

Ultradepth II® P-BE

Depth filter for sterile ventilation of storage tanks

Product Description

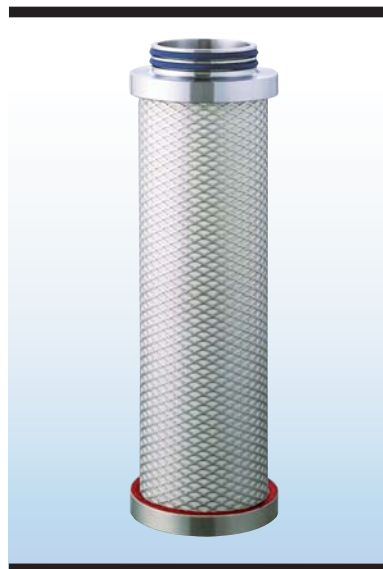
The Ultradepth II P-BE element is a wound, depth filter with inner and outer support cores and end caps of stainless steel. Retention rate is 99.999% related to 0.01 µm. Ultradepth II P-BE 3-dimensional borosilicate depth media has a large void volume of 95%. This ensures a high containment capacity and low differential pressure at a high flow rate. The filter media is inherently hydrophobic.

Features

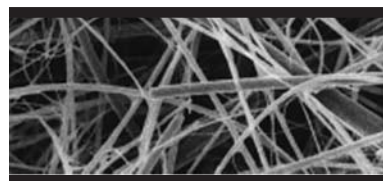
All components meet FDA requirements for food contact in accordance with CFR (Code of Federal Regulations) Title 21. Ultradepth II P-BE filter elements have passed the toxicological tests according to USP XX Class VI for plastics. The filter element corresponds to cGMP* requirements and is manufactured according to DIN EN ISO 9001. The filter media is non-fiber-releasing and is manufactured without the use of binders or other chemical additives.

Applications

- Chemical industry
- Pharmaceutical industry
- Cosmetic industry
- Dairies
- Water treatment systems
- Aseptic packaging
- Biotechnology
- Breweries
- Food and beverage
- Fermentation processes



Ultradepth II P-BE filters allow for sterile ventilation of stationary and mobile storage tanks, and have been proven in thousands of applications.



SEM of Ultradepth II media

Features	Benefits
High-quality stainless steel construction	High mechanical and thermal stability, good durability range against chemicals and numerous aggressive gases
Absolute retention rate of 99.999% related to 0.01 µm	Validated retention rate, integrity testable with DOP test according to HIMA
Manufactured in accordance with cGMP and DIN EN ISO 9001	Constant product quality, high operational and process safety
Three-dimensional borosilicate depth filter media	High-waste containment capacity, low differential pressure, high flow rate
Biologically inert	No breeding ground for separated microorganisms
	Highly economical and low filtration costs
	Guaranteed quality
	Optimum filter size for the individual application
End caps	Temperature range from -4°F to 390°F, sterilizable at a steam temperature of up to 290°F



Filter Products Company

Richmond, VA
<http://fpcfilters.com>
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* cGMP = Current Good Manufacturing Practices

Dimensions						
Element size	A (inches)	B (inches)	ØC* (inches)	ØD* (inches)	Correction Factor**	
03/10	3	0.47	1.2	1.65	0.12	
05/25	5	0.55	1.5	2.44	0.32	
05/30	5	0.63	2.5	3.89	0.46	
10/30	10	0.63	2.5	3.89	1.00	
20/30	20	0.63	2.5	3.89	2.10	
30/30	30	0.63	2.5	3.89	3.28	

*Plug-type connection with double o-ring

**Correction factor filtration surface

Materials	
Filter medium:	Borosilicate
Outer core:	304 stainless steel
Inner core:	304 stainless steel
Supporting fabric:	Polyester
Endcaps:	304 stainless steel
Bonding material:	Silicone
O-Rings:	Silicone (standard), Buna N, EPDM or Viton®

*Viton is a registered trademark of E.I. du Pont de Nemours and Company

Bacterial retention
LRV > 7/cm² for T1 Coliphagen

Filtration surface
1/2 ft² for 10" element (10/30)
For other sizes see correction factor

Sterilization
In-line sterilization with slow speed saturated steam
max. 250°F for 30 minutes
max. 270°F for 20 minutes
max. 290°F for 10 minutes
Autoclave
260°F for 30 minutes

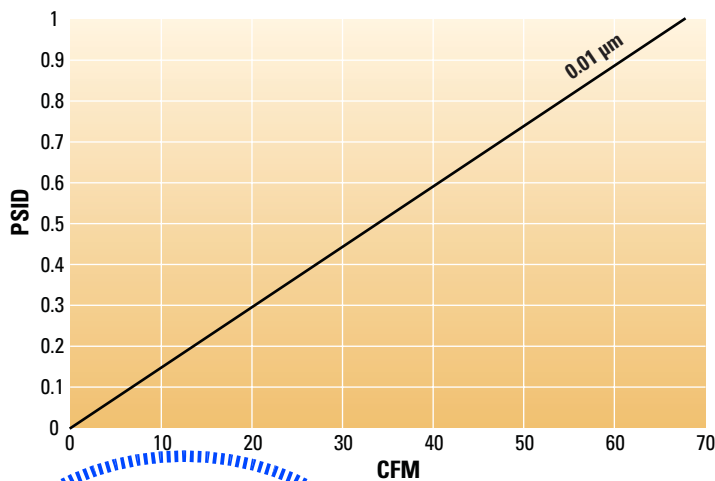
Ultradept II® filter elements are guaranteed for 100 sterilization cycles without loss of integrity

Temperature range
-4°F to 390°F*

*> 300°F only for dry compressed air

Absolute retention rate
99.999% related to 0.01 µm

P-BE Pressure Drop per Ten Inch Equivalent (TIE) — Air



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