

# SF SERIES

## STAINLESS STEEL STERILE FILTERS

operating pressure	<b>16 (10) bar</b>
volume flow rate	<b>75 to 21120 Nm<sup>3</sup>/h</b>
connections	<b>DN10 to DN50 TC ISO DN100 to DN200 EN</b>
operating temp. range	<b>-20 °C to +150 °C</b>
material	<b>stainless steel 1.4301</b>

Housing material 1.4404 on request.  
Fluid group 1 on request.

### APPLICATIONS

- packing industry
- biotechnology
- breweries
- chemical industry
- dairies
- fermentation processes
- food and beverage industry
- pharmaceutical industry
- hospitals

### DESCRIPTION

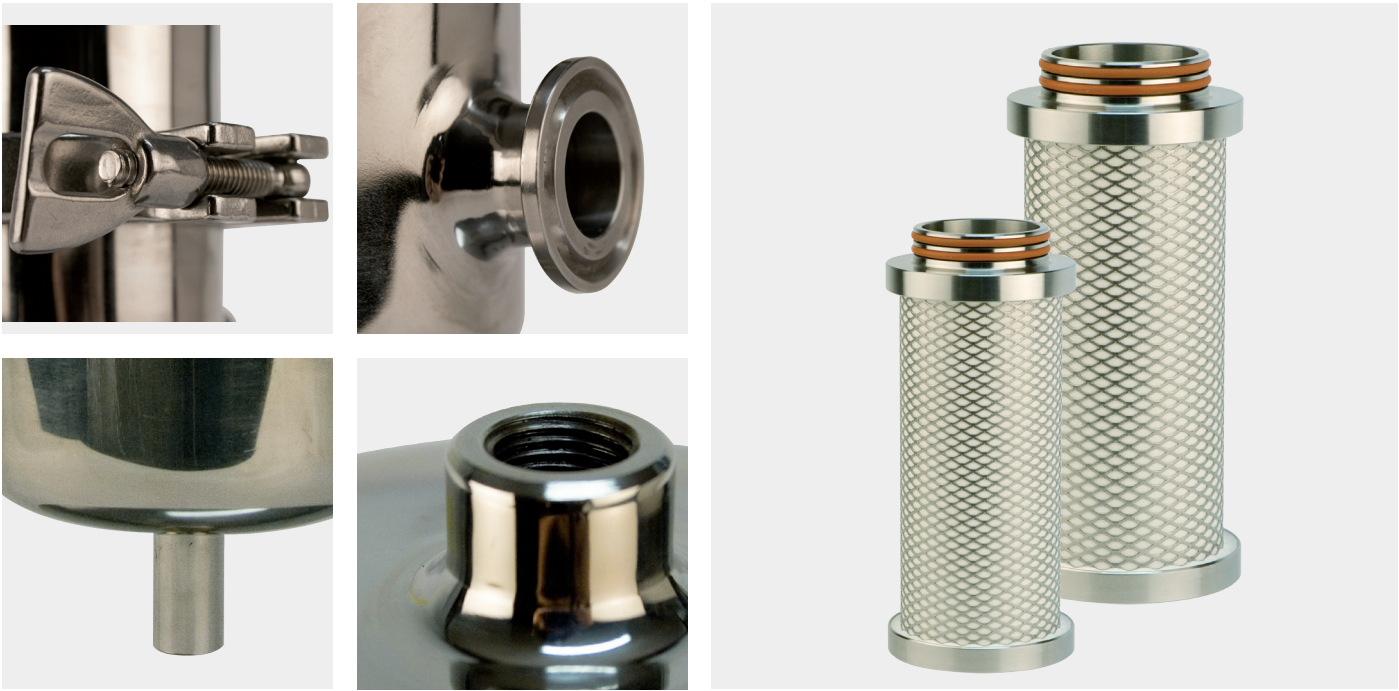
SF stainless steel sterile filter housings have been specifically developed for removing of impurities from compressed air<sup>(1)</sup> system. To meet the required compressed air quality appropriate filter element must be installed into filter housing. SF filter housing is also designed for sterilisation.

SF process filter housing can be used in variety of applications. For applications not listed above please contact producer or your local distributor.  
<sup>(1)</sup> For any other technical gas please contact producer or your local distributor.



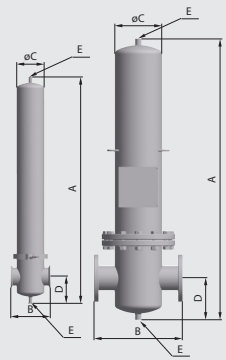
### ADVANTAGES

- ✓ High-efficient sterile filtration of compressed air, process air and technical gasses.
- ✓ High-efficient removal of sub-micron particles down to 0,01µm including microorganisms (bacteria).
- ✓ Housing material on request 1.4404
- ✓ Polished surface of filter housing down to grade Ra0,8.
- ✓ Filter element with exceptional strength assuring high-efficient filtration and allowing large number of sterilization cycles.
- ✓ 100% integrity tested (DOP test)
- ✓ All components meet the FDA requirements for contact with food in accordance with the Code of Federal Regulations (CFR), title 21.



**TECHNICAL DATA**

Filter housing size	Pipe size	Max. oper. pressure	Flow rate at 7 bar(g), 20 °C		Dimensions [mm]					Mass kg	FILTER ELEMENTS
	inch		bar/psi	Nm³/h	scfm	A	B	C	D		
SF 006	DN10 / ø17,2	16/232	75	44	218	125	76,1	69	1/8"	1,6	1 x 0310 VSF
SF 009	DN10 / ø17,2	16/232	105	62	246	125	76,1	69	1/8"	1,7	1 x 0410 VSF
SF012	DN15 / ø21,3	16/232	150	88	251	120	76,1	69	1/8"	1,7	1 x 0420 VSF
SF 018	DN15 / ø21,3	16/232	225	132	275	120	76,1	69	1/8"	1,8	1 x 0520 VSF
SF 032	DN25 / ø35,7	16/232	315	185	303	169	114,3	86	1/4"	3,1	1 x 0530 VSF
SF 048	DN32 / ø42,4	16/232	600	353	363	169	114,3	86	1/4"	3,4	1 x 0730 VSF
SF 072	DN40 / ø48,3	16/232	900	530	446	169	114,3	86	1/4"	3,6	1 x 1030 VSF
SF 108	DN50 / ø60,3	16/232	1.260	742	587	183	114,3	96	1/4"	4,9	1 x 1530 VSF
SF 144	DN65 / ø76,1	16/232	1.680	989	763	195	139,7	120	1/4"	8,4	1 x 2030 VSF
SF 192	DN80 / ø88,9	16/232	2.400	1.413	1015	195	139,7	120	1/4"	10,2	1 x 3030 VSF
SF 432	DN100	10/145	5.040	2.966	1012	410	219,1	183	1/2"	44	3 x 2030 VSF
SF 576	DN100	10/145	6.720	3.955	1266	410	219,1	183	1/2"	45	3 x 3030 VSF
SF 768	DN150	10/145	9.600	5.650	1305	480	273	225	1/2"	70	4 x 3030 VSF
SF 1152	DN150	10/145	13.440	7.910	1418	540	323,9	256	1"	80	6 x 3030 VSF
SF 1536	DN200	10/145	17.200	10.124	1568	660	406,4	306	1"	135	8 x 3030 VSF
SF 1920	DN200	10/145	21.120	12.431	1568	660	406,4	306	1"	135	10 x 3030 VSF



quality class - solids (ISO 8573-1)	1
quality class - oils (ISO 8573-1)	-
pressure drop - new element (dry) [mbar / psi]	80/1,160
pressure drop - new element (wet) [mbar / psi]	190/2,756
filter media	Borosilicate micro fibres
pleated version	-
wrapped version	✓
sintered version	-
min. operating temperature (°C / °F)	-20 / -4
max. operating temperature (°C / °F)	150 / 302

**CORRECTION FACTORS**

Operating pressure [bar]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Operating pressure [psi]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
Correction factor	0,38	0,50	0,63	0,75	0,88	1	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13