 bar) @ 75°F (24°C)

MAXIMUM OPERATING TEMPERATURE
180°F (82°C) Continuous Duty

STERILIZATION
Cartridge can be sterilized via steam or Autoclave: 40 times at 275°F (135°C) Cartridge may be sanitized in place with common sanitizing agents, contact factory for chemical compatibility

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 - 9 per carton

FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
Polyethersulfone	Polypropylene	Polypropylene	Polypropylene

SEALS	REINFORCING RING
EPDM | Silicone	316 Stainless Steel

CONSTRUCTION METHOD
Thermal Bond

OUTSIDE DIAMETER	APPROXIMATE SURFACE AREA
2.7" (6.87cm)	7 square feet per 10" equivalent

LENGTHS
5 inch (12.7 cm) | 10 inch (25.4 cm) | 20 inch (50.8 cm) | 30 inch (76.2 cm) | 40 inch (102 cm)

INTEGRITY TEST VALUES			
PORE SIZE	BUBBLE POINT	TEST PRESSURE	AIR DIFFUSION
BVM0.2	50 psig in water	40 psig	≤16mL/min
BVM0.45	29 psig in water	23 psig	≤13.5mL/min
BVM0.65	26 psig in water	20 psig	≤14mL/min

MICROBIOLOGICAL PERFORMANCE			
MICROORGANISM	BVM0.2	BVM0.45	BVM0.65
Oenococcus oeni		$\geq 10^7$	
Lactobacillus hilgardii		$\geq 10^7$	
Saccharomyces cerevisiae		$\geq 10^7$	$\geq 10^7$
Brevundimonas diminuta	$\geq 10^7$		

ORDER OPTIONS

CARTRIDGE

BVM	Bev-MAXX

MICRON RATINGS

0.2, 0.45, 0.65

CARTRIDGE LENGTH

5, 10, 20, 30, 40

PLEAT SUPPORT

PP	Polypropylene

END CAP CONFIGURATIONS

C3	Flat/222
C6	Flat/226
C7	Fin/226
C8	Fin/222

GASKET / O-RING MATERIAL

S	Silicone
E	EPDM