





BEVPOR PS cider filters protect the unique characteristics of cider 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 cider'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 costeffective solution to cider 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

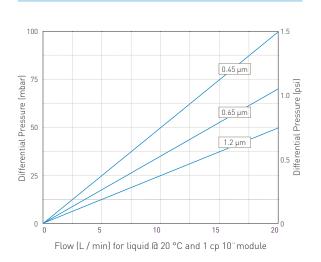
Benefits

Ensures effective microbial stabilization of cider

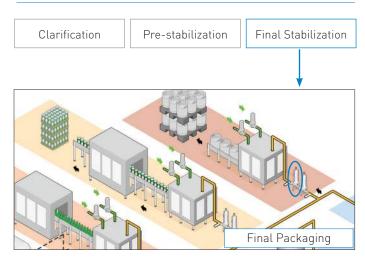
Preserves the organoleptic qualities of the cider

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

Food Contact Compliance

■ 0-rings:

Materials conform to the relevant requirements of FDA 21 CFR Part 177, current EC1935 / 2004 and current USP Plastics Class VI - 121 °C.

Silicone / EPDM

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 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 when challenged with a minimum of 107 cfu per cm² 0.45 0.65 1.2 Saccharomyces cerevisiae FR FR FR FR FR FR Lactobacillus brevis FR FR FR -Acetobacter oeni FR FR FR -Pseudomonas aeruginosa 9.1 8.9 -					
Saccharomyces cerevisiae FR FR FR Brettanomyces bruxellensis FR FR FR Lactobacillus brevis FR FR - Acetobacter oeni FR FR - Pseudomonas aeruginosa 9.1 8.9 -	Organism	LRV wh	LRV when challenged with a minimum of 10 ⁷ cfu per cm ²		
Brettanomyces bruxellensis FR FR FR Lactobacillus brevis FR FR - Acetobacter oeni FR FR - Pseudomonas aeruginosa 9.1 8.9 -			0.45	0.65	1.2
Serratia marcescens FR FR -	Brettanomyces bruxellensis Lactobacillus brevis Acetobacter oeni Pseudomonas aeruginosa		FR FR FR	FR FR FR	

*FR - Fully retentive during challenge

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

Integrity Test Data

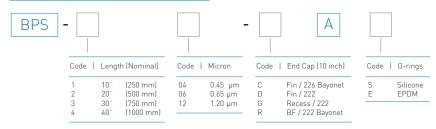
All filters are flushed with pharmaceutical grade purified water prior to despatch. They are integrity tested to the following limits:

Diffusional Flow	Micron Rating			
Test Parameters	0.45	0.65	1.2	
Test Pressure (barg)	1 4	1.0	0.6	_
Test Pressure (psig)	20 N	15 N	9 N	
Max Diffusional	20.0	15.0	7.0	
Flow per 10" (ml/min)	16.0	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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