

Borso Comp Cartridge

Sintered Steel Sterile Filter for Gases, Liquids and Steam



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

Advantages

- ▶ Good durability against most liquids, aggressive gases and steam.
- ▶ The porosity level is more than 50%, ensuring high particle and dirt load capacity as well as a good flow rate at a low differential pressure.
- ▶ Regeneration by ultrasonic bath.

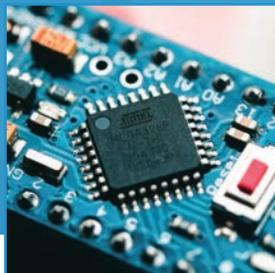
Application

- ▶ Aseptic packing
- ▶ Electronics
- ▶ Pharmaceutical
- ▶ Food and beverages
- ▶ Fermentation
- ▶ Plastics
- ▶ Dairy
- ▶ Breweries
- ▶ 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**
Optimum filter size for individual application.



Product Selection

Materials of Manufacture

Filter media	: Sintered SS 1.4404
End caps	: SS 1.4301
Bonding material	: Plastic Steel*
O-Rings	: EPM as standard. Silicone, Buna N, iton®, FEP (Fluoraz) on request

* > 150°C (302°F) welded endcaps

Filtration surface

494 cm² per 10" element (10/30) (250 mm).

Temperature range

-20°C (-4°F) to 210°C (410°F).

Conversion factor for steam temperature

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

Dimension

Element size (inch)	A mm (in)	B mm (in)	C Ø mm (in)	D Ø 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")	76mm (3")	140mm (5.5")	5,89

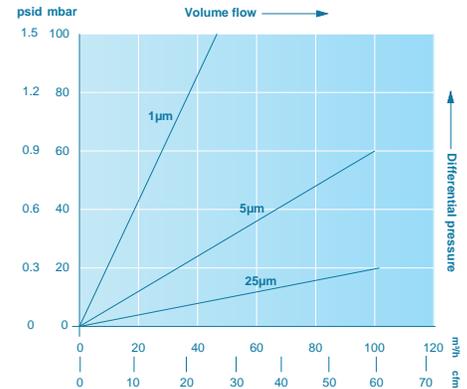
Absolute retention rate

1µm to 25µm

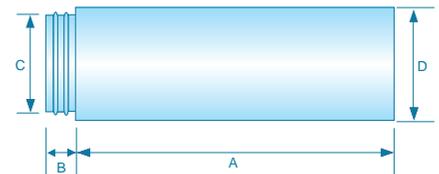
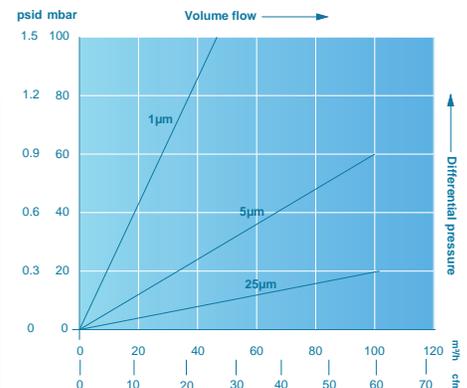
Max. differential pressure

5bar (73psi)

Flow rate of a 10" BCC element - air (1 bar, 20°C)



Flow rate of a 10" BCC element - saturated steam 121°C



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