

Compfil™ DF

Compressed Air Depth Filter for Sterile Process Air and Gases



The Compfil™ DF filter is a wound depth filter or pleated depth filter, with stainless steel end caps, inner and outer guard. Consisting of a three dimensional borosilicate depth media, the DF achieves a void volume of 95%, ensuring a high containment capacity at high flow rates and low differential pressure. During operation, the filter achieves a retention rate of > 99.99998% related to 0.01 µm.

The Compfil™ DF is manufactured in accordance with cGMP requirements and to DIN EN ISO:9001. All components meet the FDA requirements for contact with food in accordance with the CFR requirements (Code of Federal Regulations) title 21.

Typical Applications

- Aseptic packing
- Biotechnology
- Breweries
- Chemical Industry
- Dairies
- Fermentation processes
- Food and beverage
- Pharmaceutical
- Water treatment systems

Features and Benefits

- 100 sterilisation cycles guaranteed
- Robust construction
- Non fibre releasing element
- Absolute retention rate of 99.99998% related to 0.01µm
- Three-dimensional borosilicate depth filter media
- Biologically and chemically inert
- Available in 13 sizes
- Stainless steel core and end-caps
- Meets industry standards

Ordering Information

Product Code: 1 - 2 - 3 - 4			
Compfil™ type	Element size	Media construction	Connection
DF	0310	P Pleated depth	U Plug Connections
	0410 -		
	0420	C Cylindrical / wound	For any non-standard connections please enquire with our Sales Team.
	0520		
	0525		
	0725		
	0730		
	1030		
	0530		
	2030		
	3030		
	3050		

Specifications

Materials of Manufacture

Filter media:	Borosilicate
Membrane support:	Polyester
Inner core:	Stainless steel
1.4301/304.	
Outer core:	Stainless steel
1.4301/304.	
End caps:	Stainless steel
1.4301/304.	
Bonding materials:	Silicone
O-rings:	Silicone (standard), Buna N, EPDM, Viton®

Filtration Surface

494cm² (5,317ft²) per 10" element

Maximum Differential Pressure

5bar (73psi), independent of operation pressure of flow direction

Dimensions

Element size	A mm (in)	B mm (in)	C Ø mm (in)	D Ø mm (in)	CF Flange
03/10	76 (3)	12 (0.47)	19 (3/4)	42 (1.65)	0,12
04/10	104 (4.09)	12 (0.47)	19 (3/4)	42 (1.65)	0,17
04/20	104 (4.09)	14 (0.55)	25.1 (1)	52 (2.05)	0,19
05/20	104 (4.09)	14 (0.55)	25.1 (1)	62 (2.44)	0,19
05/25	128 (5.03)	14 (0.55)	25.1 (1)	62 (2.44)	0,32
07/25	180 (7.09)	16 (0.63)	25.1 (1)	86 (3.39)	0,47
05/30	128 (5.03)	16 (0.63)	50.8 (2)	86 (3.39)	0,46
07/30	180 (7.09)	16 (0.63)	50.8 (2)	86 (3.39)	0,68
10/30	254 (10)	16 (0.63)	50.8 (2)	86 (3.39)	1,00
15/30	381 (15)	16 (0.63)	50.8 (2)	86 (3.39)	1,55
20/30	508 (20)	16 (0.63)	50.8 (2)	86 (3.39)	2,10
30/30	762 (30)	16 (0.63)	50.8 (2)	86 (3.39)	3,28
30/50	762 (30)	16 (0.63)	50.8 (2)	140 (5.51)	5,89

Operating Temperature

-20 to 200 °C (-4 to 392°F)

Sterilisation

DF filter elements are guaranteed for 200 sterilisation cycles without loss of integrity.

In-line sterilisation with slow speed saturated steam:

max. 121°C (250°F) for 30 minutes

max. 131°C (268°F) for 20 minute

max. 141°C (286°F) for 10 minutes

Autoclave:

125°C (257°F) for 30 minutes

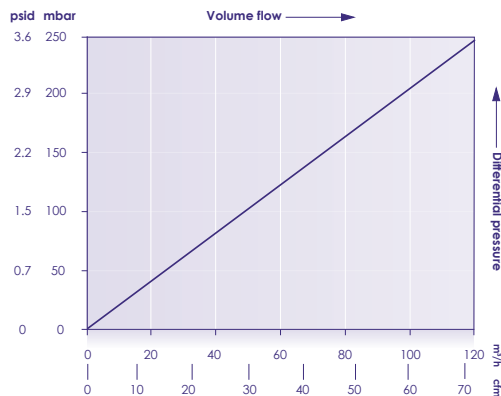
Bacterial Retention

LRV > 7/cm² (1.09in²) for T1 Coliform

Absolute Retention Rate

99.99998 % related to 0.01µm

Flow rates



Flow rate of a 10" SRF element at 1bar.

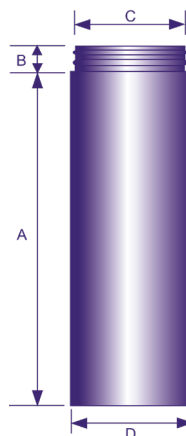


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