

# Ultradepth II® P-SRF

*Sterile depth filter for compressed or process air and technical gases*

## Product Description

Ultradepth II® P-SRF is a wound depth filter with inner and outer support cores and end caps made from stainless steel. The retention rate is 99.99998% related to 0.01 µm. Ultradepth II® binder-free, three dimensional borosilicate depth media has a large void volume of 95%. This ensures a high containment capacity at a low differential pressure and a high flow rate. The filter media is inherently hydrophobic.

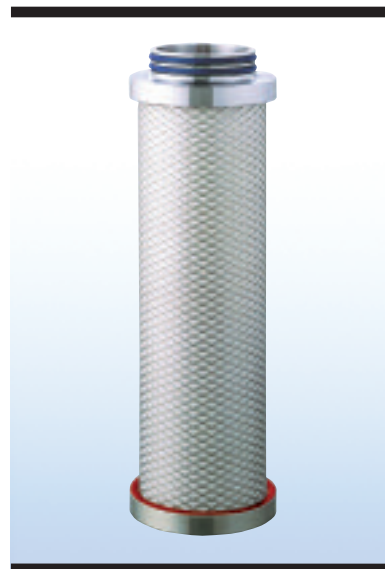
## Features

All components meet FDA requirements for contact with food in accordance with CFR requirements (Code of Federal Regulations), Title 21. Ultradepth 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 media is non-fiber-releasing and manufactured without the use of binders or other chemical additives.

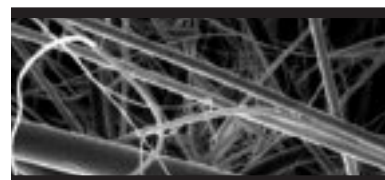
## Applications

Ultradepth II® sterile filters, among other Donaldson filters, are designed and developed for:

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



Ultradepth II® P-SRF ensures a safe operation and is proved thousands of times in applications



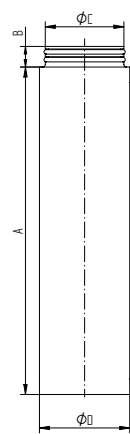
SEM of Ultradepth® media

Features	Benefits
High-quality stainless steel construction	High mechanical and thermal stability, good durability range against chemicals and numerous aggressive gases
Absolute retention 99.99998% related to 0.01 µm	Validated retention rate, integrity testable with DOP tests according to HIMA
Complies with cGMP and DIN EN	Constant product quality, high operational and process safety
Wound depth filter media	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
Standard sizes	Temperature range from -4°F to 390°F



**Filter Products Company**  
 Richmond, VA  
<http://fpcfilters.com>  
 (804) 231-4646

Dimensions					
Element size	A (inches)	B (inches)	ØC (inches)	ØD (inches)	Correction Factor
03/10	3	0.5	.75	1.65	0.12
04/10	4	0.5	.75	1.65	0.17
04/20	4	0.55	1	2	0.19
05/20	5	0.55	1	2	0.25
05/25	5	0.55	1	2.44	0.32
07/25	7	0.55	1	2.44	0.47
05/30	5	0.6	2	3.4	0.46
07/30	7	0.6	2	3.4	0.68
10/30	10	0.6	2	3.4	1.00
15/30	15	0.6	2	3.4	1.55
20/30	20	0.6	2	3.4	2.10
30/30	30	0.6	2	3.4	3.28
30/50	30	0.6	3	5.5	5.89



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

\*Viton is a registered trademark of E.I. du Pont de Nemours and Company

Absolute retention rate
99.99998% related to 0.01 µm

Filtration surface
.5 ft <sup>2</sup> for 10" element (10/30)

For other sizes see correction factor

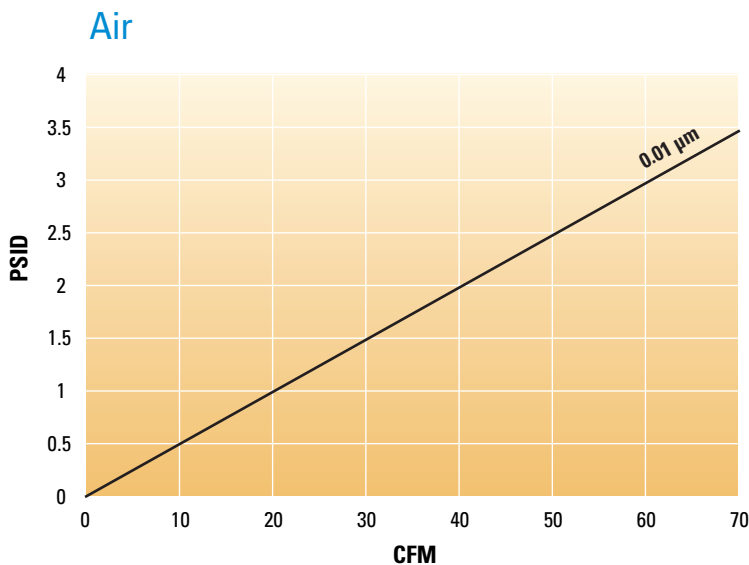
Maximum differential pressure
75 psid, independent of the system pressure or the flow direction

Temp. range (constant operation)
-4° F to 410° F*

\* > 300° F only for dry compressed air

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

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



Donaldson Company, Inc. Tel 800.543.3634 (USA)  
 Box 1299 Tel 800.343.3639 (within Mexico)  
 Minneapolis, MN processfilters@mail.donaldson.com  
 S5440-1299 U.S.A. www.donaldson.com

Information in this document is subject to change without notice.

© 2006 Donaldson Co., Inc. Printed in U.S.A. on recycled paper

Bulletin No. PRO-207