porvair filtration group

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	01
	0410		05
	0420		25
	0520		
	0525		
	0725		
	0730		
	1030		
	0530		
	2030		
	3030		
	3050		

For any non-standard connections please enquire with our Sales Team.

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 particluar 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

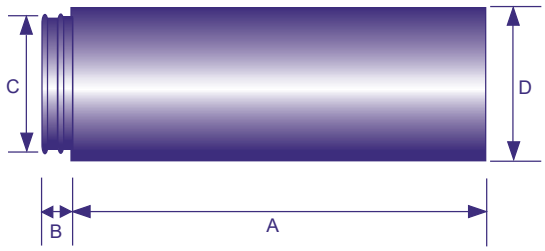
Temperature range

-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.

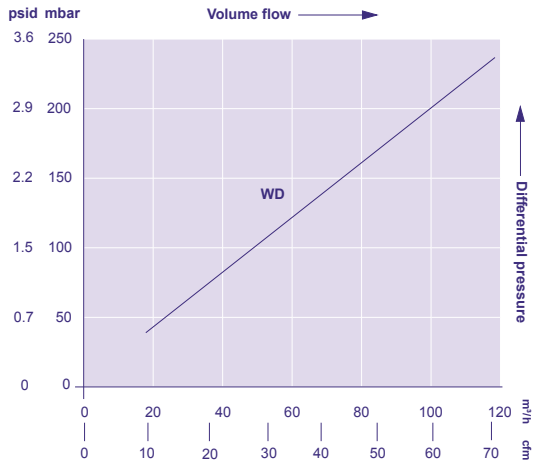
Absolute retention rate

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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