Van Borselen
FILTERS

Process Filter P-SRF

Sterile Depth Filter For Process Air & Gases

P-SRF Sterile Filter

Van Borselen P-SRF

The P-SRF is a wound depth filter with inner and outer guard end caps made of stainless steel. Consisting of a three-dimensional borosilicate depth media, the P-SRF achieves a void volume of 95 %, ensuring a high containment capacity at high flow rates and low differential pressure. A retention rate of > 99.99998 % related to 0.1 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 and EC/1935/2004.

Features and advantages

- Non-fiber releasing filter element
- Manufactured with use of acrylic binder and without chemical additives
- Corresponds to cGMP requirements (current Good Manufacture Practice) and is manufactured according to DIN EN ISO 9001.
- P-SRF has passed the toxicological test according to USP XX Class VU for plastics.

Applications

- Aseptic packing
- Biotechnology
- Breweries
- Chemical Industry
- Dairies
- Fermentation processes
- Food and beverages
- Pharmaceutical Industry
- Water treatment systems

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 99.99998% related to 0.1 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
200 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 up to 200 °C

Materials			
Filter media	: Borosilicate	End caps	: SS 1.4301
Outer core	: SS 1.4301	Bonding material	: Silicone
Inner core	: SS 1.4301	Seals	: EPM (Std.), FEPM (Fluoraz) on request
Inner layer	: Polyester		

Van Borselen Filters Argonstraat 66,
Zoetermeer, 2718 SN

P-SRF Sterile Filter

Bacterial Retention:

LRV > 7/cm2 for viruses and phages

Filtration Surface:

494 cm² per 10“ Element (10/30) (250 mm)

Temperature Range:

-20 °C to 200 °C

Absolute Retention Rate:

99.99998 % related to 0.1 µm

Sterilization:

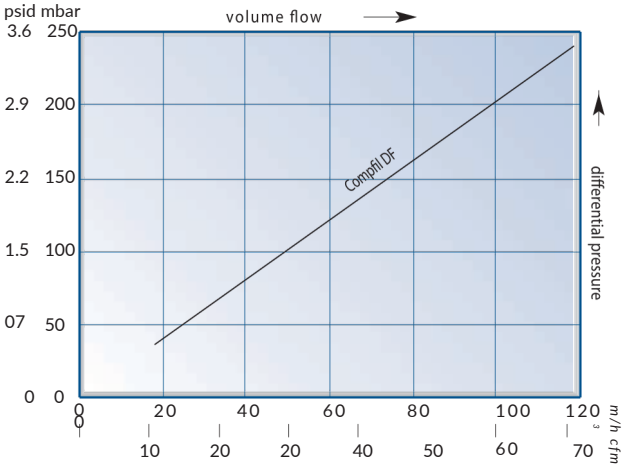
In-line sterilization with slow speed saturated steam: max. 121°C for 30 minutes max. 131°C for 20 minutes max. 141°C for 10 minutes

Autoclave: 125°C for 30 minutes

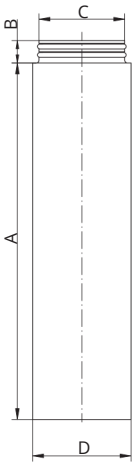
P-SRF-N filter elements are guaranted for 200 sterilization cycles withou loss of integrity

Max. Differential Pressure:

5 bar, independent of operating pressure of flow direction.



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



Technical Alternations reserved

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