ULTRAFILTER

Kronsbein ultrafilter



Process Filter P-SRF-CU Sterile Depth Filter for Process Air & Gases

P-SRF-CU sterile filter

Ultrafilter P-SRF-CU

The P-SRF-CU is a pleated depth filter with inner and outer guard end caps made of stainless steel. Consisting of a three-dimensional borosilicate depth media, the P-SRF-CU achieves a void volume of 95%, ensuring a high containment capacity at high flow rates and low differential pressure. A retention rate of > 99.99999995% related to 0.2 µm > 99.99999995% related to 0.02 µm is achieved during operation. The retention for nano-sized particles (0.003 µm) is larger than 99.999999991% as verified in a DIN EN 1822 adopted test.

All components meet the FDA requirements for the indirect contact with food in accordance with the CFR requirements (code of federal regulations) title 21 and EC/1935/2004 for indirect food contact use.

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-SRF-CU has passed the toxicological test according to USP Class VI for plastics.
- High temperature and mechanical resistance for outstanding performance, minimized maintain costs and production down time
- High retention rate (bacteria, viruses and particles) down to 3 nanometers to ensure product and process integrity

Features	Benefits
Outer guard and endcaps made of stainless steel	High mechanical and thermal stability, good durability against chemicals and numerous aggressive gases.
Retention rates of: 99.99999995 % related to 0.2 µm 99.99999995 % related to 0.02 µm 99.999999991 % related to 0.003 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
160 sterilization cycles guaranteed	High economical effency and low filtration costs
100% integrity tested	Guaranteed quality
Available in 13 sizes	Optimum filter size for indivdual application
Stainles steel core and end-caps	Temperature range from -20 °C (-4°F)up to 200 °C (392°F)

Applications

- Aseptic packing
- Biotechnology
- Breweries
- Chemical industry
- Dairies
- Fermentation processes
- Food and beverages
- Pharmaceutical industry

Materials	
Filter media	Borosilicate
Impregnation	PTFE
Outer core	SS 1.4301 (304)
Inner core	SS 1.4301 (304)
Inner layer	SS 1.4301 (304)
End caps	SS 1.4301 (304)
Bonding material	Silicone

ULTRAFILTER
THE FILTRATION MANUFACTURER
Kronsbein ultrafilter ®

Ultrafilter GmbH
Im Hülsenfeld 13 • 40721 Hilden • Germany
Tel: +49 (0) 21 03.33 36 0 • Fax +49 (0) 21 03.33 36 36
e-Mail: info@ultra-filter.de • www.ultra-filter.de

P-SRF-CU sterile filter

Max. Differential Pressure:

5 bar , independent of operating pressure of flow direction.

Filtration Surface:

0,84 m² (9,04ft²)per 10" element (10/30) (254 mm)

Temperature range:

-20 °C (-4°F) to 200 °C (392°F)

Retention Rate:

99.99999995 % related to 0.2 µm (0.2 ppm)
99.99999995 % related to 0.02 µm (0.2 ppm)
99.999999991 % related to 0.003 µm (0.003 ppm)

Sterilization:

In-line sterilization with slow speed saturated steam:
max. 121°C (249°F) for 30 minutes
max. 131°C (267°F) for 20 minutes
max. 141°C (285°F) for 10 minutes

Autoclave: 125°C (257°F) for 30 minutes

P-SRF-CU filter elements are guaranted for 160 sterilization cycles without loss of integrity.

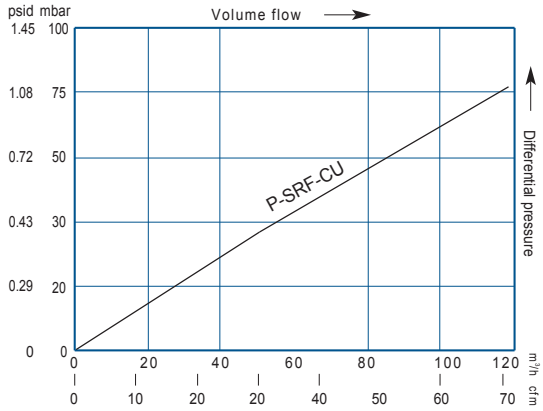
Bacterial Retention:

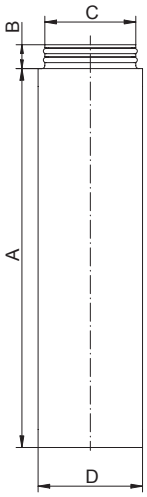
Brevundimonas Diminuta (≥ 0.2 µm)	LRV > 9
MS2 Coliphagen (≥ 0.02 µm)	LRV > 9
Nano-Sized Partikels (≥ 0.003µm)	LRV > 10

Dimensions

element size	A		B		Ø C		Ø D		correction factor
	mm	inch	mm	inch	mm	inch	mm	inch	
03/10	76	3	11	0,44	30	1,19	42	1,66	0,15
04/10	104	4,1	14	0,56	30	1,19	42	1,66	0,20
04/20	104	4,1	14	0,56	37	1,46	52	2,05	0,20
05/20	128	5,04	14	0,56	37	1,46	52	2,05	0,25
05/25	128	5,04	14	0,56	37	1,46	62	2,45	0,34
05/30	128	5,04	14	0,63	61	2,41	86	3,39	0,49
07/25	180	7,09	14	0,56	37	1,46	62	2,45	0,49
07/30	180	7,09	16	0,63	61	2,41	86	3,39	0,70
10/30	254	10,01	16	0,63	61	2,41	86	3,39	1,00
15/30	381	15,01	16	0,63	61	2,41	86	3,39	1,51
20/30	510	20,08	16	0,63	61	2,41	86	3,39	2,02
30/30	764	30,08	16	0,63	61	2,41	86	3,39	3,03
30/50	764	30,08	16	0,63	89	3,51	140	5,51	5,89

Flow rate of a 10'' P-SRF-CU element at 8 bar abs.





Technical Alternations reserved.

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