BEVPOR PH Bottled Water

Filter Cartridges





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

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

BEVPOR PH filters have been designed to provide the optimum 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

High filtration area

Benefits

Ensures the safety of the water prior to bottling

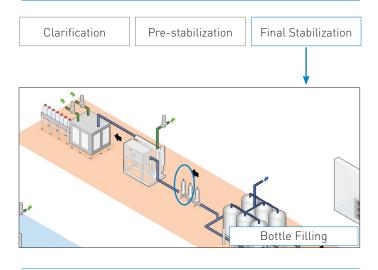
Protects the purity and essential characteristics of the source water

Assured filtration performance

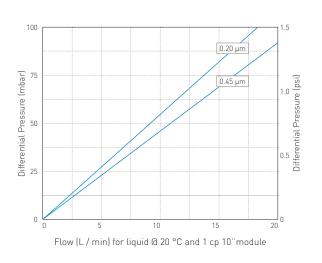
Increased throughput to blockage

High water flow and maximized operational efficiency

Filtration Stage



Performance Characteristics



BEVPOR PH 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 Nvlon

Polyester

Polyester

- 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 0.8 m² (8.61 ft²)

Cleaning and Sterilization

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

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

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

*FR - Fully retentive during challenge

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

Integrity Test Data

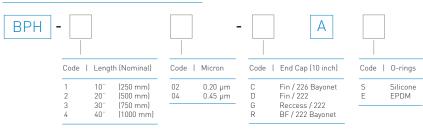
All filters are flushed with pharmaceutical grade purified water prior to despatch. They are integrity tested to the following limits:

Diffusional Flow 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)	21.0	21.0

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





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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