# BEVPOR PS Bottled Water

Filter Cartridges





BEVPOR PS filters ensure the microbiological safety of bottled water whilst protecting the purity and essential characteristics of the source water.

The inert and highly asymmetric PES membrane provides validated microbial retention to industry regulated contaminating organisms. 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 costeffective solution to the microbial stabilization of bottled water by providing increased process control with increased operational efficiency.

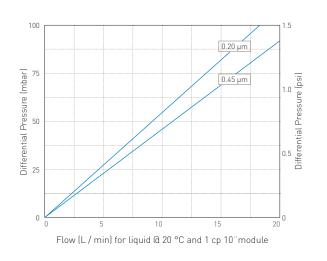
## Features

- Validated retention to industry regulated micro-organisms
- Inert material of construction
- Easily integrity tested in-situ

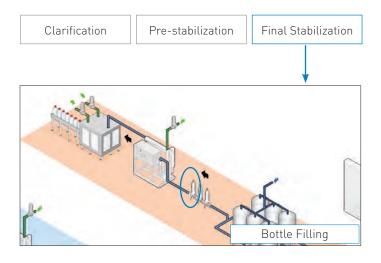
### Benefits

- I Ensures the safety of the water prior to bottling
- Protects the purity and essential characteristics of the source water
- Assured filtration performance

### Performance Characteristics



## Filtration Stage



## BEVPOR PS Bottled Water

### 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

limits:



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

Temperature		Max Forward 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**

0.2µm BEVPOR PS filters have been validated to provide sterile effluent after bacterial challenge testing following ASTM F838-05 methodology on 10" cartridges with more than 10<sup>7</sup>cfu per 10" cartridge using *Brevundimonas diminuta*.

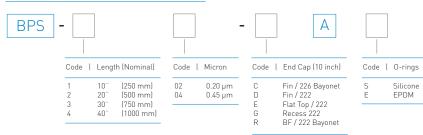
In addition, challenges with the following EU regulated organisms have been performed.

Organism	LRV wh minimu	LRV when challenged with a minimum of 10 <sup>7</sup> cfu per cm <sup>2</sup>		
		0.20	0.45	
Serratia marceso	cens	FR	FR	
Escherichia coli		FR	FR	
Enterococcus faecalis		FR	FR	
Clostridium perfringens		FR	FR	
Pseudomonas aeruginosa		FR	9.1	
Brevundimonas diminuta		5	-	

\*FR - Fully retentive during challenge

When expressed as titre reduction "FR" equates to >10<sup>°</sup> per 10<sup>°</sup> module.

### Ordering information



#### 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	Micron Rating 0.20 0.45	
Test Pressure (barg) Test Pressure (psig) Max Diffusional	1.7 25.0	1.4 20.0
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.



Parker domnick hunter has a continuous policy of product development and although the Company reserves the right to change specifications, it attempts to keep customers informed of any alterations. This publication is for general information only and customers are requested to contact our Process Filtration Sales Department for detailed information and advice on a products suitability for specific applications. All products are sold subject to the company's standard conditions of sale.