

# ultradepth II<sup>®</sup> P-SRF

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

## Product description:

The ultradepth II<sup>®</sup> 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.

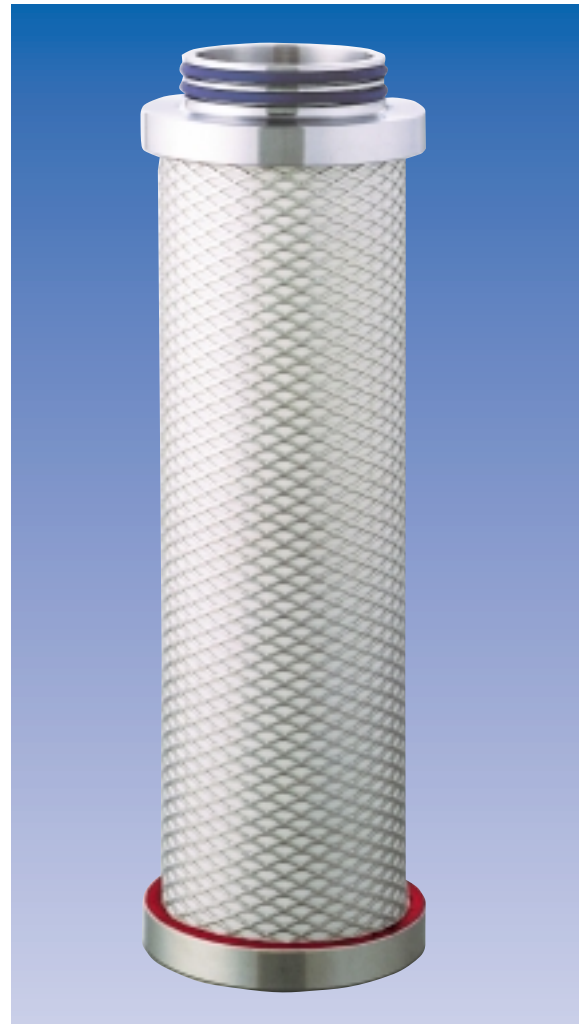
The ultradepth II<sup>®</sup> binder-free, three-dimensional borosilicate depth media has a large void volume of 95%. This ensures a high dirt containment capacity at a low differential pressure and a high flow rate. The filter media is inherently hydrophobic.

## Features:

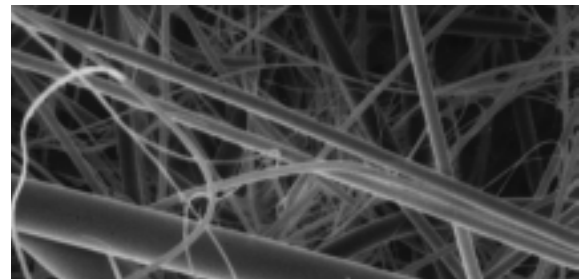
All components meet the FDA requirements for the contact with food in accordance with the CFR requirements (code of Federal Regulations), title 21. ultradepth II<sup>®</sup> filter elements have passed the toxicological tests according to USP XX Class VI for plastics.

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.

The ultradepth II<sup>®</sup> P-SRF – ensures a safe operation and is proven thousands of times in application



SEM of the ultradepth II<sup>®</sup> media



## Applications:

The ultradepth II<sup>®</sup> sterile filters are, among others, designed and developed for the following applications:

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

Technical alterations reserved (Date 10/00)

# ultradePTH II® 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 0.01 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 micro-organisms
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 -4°F to 400°F, sterilizable at a steam temperature of up to 290°F

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

Sterilization:
<ul style="list-style-type: none"> <li>In-line sterilization with slow speed saturated steam                             <ul style="list-style-type: none"> <li>max. 250°F for 30 minutes</li> <li>max. 270°F for 20 minutes</li> <li>max. 290°F for 10 minutes</li> </ul> </li> <li>Autoclave                             <ul style="list-style-type: none"> <li>260°F for 30 minutes</li> </ul> </li> </ul> 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

## Technical data

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

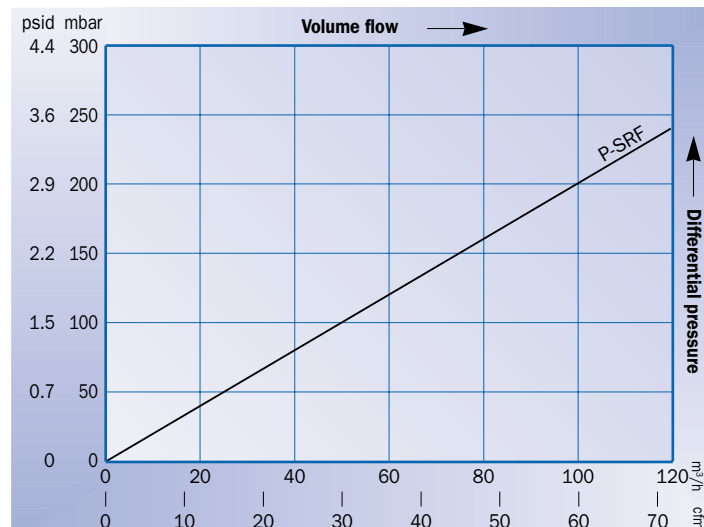
Filtration surface:
1/2 ft <sup>2</sup> for 10" element (10/30) For other sizes see correction factor (CF)

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



Dimensions:					
Element size	A inch	B inch	Ø C nominal width o.d.	Ø D inch	CF
03/10	3	0.5	1.2 (3/4")	1.65	0.12
04/10	4	0.5	1.2 (3/4")	1.65	0.17
04/20	4	0.55	1.5 (1")	2	0.19
05/20	5	0.55	1.5 (1")	2	0.25
05/25	5	0.55	1.5 (1")	2.44	0.32
07/25	7	0.55	1.5 (1")	2.44	0.47
05/30	5	0.6	2.5 (2")	3.4	0.46
07/30	7	0.6	2.5 (2")	3.4	0.68
10/30	10	0.6	2.5 (2")	3.4	1.00
15/30	15	0.6	2.5 (2")	3.4	1.55
20/30	20	0.6	2.5 (2")	3.4	2.10
30/30	30	0.6	2.5 (2")	3.4	3.28
30/50	30	0.6	3.6 (3")	5.5	5.89

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