

STAINLESS STEEL STERILE FILTER HOUSING – SPF

DESCRIPTION

SPF stainless steel sterile filter housings have been specifically developed for applications in process industry, where the risk for corrosion of compressed air ⁽¹⁾ system components is very high. To meet the required compressed air quality ⁽³⁾ appropriate filter element (Sterile filter cartridge) must be installed into filter housing.

APPLICATIONS ⁽²⁾

- Packing industry
- Biotechnology
- Breweries
- Chemical industry
- Diaries
- Fermentation processes
- Food & beverage industry
- Pharmaceutical industry
- Hospitals

⁽¹⁾ For a specific technical gas please contact us or your local dealer

⁽²⁾ SPF process filter housing can be used in variety of applications. For applications not listed please contact us or your local dealer.

⁽³⁾ For oil removal, coalescing filter element must be installed and flow direction inside-out must be provided. General arrangement is filter head on top and filter bowl on bottom.



TECHNICAL SPECIFICATION

Operating temperature ⁽⁴⁾	-20 - 150 °C	-4 - 302 °F
Short duration (15min) temp limit	Up to 200 °C	Up to 392 °F
Operating pressure	0 – 14 bar(g)	0 – 203 psi

⁽⁴⁾ Actual operating temperature depends on sealing material and type of filter element.

MATERIALS

Housing material	Stainless steel (quality 1.4404; on request 1.4301)
Sealing	EPDM (Optional FKM or SILICONE)
Housing finishes	Polished down to grade Ra0,8 (externally)
Lubricant	(Optional Shell Cassida Grease RLS 2)

SIZES

FILTER HOUSING	PIPE SIZE-D [inch]	FILTER ELEMENT	OPERATING PRESSURE	FLOW CAPACITY		DIMENSIONS [mm]				VOLUME [l]	WEIGHT [kg]
				[Nm ³ /h]	[scfm]	A	B	C	E		
SPF 005	1/4"	0310	14	75	44	225	120	76,1	1/8"	0,71	1,9
SPF 007	3/8"	0410	14	105	62	251	120	76,1	1/8"	0,8	2,0
SPF 010	1/2"	0420	14	150	88	258	121	76,1	1/8"	0,84	2,1
SPF 018	3/4"	0520	14	225	132	282	121	76,1	1/8"	0,93	2,3
SPF 030	1"	0525	14	315	185	299	136	88,9	1/8"	1,4	3,1
SPF 047	1 1/4"	0725	14	420	247	368	155	88,9	1/8"	1,74	3,4
SPF 070	1 1/2"	0730	14	600	353	395	180	114,3	1/4"	3,4	4,7
SPF 094	2"	1030	14	900	530	464	180	114,3	1/4"	4,1	5,3
SPF 150	2"	1530	14	1260	742	592	180	114,3	1/4"	5,3	6,0
SPF 175	2 1/2"	2030	14	1680	989	743	226	139,7	1/4"	10,2	11,4
SPF 200	3"	3030	14	2400	1.413	995	226	139,7	1/4"	14	12
SPF 240	3"	3050	14	3600	2.119	1029	256	168,3	1/4"	21	18

Flow capacity at 7 bar(g), 20°C

Standard is BSP pipe connection, other pipe connection on request.

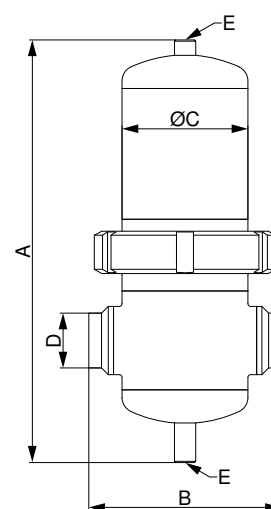
PRESSURE EQUIPMENT DIRECTIVE PED 2014/68/EU (Fluid group 2)

SPF 005 - SPF 094	Article 4.3
SPF 150 - SPF 200	Category 1, Module H
SPF 240	Category 2, Module H

PRESSURE EQUIPMENT DIRECTIVE PED 2014/68/EU (Fluid group 1)⁽⁵⁾

SPF 005 - SPF 047	Article 4.3
SPF 070 - SPF 094	Category 1, Module H
SPF 150 - SPF 200	Category 2, Module H
SPF 240	Category 3, Module H

⁽⁵⁾ Fluid group must be specified in the order, if not standard fluid group 2 is selected.



CORRECTION FACTORS

To calculate the correct capacity of a given filter based on actual operating conditions, multiply the nominal flow capacity by the appropriate correction factor(s).

CORRECTED CAPACITY = NOMINAL FLOW CAPACITY x C_{OP}

OPERATING PRESSURE

[bar]	2	3	4	5	6	7	8	9	10
[psi]	29	44	58	72	87	100	115	130	145
C _{OP}	0,38	0,5	0,63	0,75	0,88	1	1,13	1,25	1,38

MAINTENANCE

Replace filter element at least every 12 months or follow the instructions for specific filter element. Once per year make a visual check of filter housing and make sure there is no visual damage.

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	Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2015 Reg. number: 200285
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