

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-fibre 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

Sterilisation:

- In-line sterilisation with slow speed saturated steam
max. 121°C (250°F) for 30 minutes
max. 131°C (270°F) for 20 minutes
max. 141°C (290°F) for 10 minutes
- Autoclave
125°C (260°F) for 30 minutes

ultradept II® filter elements are guaranteed for 100 sterilisation cycles – without loss of integrity

Integrity testing

(wetting agent Isopropylalcohol [IPA]):

Pore size	Bubble point
0.04 µm	≥ 1.8 bar, 26 psi
0.1 µm	≥ 1.5 bar, 22 psi
0.2 µm	≥ 0.6 bar, 9 psi

Materials:

Filter medium:	Borosilicate
Outer core:	SS 1.4301 (304)
Inner core:	SS 1.4301 (304)
Supporting fabric:	Polyester
Endcaps:	SS 1.4301 (304)
Bonding material:	Silicone
O-Rings:	Silicone (standard), Buna N, EPDM or Viton

Absolute retention rates:

99.99998% related to 0.01 µm

The ultradept II® P-SRF – ensures a safe operation and is proved thousands of times in application



Bacterial retention:

LRV > 7/cm² for T1 Coliphagen

Temperature range:

–20°C (–4°F) to 200°C (400°F)*

* > 150°C (300°F) only for dry compressed air

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 sterilisation 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 –20°C (–4°F) to 200°C (400°F), sterilisable at a steam temperature of up to 141°C (290°F)

DIMENSIONS						
ELEMENT SIZE	A	B	Ø C o.d. nominal width	Ø D	CF	
03/10	76	12	31.0 (3/4")	42	0.12	
04/10	104	12	31.0 (3/4")	42	0.17	
04/20	104	14	38.5 (1")	52	0.19	
05/20	128	14	38.5 (1")	52	0.25	
05/25	128	14	38.5 (1")	62	0.32	
07/25	180	14	38.5 (1")	62	0.47	
05/30	128	16	63.0 (2")	86	0.46	
07/30	180	16	63.0 (2")	86	0.68	
10/30	254	16	63.0 (2")	86	1.00	
15/30	381	16	63.0 (2")	86	1.55	
20/30	508	16	63.0 (2")	86	2.10	
30/30	762	16	63.0 (2")	86	3.28	
30/50	762	16	91.0 (3")	140	5.89	