

# ***Process filter P-BE***

## ***Sterile depth filter for storage tanks***



### **ultrafilter P-BE**

n The P-BE is a wounded depth filter with inner and outer guard end caps made of stainless steel. Consisting of a three-dimensional 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.

n 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**

- n Non-fibre releasing filter element.
- n Manufactured without use of binders or other chemical additives.

- n Corresponds to cGMP requirements (current Good Manufacture Practice) and is manufactured according to DIN EN ISO 9001.
- n P-BE has passed the toxicological test according to USP XX Class VU for plastics..

### **Applications**

- n Chemical Industry
- n Aseptic packing
- n Pharmaceutical Industry
- n Biotechnology
- n Cosmetics Industry
- n Breweries
- n Dairies
- n food and beverages
- n Water treatment systems
- n Fermentatio

# 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, integrity 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 individual application
Stainless 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)

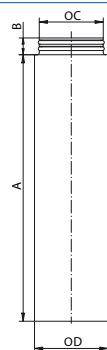
Temperature range
-20 °C to 200 °C

Absolute retention rate
99.999 % related to 0.01 µm

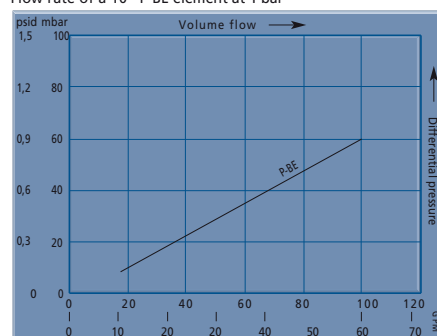
Materials:	
Filter media	Borosilicate
Outer core	SS 1.4301
Inner core	SS 1.4301
Supporting fabric	Polyester
Endcaps	SS 1.4301
Bonding material	Silicone
O-Rings	Silicone (stand.), Buna N, EPDM or Viton

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.

Dimensions:					
Element size	A mm	B mm	Ø C*	Ø D mm	CF
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



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





**Kronsbein ultrafilter®**

## ABOUT US

The ultrafilter group is a privately owned family company. Founded by Dipl. Ing. Dean Kronsbein in Germany, the group now serves the global filtration market with local presence throughout Europe, the Americas, Asia and Australia.

With the help of our products from ultrafilter GmbH in Germany, world renowned, market leading companies have made ultrafilter GmbH their first choice for the Purification of compressed air, technical gases and liquids.

Our passion to manufacture superior and innovative products is the guarantee for cost effective and reliable filtration solutions.



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