

# BEVPOR BR Brewing

Filter Cartridges



BEVPOR BR beer filters protect the unique characteristics of beer by removing yeast and other spoilage organisms to ensure microbial stability during cold stabilization.

The inert and highly asymmetric PES membrane provides validated microbial retention to typical spoilage organisms, whilst protecting the beer's organoleptic qualities to preserve a fresh taste and a long shelf-life once packaged.

The incorporation of an active prefilter layer, combined with an increased filtration area provides high beer flow rates, greater resistance to blockage and maximized service lifetime.

BEVPOR BR filters have been designed to provide the optimum solution to beer stabilization by providing increased process control with maximized operational efficiency.

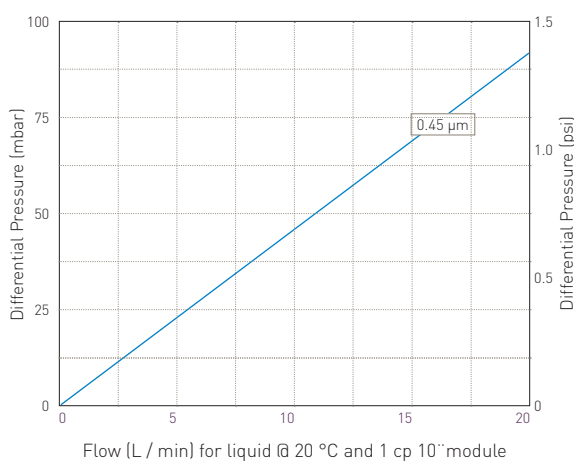
## Features

- Validated retention to spoilage organisms
- Inert materials of construction
- Easily integrity tested in-situ
- Integral depth prefiltration layer
- High filtration area (0.8m<sup>2</sup> / 10" cartridge)
- Optimised PES membrane structure

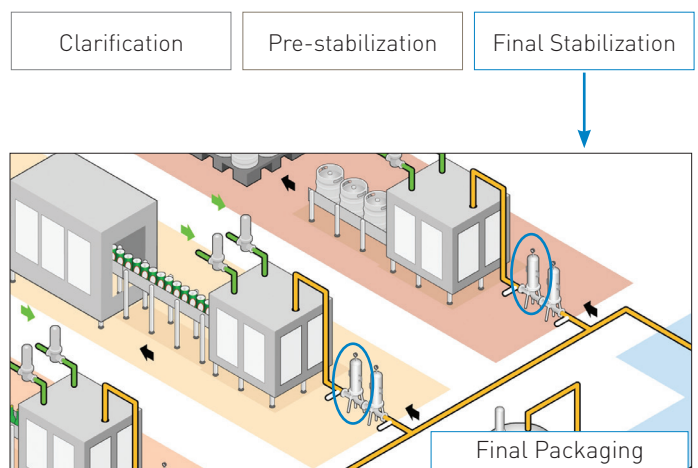
## Benefits

- Ensures effective microbial stabilization of beer
- Preserves the organoleptic qualities of the beer
- Assured filtration performance
- Increased throughput to blockage
- Maximized operational efficiency
- Maximum throughput to blockage

## Performance Characteristics



## Filtration Stage



## Specifications

### Materials of Construction

Filtration Membrane:	Polyethersulphone
Prefilter Layer:	Polyester
Upstream Support:	Polyester
Downstream Support:	Polyester
Inner Support Core:	Polypropylene
Outer Protection Cage:	Polypropylene
End Caps:	Nylon
End Cap Insert:	316L Stainless Steel
O-rings:	Silicone, EPDM

### Food Contact Compliance

Materials conform to the relevant requirements of FDA 21 CFR Part 170-199 and European Regulation EC1935 / 2004.



### Recommended Operating Conditions

Up to 70 °C (158 °F) continuous operating temperature and higher short-term temperatures during CIP to the following limits:

Temperature °C	°F	Max Forward dP (bar)	(psi)
20	68	5.0	72.5
40	104	4.0	58.0
60	140	3.0	43.5
80	176	2.0	29.0
90	194	1.0	14.5
>100 (steam)	>212 (steam)	0.3	4.0

### Effective Filtration Area (EFA)

10" (250 mm) Up to 0.8 m<sup>2</sup> (8.61 ft<sup>2</sup>)

### Cleaning and Sterilization

BEVPOR BR cartridges can be repeatedly steam sterilized in-situ or autoclaved at up to 130 °C (266 °F). They can be sanitized with hot water at up to 90 °C (194 °F) and are compatible with a wide range of chemicals. Please refer to our Clean-in-Place support guide or contact your local Parker representative for more information.

### Retention Characteristics

The retention characteristics of BEVPOR BR filters have been validated by challenges performed with the following organisms.

Organism	Titre reduction when challenged with a minimum of 10 <sup>7</sup> cfu per cm <sup>2</sup>
<i>Saccharomyces cerevisiae</i>	>10 <sup>7</sup> /cm <sup>2</sup>
<i>Brettanomyces bruxellensis</i>	>10 <sup>7</sup> /cm <sup>2</sup>
<i>Lactobacillus brevis</i>	>10 <sup>7</sup> /cm <sup>2</sup>
<i>Lactobacillus lindneri</i>	>10 <sup>7</sup> /cm <sup>2</sup>
<i>Pediococcus damnosus</i>	>10 <sup>7</sup> /cm <sup>2</sup>

### Integrity Test Data

All filters are flushed with pharmaceutical grade purified water prior to despatch. They are integrity tested to the following limits:

#### Diffusional Flow Test Parameters

Test Pressure (mbar)	1240
Max Diffusional Flow per 10" (ml/min)	26.9

### Manufacturing Traceability

Each filter cartridge displays the product name, product code and lot number. Additionally, each module displays a unique serial number providing full manufacturing traceability.

## Ordering information

BBR	-		-		A		
Code	Length (Nominal)	Code	Micron	Code	End Cap (10 inch)	Code	O-rings
1	10" (250 mm)	04	0.45 µm	C	Fin / 226 Bayonet	S	Silicone
2	20" (500 mm)			D	Fin / 222	E	EPDM
3	30" (750 mm)			E	Flat top / 222		
4	40" (1000 mm)			R	Fin / 222 Bayonet		

VSH & HSL  
HOUSING RANGE  
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