



**ULTRAFILTER**  
THE FILTRATION MANUFACTURER

*Kronsbein ultrafilter*®



## Process Filter P-SRF-VU

Sterile Depth Filter for Process Air & Venting

# P-SRF-VU Sterile Filter

## Ultrafilter P-SRF-VU

The P-SRF-VU 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-VU 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 as verified in accordance with DIN EN 1822 test procedure.

All components meet the FDA requirements for the indirect contact with food in accordance with the CFR requirements (code of federal regulations) tilte 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: 99.99998 % related to 0.2 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 individual application  |
| Stainles 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-VU 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
- Polydimethylsiloxane (PDMS) coating ensures fast drying, extremeley hydrophobic and casutic resistance.
- Suitable for sterilization using VPHP an ozone

## Applications

- Venting
- Biotechnology
- Breweries
- Chemical Industry
- Dairies
- Fermentation Processes
- Food and Beverage
- 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                              |
| Seals            | EPM (Std.), FEPM (Fluoraz) on request |

# P-SRF-VU Sterile Filter

## Bacterial Retention:

LRV > 9/cm<sup>2</sup> for viruses and phages

## Filtration Surface:

3000 cm<sup>2</sup> per 10" element (10/30) (254 mm)

## Temperature Range:

-20 °C to 200 °C

## Retention Rate:

99.99998% related to 0.2 µm

## Sterilisation:

In-line sterilisation 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-VU filter elements are guaranteed for 200 sterilization cycles without loss of integrity.

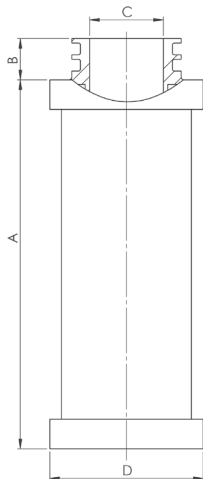
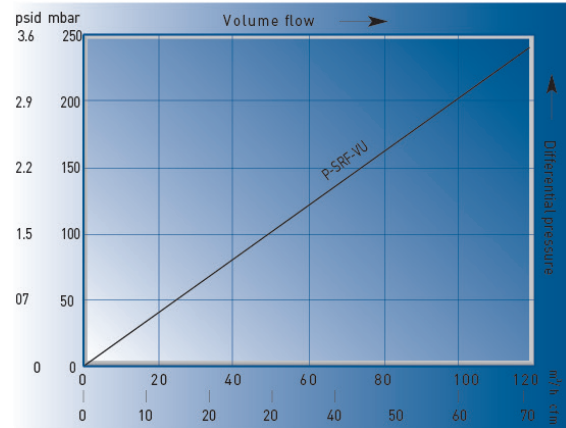
## Max. Differential Pressure:

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              |
| 30/50        | 762    | 16     | 2"       | 140      | 5,89              |

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



Technical Alternations reserved.



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