

Compfil™ DF

Sterile Depth Filter for Process Air and Gases

The Compfil™ DF filter is a wounded 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 operating, 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 the contact with food in accordance with the CFR requirements (Code of Federal Regulations) title 21.

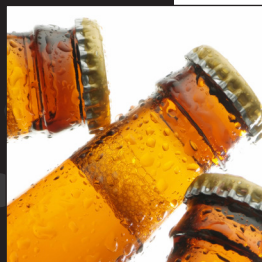
Typical Applications:

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



Features and Benefits

- **Robust construction**
Due to the outer guard and end caps' stainless steel construction, the filter exhibits high mechanical and thermal stability, proving an excellent choice for chemical and numerous aggressive gases.
- **Non fibre releasing element**
Manufactured without the use of binders or other chemical additives.
- **Absolute retention rate of 99.99998% related to 0.01µm**
Validated retention rate, integrity testable with DOP test according to HIMA.
- **Three-dimensional borosilicate depth filter media**
High waste containment capacity, low differential pressure and high flow rate.
- **Biologically and chemically inert**
No breeding ground for separated microorganism.
- **100 sterilization cycles guaranteed**
High economical efficiency and low filtration costs.
- **Available in 13 sizes**
Optimum filter size for individual application.
- **Stainless steel cord and end-caps**
Temperature range from -20 to 200°C (-4 to 392°F).
- **Meets industry standards**
Corresponds to cGMP requirements and is manufactured according to DIN EN ISO:9001.
DF has passed the toxicological test according to USP XX Class VU for plastics.
All components meet the FDA requirements for the contact with food in accordance with the CFR requirements (Code of Federal Regulations) title 21.



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 100 sterilization cycles without loss of integrity.

In-line sterilization with slow speed saturated steam:

- max. 121°C (250°F) for 30 minutes
- max. 131°C (268°F) for 20 minutes
- max. 141°C (286°F) for 10 minutes.

Autoclave:

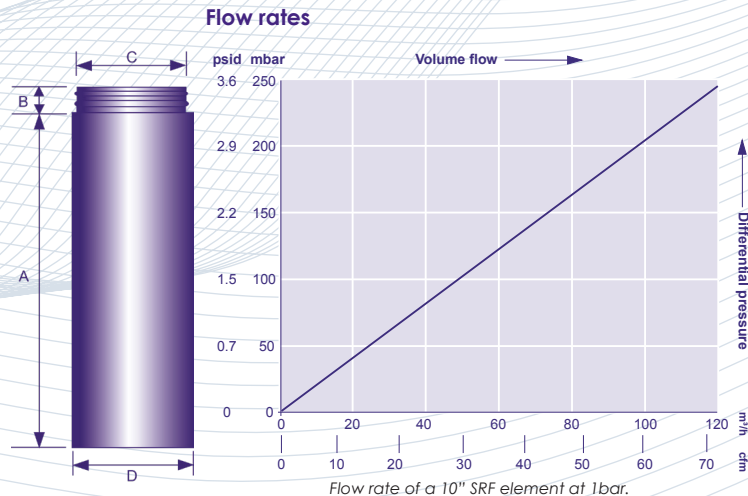
125°C (257°F) for 30 minutes.

Bacterial Retention

LRV > 7/cm² (1.09in²) for T1 Coliform.

Absolute Retention Rate

99.99998 % related to 0.01µm.



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