

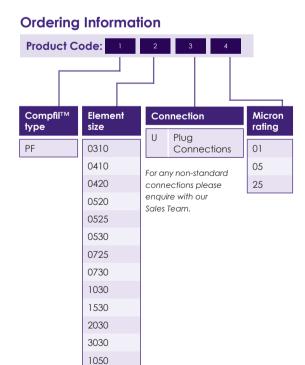
Compfil™ PF

Pleated Steel Particle Filter for Gases, Liquids and Steam



The CompfilTM PF filter consists of a regenerable, pleated filter tube made of stainless steel. Due to its robust construction, the CompfilTM SF is designed for maximum differential pressures up to 10 bar. It can be used in a temperature range from -20-210°C without any problems. From a temperature of 180°C, however, special O-rings are required.

The separation efficiency ranges from 1-25µm in order to reliably retain impurities. The improved steam quality not only extends the service life of the filters to be sterilized, but also increases the cost effectiveness of the entire process. All filter elements have been manufactured without the use of binders or other chemical additives.



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Applications

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

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 1, 5 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

High dirf holding capacity, good flow rate at low differential pressure.

- Regenerable with ultrasound and backwashing
 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.

Specifications

Materials of Manufacture

Filter media SS 1.4404/316L Support coats SS 1.4404/316L End caps SS 1.4404/316L O-Rings EPM as standard. Silicone, Buna N, Viton®,

Filtration surface

0,18 m² per 10" element (10/30) (250 mm)

Temperature range

-20°C (-4°F) to 210°C (410°F). > 180°C only with special O-rings

Conversion factor for steam temperature

Steam termperature °C 110,121,140,160 Steam temperature °F 212, 250, 285, 320 Conversion factor 0,5,1,2,3

Dimensions

Absolute separation rates

1-25µm

Max. differential pressure

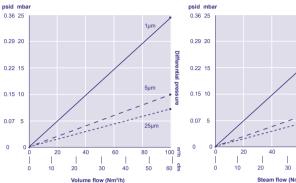
10bar (145psi)

Dimensions

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
10/50	254mm (10")	16mm (0.62")	76mm (3")	86mm (3.4")	1,45
30/50	762mm (30")	16mm (0.62")	76mm (3")	140mm (5.5")	5,89

FEP (Fluoraz) on request

Flow rate of a 10" PF Air, 20°C, 1bar



Flow rate of a 10"PF Steam, 121°C, 2bar

