Self-Cleaning Sample Gas Filter BF2-S

Using the cross flow (inertial) principle, this filter is an alternative to traditional filters. Filter of this type provide the lowest maintenance cost and longest life of any filter technology.

A grooved core is pressed into a filter element made of sintered stainless steel. The main sample gas stream enters the groove from the top and spins down to the bottom leaving the core via a channel in the center.

Due to the porous filter element, a slip stream is constantly diffused to the clean side of the filter. Because of the high gas velocity and cyclonic action, the majority of the particulates are carried to the main outlet and hence cannot plug-up the sintered filter element. The clean slip stream is directed to the analyzer or other component.

- **For gases and liquids**
- **Long filter life**
- **Low maintenance**
- **Compact design**
- **Integrated tube fittings**

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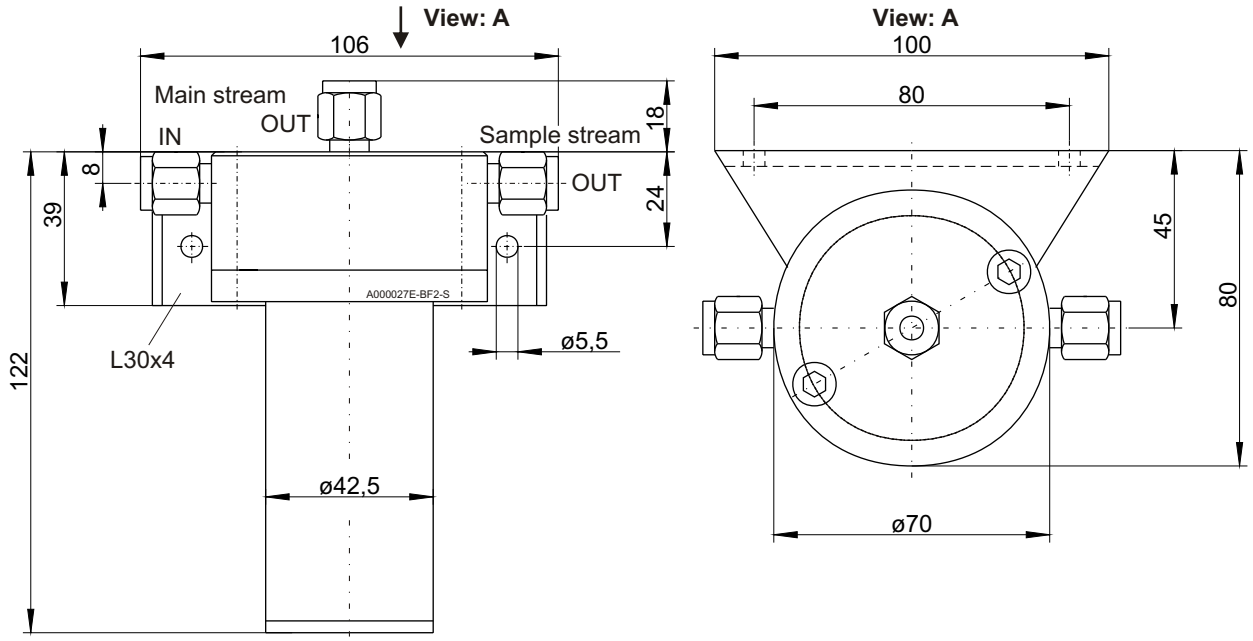
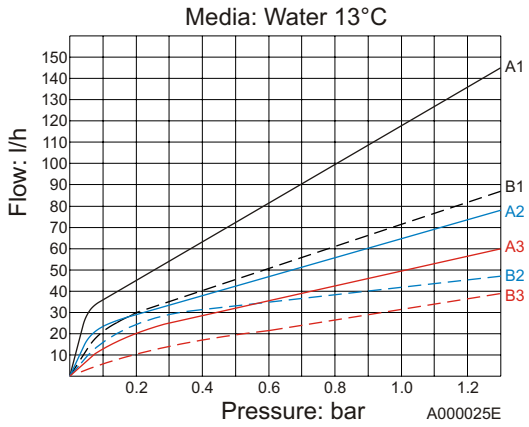
Dimensions

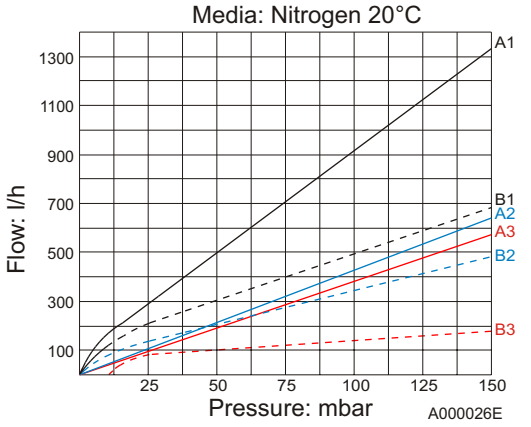


Flow Graphs

Table shows flow rates of main stream bypass and sample stream versus operating pressure

	Total flow	Main stream	Sample stream
Element 5 M - 29 - 100 pore size 5 micron	A1	A2	A3
Element 0.5 M - 29 - 100 pore size 0.5 micron	B1	B2	B3





Technical Data

Material	Housing	SS 1.4571
	Core	PTFE
	Filter element	SS 1.4404
	Seal	Viton
Connections	Swagelok tube	Ø 6 mm
Pressure	max. 25 bar	
Temperature	max. +120 °C	
Filter surface area	125 cm²	
Pore size	0.5 or 5 µm	
Dead volume	bypass outlet	14 ml
	sample outlet	19 ml
Weight approx.	1.5 kg	

Please indicate with order

Filter including one filter element

Part no.	***Type***
41 09 999	BF2-S-0,5 ; element 0.5 µm
41 08 999	BF2-S-5 ; element 5 µm

Filter elements

Part no.	***Type***	***Package***
41 09 001	0.5M - 29 - 100	1 pc.
41 08 001	5M - 29 - 100	1 pc.