

Sterile filter P-SRF

The sterile depth filter for compressed or process air and technical gases.

Product description:

The P-SRF filter is a wounded depth filter with inner and outer guard end caps made from stainless steel. The retention rate is 99.99998% related to 0,2 µm. The P-SRF binder-free, threedimensional borosilicate depth media has a large void volume of 95%. This ensures a high dirt containment capacity at a low differential pressure and a high flow rate. The filter media is inherently hydrophobic.

Features:

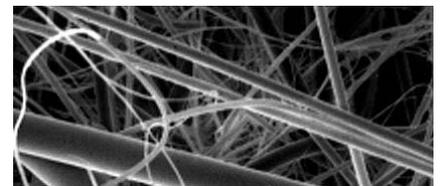
All components meet the FDA requirements for the contact with food in accordance with the CFR requirements (code of Federal Regulations), title 21.

P-SRF filter elements have passed the toxicological tests according to USP XX Class VI for plastics. The filter element corresponds to the cGMP requirements (current Good Manufacturer practice) and is manufactured according to DIN EN ISO 9001. The filter medium is nonfiber releasing and manufactured without the use of binders or other chemical additives.

Sterile filter P-SRF - ensures a safe operation and is proven thousands of times in application



REM of the P-SRF filter media



Applications:

The P-SRF sterile filters are, among others, designed and developed for the following applications:

- Chemical industry
- Pharmaceutical industry
- Biotechnology
- Breweries
- Dairies
- Aseptic packaging
- Food industry
- Hospitals

Sterile filter P-SRF

Features:	Benefits:
High-quality stainless steel construction	High mechanical and thermal stability, good durability range against chemicals and numerous aggressive gases
Absolute retention rate of 99.99998% related to 0,2 µm	Validated retention rate, integrity testable with DOP test according to HIMA
Manufactured in accordance with cGMP and DIN EN ISO 9001	Constant product quality, high operational- and process safety
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 microorganisms
100 sterilization cycles guaranteed	Highly economical and low filtration costs
100% integrity tested by factory	Guaranteed quality
Available in 13 sizes	Optimum filter size for the individual application
Stainless steel core and endcaps	Temperature range from -20°C to 200°C

Bacterial retention:
LRV > 7/cm ² for T1 Coliphagen

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 sterile filter elements are guaranteed for 100 sterilization cycles – without loss of integrity

Maximum differential pressure:	
Operation temperature	Differential pressure
35°C	5 bar

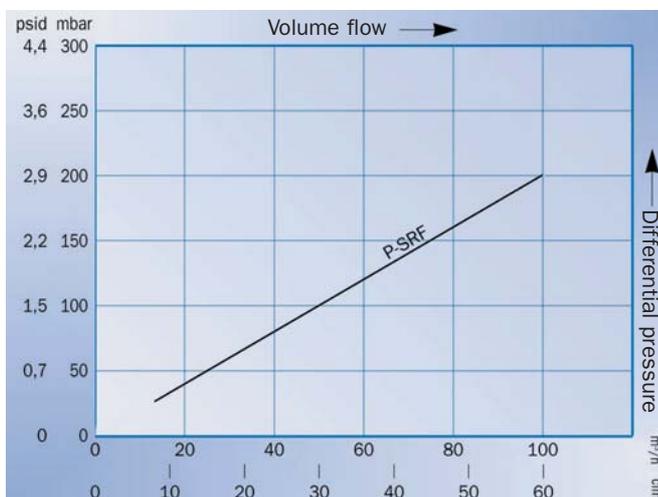
Temperatur range:
-20°C to 200°C*

* > 150°C only for dry compressed air

Materials:		Filtration surface:
Filter medium:	Borosilicate	494 cm ² for 10" element (10/30) For other sizes see correction factor (CF)
Outer core:	SS 1.4404 (316L)	
Inner core:	SS 1.4404 (316L)	Absolute retention rate: 99.99998% related to 0,2 µm
Supporting fabric:	Polyester	
Endcaps:	SS 1.4404 (316L)	
Bonding material:	Silicone	
O-Rings:	Silicone (standard)*	

* Buna N, EPM, Viton or other material on request

Flow rate of a 10" P-SRF element – air (1 bar, 20°C)



Dimensions:					
Element size	A mm	B mm	Ø C*	Ø D*	CF**
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	128	14	1"	52	0,25
05/25	128	14	1"	62	0,32
07/25	180	14	1"	62	0,47
05/30	128	16	2"	86	0,46
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	3,20
30/50	762	16	3"	140	5,65

* Plug- type connection with double-o-ring

** Correction factor filtration surface