

Compfil™ SF

Sintered Steel Sterile Filter for Gases, Liquids and Steam



The Compfil™ SF filter is designed for removal of particles from gases, liquids and steam. The SF consists of a re-generable isostatically pressed filter cylinder made from sintered stainless steel. The retention rate ranges from 1µm to 25µm.

Ordering Information

| Product Code: 1 - 2 - 3 - 4 | | | |
|-----------------------------|--------------|---|----------------|
| Compfil™ type | Element size | Connection | Micron rating |
| SF | 0310 | U Plug Connections <i>For any non-standard connections please enquire with our Sales Team.</i> | 01 05 25 |
| | 0410 | | |
| | 0420 | | |
| | 0520 | | |
| | 0525 | | |
| | 0725 | | |
| | 0730 | | |
| | 1030 | | |
| | 1530 | | |
| | 2030 | | |
| | 3030 | | |
| | 3050 | | |

Typical Applications

- Aseptic packing
- Electronics
- Pharmaceutical
- Food and beverages
- Fermentation
- Plastics
- Breweries
- Dairy
- Chemicals

Features and Benefits

- **Filter media and end caps made of stainless steel**
Good durability against most liquids, gases and aggressive steams. Temperature range from -20°C (-4°F) up to 210°C (410°F).
- **Retention rate of 1µm, 5µm and 25µm (98% efficiency for steam and 100% efficiency for gases)**
Exactly defined particle retention rate at given pore size.
- **Sintered stainless steel filter medium with a porosity level of more than 50%**
High dirt holding capacity, good flow rate at low differential pressure.
- **Regenerable with ultrasonic bath**
Filtration costs reduced to a minimum, in particular for high dirt load.
- **Stainless steel sintering technology**
No use of additives or other chemical binders needed.
- **Available in 13 sizes.**

Specifications

Materials of Manufacture

| | |
|------------------|---|
| 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 as standard, FEP (Fluoraz) on request. |

Bacterial retention

LRV > 7/cm² viruses and phages

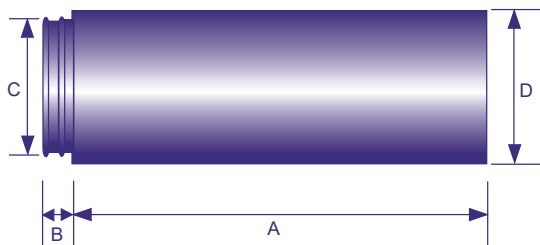
Temperature range

-20°C (-4°F) up to 200°C (392°F).

Filtration surface

494 cm² per 10" Element (10/30) (250 mm)

Dimensions



Sterilisation

In-line sterilisation with slow speed saturated steam:

max. 121°C (250°F) for 30 minutes

max. 131°C (277°F) for 20 minutes

max. 141°C (286°F) for 10 minutes

Autoclave: 125°C (257°F) for 30 minutes

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

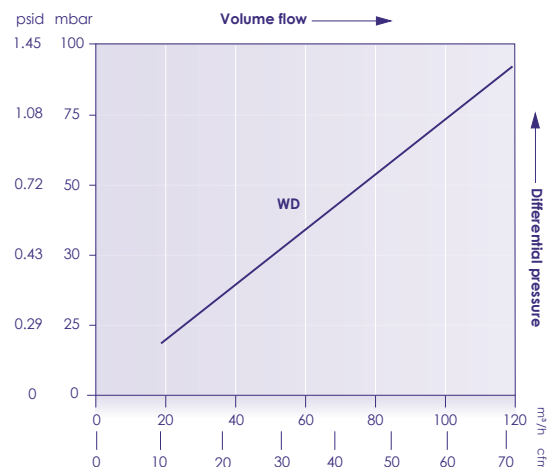
Absolute retention rate

99.99998% related to 0.2µm

Max. differential pressure

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

Flow rate of a 10" WD element at 8 bar absolute



| Element size (inch) | A mm (in) | B mm (in) | C Ø mm (in) | DØ mm (in) | Correction factor |
|---------------------|-------------|--------------|--------------|--------------|-------------------|
| 03/10 | 76mm (3") | 12mm (0.47") | 19mm (0.75") | 42mm (1.6") | 0,12 |
| 04/10 | 104mm (4") | 12mm (0.47") | 19mm (0.75") | 42mm (1.6") | 0,17 |
| 04/20 | 104mm (4") | 14mm (0.55") | 25mm (1") | 52mm (2.0") | 0,19 |
| 05/20 | 104mm (4") | 14mm (0.55") | 25mm (1") | 52mm (2.0") | 0,19 |
| 05/25 | 128mm (5") | 14mm (0.55") | 25mm (1") | 62mm (2.5") | 0,32 |
| 05/30 | 128mm (5") | 16mm (0.62") | 51mm (2") | 86mm (3.4") | 0,46 |
| 07/25 | 180mm (7") | 14mm (0.55") | 25mm (1") | 62mm (2.5") | 0,47 |
| 07/30 | 180mm (7") | 16mm (0.62") | 51mm (2") | 86mm (3.4") | 0,68 |
| 10/30 | 254mm (10") | 16mm (0.62") | 51mm (2") | 86mm (3.4") | 1,00 |
| 15/30 | 381mm (15") | 16mm (0.62") | 51mm (2") | 86mm (3.4") | 1,55 |
| 20/30 | 508mm (20") | 16mm (0.62") | 51mm (2") | 86mm (3.4") | 2,10 |
| 30/30 | 762mm (30") | 16mm (0.62") | 51mm (2") | 86mm (3.4") | 3,28 |
| 30/50 | 762mm (30") | 16mm (0.62") | 51mm (2") | 140mm (5.5") | 5,89 |

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