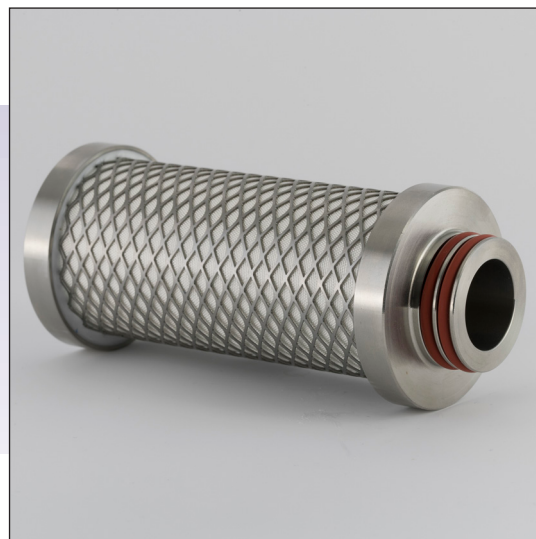


# Compfil™ DF

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.

## Ordering Information

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

## 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

## Specifications

### Materials of Manufacture

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

### Filtration Surface

494cm<sup>2</sup> (5,317ft<sup>2</sup>) per 10" element

### Maximum Differential Pressure

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

### Dimensions

| Element size | A<br>mm (in) | B<br>mm (in) | C<br>Ø mm (in) | D<br>Ø mm (in) | CF<br>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

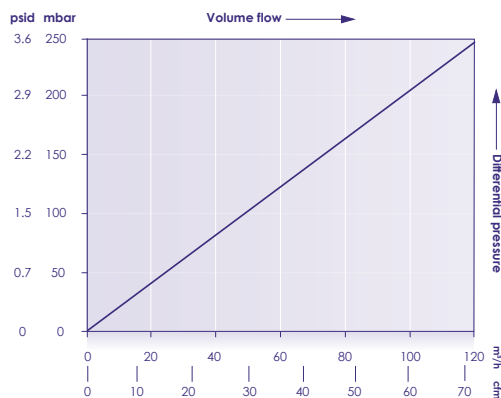
### Bacterial Retention

LRV > 7/cm<sup>2</sup> (1.09in<sup>2</sup>) for T1 Coliform

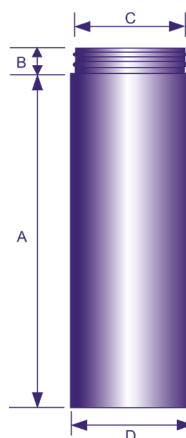
### Absolute Retention Rate

99.99998 % related to 0.01µm

### Flow rates



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



PFG749b/Rev2:June 2021