



ULTRAFILTER
THE FILTRATION MANUFACTURER

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.

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, 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
200 sterilization cycles guaranteed	High economical efficiency and low filtration costs
100% integrity tested	Guaranteed quality
Available in 13 sizes	Optimum filter size for individual application
Stainless steel core and end-caps	Temperature range from -20 °C up to 200 °C

- 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 XX Class VU 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
- Suitable for sterilization using VPHP an ozone

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
Inner core	SS 1.4301
Inner layer	SS 1.4301
End caps	SS 1.4301
Bonding material	Silicone



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Max. differential pressure:

5 bar, independent of operating pressure of flow direction.

Temperature range:

-20 °C to 200 °C

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-SRF-CU filter elements are guaranteed for 200 sterilization cycles without loss of integrity.

Filtration surface:

8400 cm² per 10" element (10/30) (254 mm)

Retention rate:

99.9999995 % related to 0.2 µm
 99.9999995 % related to 0.02 µm
 99.9999991 % related to 0.003 µm

Bacterial retention:

Brevundimonas Diminuta (≥ 0.2 µm) LRV > 9

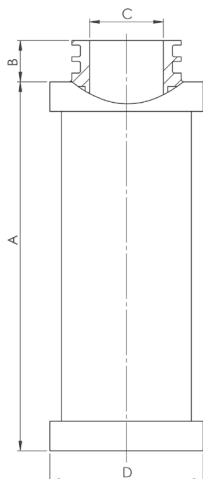
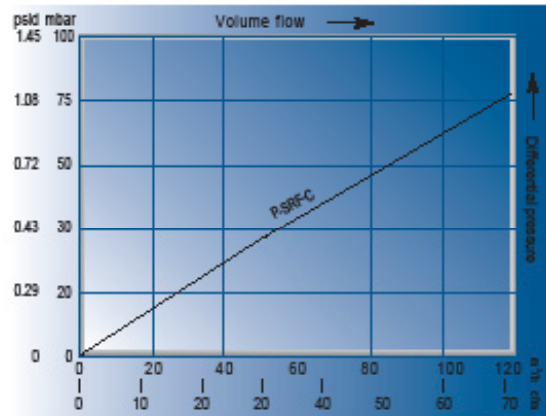
MS2 Coliphagen (≥ 0.02 µm) LRV > 9

Nanoskalige Partikel (≥ 0.003µm) LRV > 10

Dimensions

element size	A mm	B mm	Ø C mm	Ø D mm	correction factor
03/10	76	12	3/4"	42	0,12
04/10	104	12	3/4"	42	0,17
04/20	104	14	1"	52	0,19
05/20	104	14	1"	52	0,19
05/25	128	14	1"	62	0,32
05/30	128	16	2"	86	0,46
07/25	180	14	1"	62	0,47
07/30	180	16	2"	86	0,68
10/30	254	16	2"	86	1,00
15/30	381	16	2"	86	1,55
20/30	508	16	2"	86	2,10
30/30	762	16	2"	86	3,28
30/50	762	16	2"	140	5,89

Flow rate of a 10" SRF-C element at 8 bar abs.



Technical Alternations reserved.



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