





BEVPOR PS 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. Combined with hydrophilic properties for easy integrity testing, BEVPOR PS filters provide assured performance throughout their service life.

BEVPOR PS filters have been designed to provide a cost effective solution to beer stabilization by providing increased process control with increased operational efficiency.

### **Features**

Validated retention to spoilage organisms

Inert material of construction

Easily integrity tested in-situ

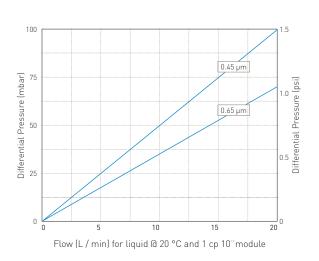
### Benefits

Ensures effective microbial stabilization of beer

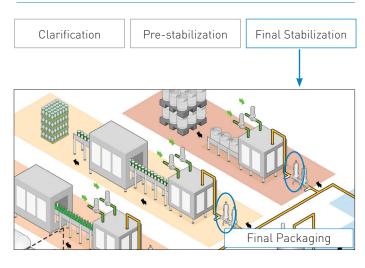
Preserves the organoleptic qualities of the beer

Assured filtration performance

## Performance Characteristics



# Filtration Stage





## Specifications

#### Materials of Construction

Filtration Membrane: Polyethersulphone
 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 177, current EC1935 / 2004 and current USP Plastics Class VI - 121 °C.

#### **Recommended Operating Conditions**

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

Temperature		Max Fo	rward dP
°C °F		(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 0.6 m<sup>2</sup> (6.45 ft<sup>2</sup>)

#### Cleaning and Sterilization

BEVPOR PS 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 PS filters have been validated by challenges performed with the following organisms.

Organism	LRV whe	LRV when challenged with a minimum of 10 <sup>7</sup> cfu per cm <sup>2</sup>		
		0.45	0.65	
Saccharomyces of	rerevisiae	FR	FR	
Brettanomyces bruxellensis		FR	FR	
Lactobacillus brevis		FR	FR	
Acetobacter oeni		FR	FR	
Pseudomonas aeruginosa		9.1	8.9	
Serratia marcescens		FR	FR	

\*FR - Fully retentive during challenge

When expressed as titre reduction "FR" equates to >10" per 10" module.

#### Integrity Test Data

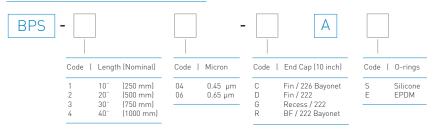
All filters are flushed with pharmaceutical grade purified water prior to despatch. They are integrity tested to the following limits:

Diffusional Flow	Micron Rating		
Test Parameters	0.45	0.65	
Test Pressure (barg)	1.4	1.0	
Test Pressure (psig) Max Diffusional	20.0	15.0	
Flow per 10" (ml /min)	16.0	16.0	

#### 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



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