



## Process filter P-SRF-N

Sterile Depth Filter For Process Air & Gases

# P-SRF-N Sterile Filter

## Ultrafilter P-SRF-N

The P-SRF-N 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-N 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 0.2 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) tilte 21 and EC/1935/2004.

## 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 manufac - tured according to DIN EN ISO 9001.
- P-SRF-N has passed the toxicological test ac - cording to current USP Class VI 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 0.2 µm	Validated retention rate, integrity testa - ble 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 individual application
Stainles steel core and end-caps	Temperature range from -20 °C up to 200 °C

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

# P-SRF-N Sterile Filter

## Bacterial Retention:

LRV > 7/cm<sup>2</sup> for viruses and phages

## Filtration Surface:

8600 cm<sup>2</sup> per 10" element (10/30) (254 mm)

## Temperature Range:

-20 °C to 200 °C

## Absolute Retention Rate:

99.99998 % related to 0.2 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 guaranteed for 200 sterilization cycles without loss of integrity.

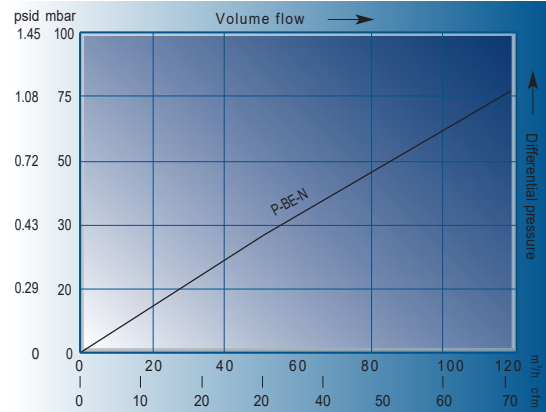
## Max. Differential Pressure:

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

Flow rate of a 10" P-BE-N element at 8 bar abs.



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