ultradept II® P-SRF

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

Product description:
The ultradept II® 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 0.01 µm. The ultradept II® binder-free, three-dimensional 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. ultradept II® 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 non-fiber releasing, it is asbestos-free and manufactured without the use of binders or other chemical additives.

Applications:
The ultradept II® sterile filters are, among others, designed and developed for the following applications:
- Chemical industry
- Pharmaceutical industry
- Biotechnology
- Breweries
- Dairies
- Aseptic packaging
- Food industry
- Hospitals
**ultradepth II® P-SRF**

### Features:
- High-quality stainless steel construction
- Absolute retention rate of 99.99998% related to 0.01 µm
- Manufactured in accordance with cGMP and DIN EN ISO 9001
- Three-dimensional borosilicate depth filter media
- Biologically and chemically inert
- 100 sterilization cycles guaranteed
- Available in 13 sizes
- Stainless steel core and endcaps

### Benefits:
- High mechanical and thermal stability, good durability range against chemicals and numerous aggressive gases
- Validated retention rate, integrity testable with DOP test according to HIMA
- Constant product quality, high operational- and process safety
- High waste containment capacity, low differential pressure, high flow rate
- No breeding ground for separated micro-organisms
- Highly economical and low filtration costs
- Guaranteed quality
- Optimum filter size for the individual application
- Temperature range from –4°F to 400°F, sterilizable at a steam temperature of up to 290°F

### Technical data

#### Materials:
- Filter medium: Borosilicate
- Outer core: SS 304
- Inner core: SS 304
- Supporting fabric: Polyester
- Endcaps: Silicone
- Bonding material: Silicone, Buna N, EPDM or Viton

#### Filtration surface:
- 2.5 ft² for 10” element (10/30)
- For other sizes see correction factor (CF)

#### Bacterial retention:
- LRV > 7/cm² for T1 Coliphagen

#### Sterilization:
- In-line sterilization with slow speed saturated steam
  - max. 250°F for 30 minutes
  - max. 270°F for 20 minutes
  - max. 290°F for 10 minutes
- Autoclave
  - 260°F for 30 minutes
ultradepth II® filter elements are guaranteed for 100 sterilization cycles – without loss of integrity

#### Maximum differential pressure:
- 75 psid, independent of the system pressure or the flow direction

#### Temperature range:
- –4°F to 400°F *
- * > 300°F only for dry compressed air

#### Absolute retention rate:
- 99.99998% related to 0.01 µm

### Flow rate of a 10” P-SRF element – air

<table>
<thead>
<tr>
<th>Element size</th>
<th>A inch</th>
<th>B inch</th>
<th>Ø C nominal width</th>
<th>Ø D inch</th>
<th>CF</th>
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