

Product Data Sheet

Filter Silencers SP-FSC..-KNX

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Field of application

Type SP-FSC-KNX filter silencers are mainly designed for noise level and peak noise level reduction of expanding air while separating liquid and solid contaminants being present in the expanding air at the same time, i.e. residual oil contents and abrasion from upstream applications.

Type SP-FSC-KNX filter silencers are therefore used for reducing noise levels of expanding air and for separating and collecting contaminants out of expanded air flows.

Features

Type SP-FSC-KNX filter silencers consist of a housing with collecting bowl at the bottom and a SR-FSC-KNX filter element.

The robust housing, made from aluminium, offers the filter element connection port and both, a horizontal and vertical inlet connection. The connection not in use is closed by means of a plug screw which is supplied with the filter silencer. The housings provide large-scale openings for the expanded, high volume air flow. Nevertheless it provides a great robustness due to the solid rib design.

The collecting bowl is removable for cleaning purposes and collects the separated liquids. The integrated overflow offers the possibility to drain collected liquids when connected to an external container. Type SR-FSC-KNX filter elements are particularly designed for filter silencer applications. These filter elements consist of a special filter media with a high separation efficiency while offering a low flow resistance for a rapid expansion process at the same time. Additionally, compared to other filter elements, the media reduces noises effectively - this is special to filter silencer elements. An outside foam sock attracts separated liquids and drains these liquids into the collecting bowl.



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Specifications subject to change without notice

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Basic data

Model	Nominal volume flow*1	Max. operating pressure	Min./Max. operating temperature
SP-FSC15-KNX (incl. SR-FSC15-20-KNX)	90 m ³ /h	16 bar	+2°C - +60°C
SP-FSC20-KNX (incl. SR-FSC15-20-KNX)	105 m ³ /h		
SP-FSC25-KNX (incl. SR-FSC25-KNX)	210 m ³ /h		

*1 - refers to 1 bar(a) and 20°C at atmospheric pressure

Purity classes according to ISO 8573-1

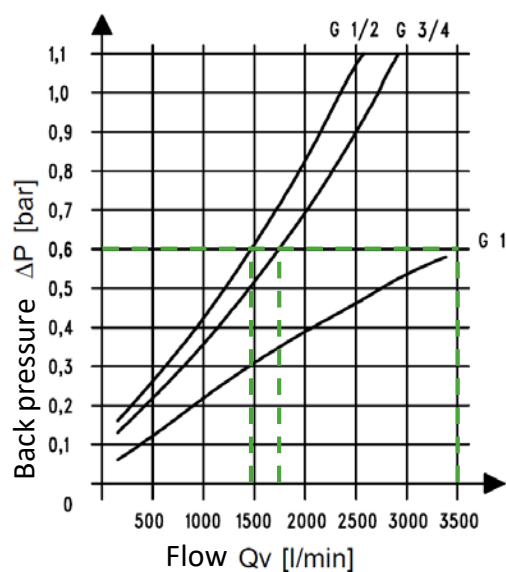
Contamination	
Solid particles	Not applicable
Water content	
Total oil content	

Maintenance rules

All models	Replacement of filter element once a year, the latest on a back pressure peak of 1 bar
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Product specific data

Specification	
Back pressure nominal (max.)	0.6 bar
Separation efficiency	99.99%
Residual oil content	≤ 0.01 mg/m ³
Noise reduction	max. -40 dB(A)



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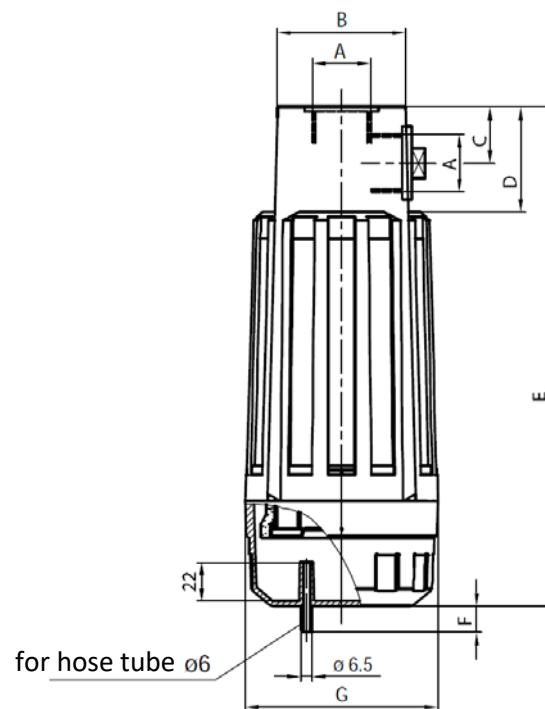
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Materials

Component	
Housing	Aluminium
Collecting bowl	POM (Polyoxymethylene)
Plug screw	PP (Polypropylene)
Filter element	Steel, PU (Polyurethan), PVC (Polyvinylchlorid)

Dimensions

Model	Connection [A]	Height [E]	Ø [G]	Drain port [F]	[B],[C],[D]	Weight
SP-FSC15-KNX	G 1/2	215 mm	90 mm	15 mm	62,26,48 mm	0.7 kg
SP-FSC20-KNX	G 3/4	215 mm	90 mm	15 mm	62,26,48 mm	0.7 kg
SP-FSC25-KNX	G 1	300 mm	90 mm	15 mm	73,32,60 mm	1.3 kg



Classification according to Pressure Equipment Directive 2014/68/EU for group 2 fluids

Model	Volume	Category
All models	Filter silencers are not part of the Pressure Equipment Directive 2014/68/EU	

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Other directives

Model	
All models	---