BEVPOR PW Bottled Water

Filter Cartridges





BEVPOR PW 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 PW filters provide assured performance throughout their service life.

The incorporation of an integral prefilter layer allows graded retention throughout the depth of the filter to resist blockage, resulting in increased capacity and long service lifetime.

BEVPOR PW 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 materials of construction

Easily integrity tested in-situ

Integral depth prefiltration layer

Benefits

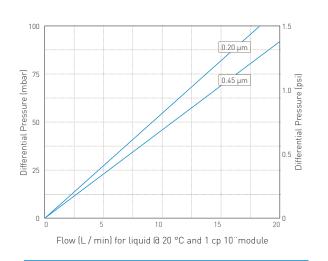
Ensures the safety of the water prior to bottling

Protects the purity and essential characteristics of the source water

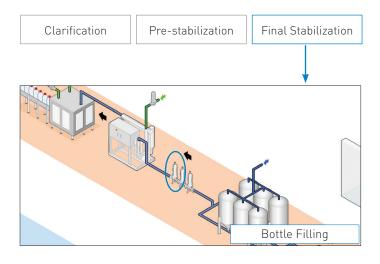
Assured filtration performance

Increased throughput to blockage

Performance Characteristics



Filtration Stage



BEVPOR PW Bottled Water

Specifications

Materials of Construction

- Filtration Membrane: Polyethersulphone Polyester
- Prefilter Layer:
- Upstream Support:
- Downstream Support:
- Inner Support Core:
- Outer Protection Cage:
- End Caps:
- End Cap Insert:
- O-rings:
- Polypropylene Polypropylene

Polyester

Polyester

Nylon 316L Stainless Steel

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 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 m² (6.45 ft²)

Cleaning and Sterilization

BEVPOR PW 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 PW filters have been validated to provide sterile effluent after bacterial challenge testing following ASTM F838-05 methodology on 10" cartridges with more than 107cfu per 10" cartridge using Brevundimonas diminuta.

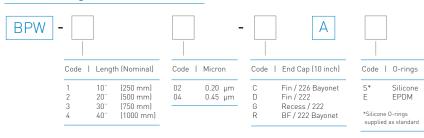
In addition, challenges with the following EU regulated organisms have been performed.

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

*FR - Fully retentive during challenge

When expressed as titre reduction "FR" equates to >10" per 10" 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	Micron Rating	
Test Parameters	0.20	0.45
Test Pressure (barg)	1.7	1.4
Test Pressure (psig)	25.0	20.0
Max Diffusional		
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 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 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.

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