



ULTRAFILTER
THE FILTRATION MANUFACTURER

Kronsbein ultrafilter®



**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.

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 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-N has passed the toxicological test according to USP XX Class VU for plastics.

Applications

- Aseptic packing
- Biotechnology
- Breweries
- Chemical industry
- Dairies
- Fermentation processes
- food and beverages
- Pharmaceutical industry
- Water treatment systems

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



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Bacterial retention:

LRV > 7/cm² for viruses and phages

Filtration surface:

8600 cm² 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.

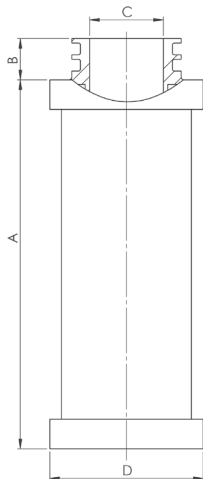
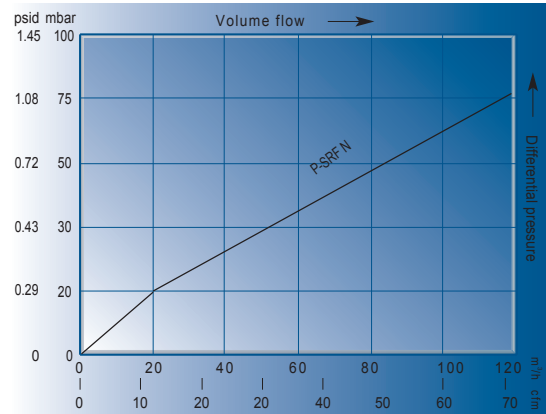
Max. differential pressure:

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
30/50	762	16	2"	140	5,89

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



Technical Alternations reserved.



ultrafilter gmbh

Otto-Hahn-Str. 1 • 40721 Hilden • Germany

Tel: +49 (0) 21 03.33 36 0 • Fax +49(0)21 03.33 36 36

e-Mail: info@ultra-filter.de • www.ultra-filter.de

**ultrafilter GmbH**

Otto-Hahn-Str. 1
40721 Hilden
Tel. +49 (0) 2103 33 36 0
Fax: +49 (0) 2103 33 36 36
eMail: info@ultra-filter.de
www.ultra-filter.de

**ultra.air AG**

Leutschenbachstrasse 45
8050 Zürich / Schweiz
Tel. +41 (0) 44 224 6060
Fax: +41 (0) 44 224 6061
eMail: info@ultraair.ch
www.ultraair.ch

**ultrafilter S.A. Mexico**

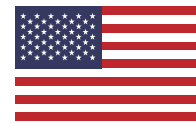
Tlalnepantla, Estado de México
Tel. +55 5362 8452
Fax: +55 5361-5444
eMail: contacto@solvik-int.com
www.solvik-int.com

**ultra.air GmbH**

Im Hülsenfeld 13
40721 Hilden
Tel. +49(0)2103 33 36 0
Fax: +49(0)2103 33 36 36
eMail: info@ultraair.de
www.ultraair.de

**ultra.air AG**

Leutschenbachstrasse 45
8050 Zürich / Schweiz
Tel. +41 (0) 44 224 6060
Fax: +41 (0) 44 224 6061
eMail: info@ultraair.ch
www.ultraair.ch

**ultrafilter USA Inc.**

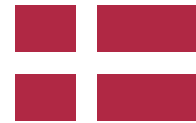
Denver CO, USA
Tel. +1 (303) 321 3809
Fax +1 (720) 979 9640
eMail: info@ultrafilter.us
eMail: mike.lewis@ultra-filter.us
www.ultra-filter.us

**ultrafilter Ltd.
China**

Room 201, Xueyuan Road 16#
100083 Haidian Distric
Beijing • P.Republic of China
Tel. +86 10 8333 0822
Fax: +86 10 8115 9861
eMail: csfinox@yahoo.com.cn

**ultrafilter Ltd.
South Africa**

Artic Driers
12 Rotterdam Road
Apex Industrial
Benoni • South Africa
Tel. +27 (0)11 420 0274
eMail: allen@articdriers.co.za

**ultrafilter
Skandinavia ApS**

Sunekær 1
5471 Sønderlø / Denmark
Tel. +45(0) 82 303 020
Email: info@ultra-filter.dk
www.ultra-filter.dk

**ultrafilter G. Britain Ltd.**

90 Church Road
Hereford
HR1 1RS

Tel. +44 (0) 1432 367 975
eMail: sales@ultrafilter.uk.com

**PT ultrafilter Indonesia**

Jakarta 10570 • Indonesien
Tel. +62-21 4280 0909
Fax: +62 21 4280 0505
eMail: info@ultrafilter.co.id
www.ultrafilter.co.id

**ultrafilter Oy Finland**

Mukulakuja 4 A 7
04300 Tuusula
Finland

www.ultra-filter.fi

Technische Änderungen vorbehalten



Kronsbein ultrafilter®

ultrafilter gmbh

Otto-Hahn-Str. 1 • 40721 Hilden • Germany
Tel: +49 (0) 21 03.33 36 13 • Fax +49(0)21 03.33 36 36
e-Mail: info@ultra-filter.de • www.ultra-filter.de