

Van Borselen P-BE

The P-BE is a wound depth filter with inner and outer guard end caps made of stainless steel. Consisting of a threedimensional borosilicate depth media, the P-BE achieves a void volume of 95 %, ensuring a high containment capacity at high flow rates and low differential pressure. A retention rate of > 99.999 % related to 0.01 µm is achieved during operation.

All components meet the FDA requirements for the contact with food in accordance with the CFR requirements (code of federal regulations) tilte 21.

Features and advantages

- Non-fibre releasing filter element.
- Manufactured without use of binders or other chemical additives.
- Corresponds to cGMP requirements (current Good Manufacture Practice) and is manufactured according to DIN EN ISO 9001.
- P-BE has passed the toxicological test according to USP XX Class VU for plastics.

Applications

- Chemical Industry
- Aseptic packing
- Pharmaceutical Industry Water treatment systems
- Biotechnology
- Cosmetics Industry
- Breweries

- Dairies
- Food and beverages
- Fermentation processes

P-BE vent filter

Features	Benefits:	
Outer guard and endcaps made of stainless steel	High mechanical and thermal stability, good durability against chemicals and numerous aggressive gases.	
Absolute retention rate of 99.999% related to 0.01 µm	Validated retention rate, intergrity testable with DOP test according to HIMA	
Three-dimensional borosilicate depth filter media	High waste containment capacity, low differential pressure, high flow rate	
Biologically and chemically inert	No breeding ground for separated microorganism	
100 sterilization cycles guaranteed	High economical efficiency and low filtration costs	
100% integrity tested	Guaranteed quality	
Available in 6 sizes	Optimum filter size for indivdual application	
Stainles steel core and end-caps	Temperature range from -20 °C up to 200 °C	

Bacterial retention

LRV > 7/cm² for T1 Coliphagen

Filtration surface

494 cm2 per 10" element (10/30) (250 mm)

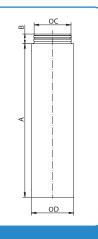
Bacterial retention

-20 °C to 200 °C

Absolute retention rate

99.999% related to $0.01 \mu m$

Dimensions						
Element Size	A mm	B mm	ØC	ØD mm	Correction Factor	
03/10	76	12	3/4"	42	0,12	
05/25	128	14	1"	62	0,32	
05/30	128	16	2"	86	0,46	
10/30	254	16	2"	86	1,00	
20/30	508	16	2"	86	2,10	
30/30	762	16	2"	86	3,28	



Materials Filter media Borosilicate SS 1.4301 Outer core SS 1.4301 Inner core Supporting fabric Polyester **Endcaps** SS 1.4301 Bonding material Silicone O-Rings Silicone (stand.), Buna N, EPDM or Viton

Sterilization

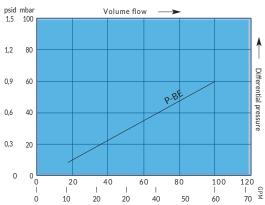
In-line sterilization with slow speed saturated steam:

max. 121°C for 30 minutes max. 131°C for 20 minutes max. 141°C for 10 minutes

Autoclave: 125°C for 30 minutes

P-BE filter elements are guaranteed for 100 sterilization cycles without loss of integrity.

Flow rate of a 10" P-BE element at 1 bar



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