



ULTRAFILTER
THE FILTRATION MANUFACTURER

Kronsbein ultrafilter®



Process filter P-BE
Sterile depth filter for
storage tanks

P-BE vent filter

Ultrafilter P-BE

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.

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

Features and benefits

- Non-fiber 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 and Petrochemical Industry
- Pharmaceutical Industry
- Biotechnology
- Cosmetics Industry
- Breweries and Dairies
- food and beverages
- Water treatment systems
- Fermentation processes

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 to 200°C

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



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P-BE vent filter

Bacterial retention:

LRV > 7/cm² for T1 Coliphagen

Temperature range:

-20 °C to 200 °C

Sterilisation:

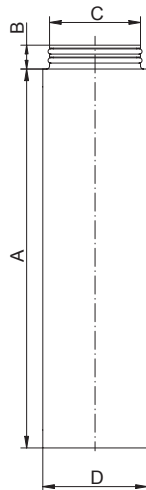
In-line sterilization with slow speed saturated steam:
 max. 121°C für 30 Minuten
 max. 131°C für 20 Minuten
 max. 141°C für 10 Minuten

Autoclave: 125°C for 30 minutes

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

Sterilization

Element size	A mm	B mm	Ø C mm	Ø D mm	Correction foactor
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

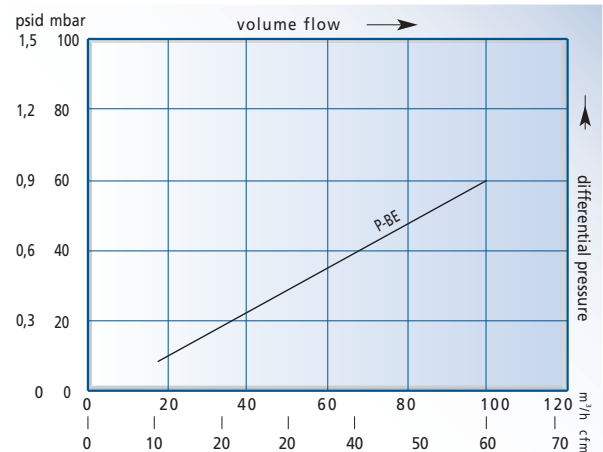


Filtration surface:

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

Absolute retention rate:

99.999 % related to 0.01 µm



Technical Alternations reserved



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Technische Änderungen vorbehalten



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