

# 3M™ LifeASSURE™ BBA Series Filter Cartridges

Provides reliable microorganism control in food and beverage applications. Designed for durable and long-lasting performance in a variety of food and beverage applications.

## Food & Beverage Applications

- Beer
- Wine
- Bottled Water
- Soft Drinks
- Hard Seltzer (Alcoholic)



## Technical Product Benefits

- The LifeASSURE BBA filter cartridge is manufactured under an ISO 9001: 2015 certified quality management system.
- LifeASSURE BBA 0.45 µm and 0.65 µm rated filter cartridges provide excellent retention of common spoilage microorganisms.
- LifeASSURE BBA filter cartridges deliver reliable spoilage microorganism retention for: *Lactobaccillus Brevis* (0.45 µm) and *Saccharomyces cerevisiae* (0.65 µm).
- The LifeASSURE BBA Filter cartridge design combines asymmetric PES membrane and meltblown polypropylene microfiber media.
- Product complies with applicable US FDA 21-CFR food and beverage contact regulations.
- LifeASSURE BBA filter cartridges are stable with most cleaning and sanitization regimes.
- The LifeASSURE BBA 0.45 µm and 0.65 µm filter cartridges are tested in accordance to NSF Standard 401 for microplastics reduction (≥ 85% efficiency for particles ≥ 0.5µm).

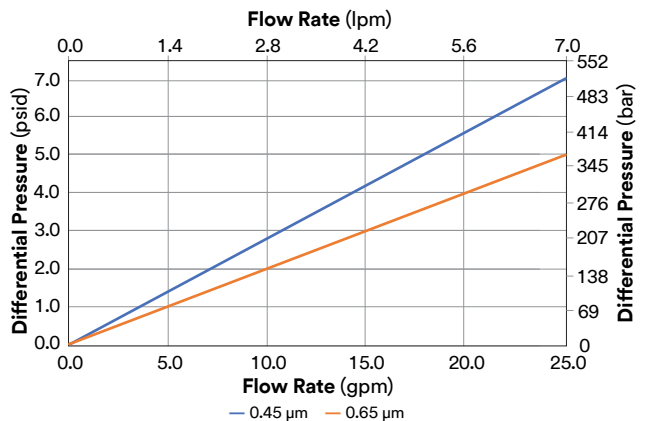
## Materials of Construction

Component	Materials
Membrane	Polyethersulfone
Support Layers	Polypropylene
Inner Core, Outer Cage, End Caps	Polypropylene
End Cap Adapters	Polypropylene with or without embedded stainless steel reinforcing ring
O-Rings	Silicone or EPR

LifeASSURE BBA Filter Cartridges	Microorganisms	Typical Log Reduction Value (LRV)
BBA 0.45 µm	<i>Lactobaccillus Brevis</i>	7
BBA 0.65 µm	<i>Saccharomyces cerevisiae</i>	7

Log Reduction Values are calculated using the following formula:

$$LRV = \log \left( \frac{\text{total number of organisms entering the filter cartridge}}{\text{total number of organisms exiting the filter cartridge}} \right)$$



# Ordering Guide

Cartridge	Ratings (µm)	Cartridge Diameter	Length (inches)	End Modification	O-ring/ Gasket Material	Adapter Insert
3M™ LifeASSURE™ BBA Series Filter Cartridge	045 – 0.45 065 – 0.65	A	01 – 10 02 – 20 03 – 30 04 – 40	B – 226 O-Rings & Spear C – 222 O-Rings & Spear	A – Silicone C – EPR	0 = No Insert 2 = SS Insert

BBA045A01BA0 - LifeASSURE BBA, 10in, 0.45um, 226 with spear endcap and silicone o-ring.

## Technical Data and Operating Parameters

### Nominal Filter Cartridge Dimensions

Effective Filtration Area (10" Element)	6.1 ft. <sup>2</sup> (0.56 m <sup>2</sup> )
Filter Cartridge Diameter	2.72" (69 mm)
Filter Cartridge Lengths	10" (254 mm), 20" (508 mm), 30" (762 mm), 40" (1016 mm)

### Operating Parameters

Recommended Flow Rate (10" element)	Beer: 1-2 gpm (3.8-7.6 Lpm) Wine: 2-3 gpm (7.6-11.4 Lpm)
Maximum Forward Differential Pressure	80 psid @ 77°F (5.5 bar @ 25°C) 35 psid @ 194°F (2.4 bar @90°C)
Maximum Hot Water Sanitizing Temperature	194°F (90°C) – 75 hrs. (1gpm, 10 psi)
Steam Sanitizing Temperature	266°F (130°C) – 150, 30-minute cycles
NaOH Cleaning Duration	1M Conc. @ 131°F (55°C) - 100 hrs.
Peracetic Acid Sanitizing (27% hydrogen peroxide, 5.0% peracetic acid)	1% Conc. @ 77°F (25°C) - 100 hrs.
Potassium Metabisulfite	2oz/gal @ 77°F (25°C) - 100 hrs.
Ethyl Alcohol, v/v (ethanol)	70% Conc. @ 77°F (25°C) - 100 hrs.

	BBA045 (0.45 µm)	BBA065 (0.65 µm)
Forward Flow Test Pressure	16 psi (1.1 bar)	4.5 psi (0.2 bar)
Maximum Diffusion (10" element)	≤ 24 sccm	≤ 7 sccm
Minimum Bubble Point	≥ 1.4 bar (20.3 psi)	≥ 0.4 bar (5.8 psi)
Pressure Hold Test	Consult Purification and Filtration representative	Consult Purification and Filtration representative

**Intended Use and Product Selection:** LifeASSURE BBA series filter products are intended for use in food and beverage filtration of aqueous fluids in accordance with the applicable product instructions and specifications. LifeASSURE BBA series filter products are also intended for use with non-aqueous fluids where materials of construction are compatible. Since there are many factors that can affect a product's use, the customer and user remain responsible for determining whether the Solventum product is suitable and appropriate for the user's specification, including user conducting an appropriate risk assessment and evaluating the Solventum product in user's application.

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## Compliance

### Standard

ISO 9001: 2015 Certified Quality Management System

100% diffusion flow tested prior to shipment

Materials of construction comply with USA FDA 21 CFR.\*

Tested in accordance to NSF Standard 401 for microplastics reduction (≥ 85% efficiency for particles ≥ 0.5um)

The wetted component materials, when used in accordance with Solventum product intended uses and instructions, have been evaluated and found to comply to USA FDA 21 CFR sections 170-186 for food contact applications. For details related to specific use conditions or limitations for food contact applications please contact your Solventum representative for more information.

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Solventum, formerly 3M Health Care

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