

# SPF SERIES

## STAINLESS STEEL STERILE FILTERS

operating pressure	<b>16 (12) bar</b>
volume flow rate	<b>75 to 3600 Nm<sup>3</sup>/h</b>
connections	<b>1/4" to 3"</b>
operating temp. range	<b>up to +150 °C</b>
material	<b>stainless steel 1.4301</b>

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

### APPLICATIONS

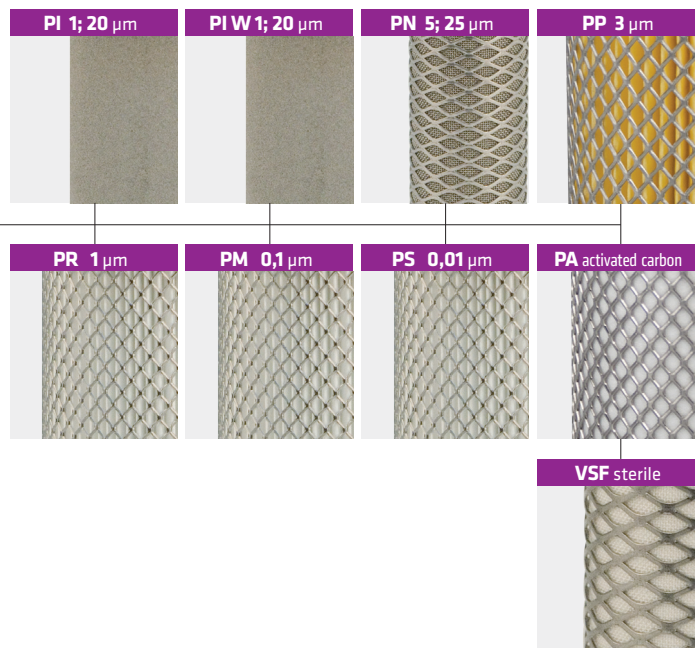
- packing industry
- biotechnology
- breweries
- chemical industry
- dairies
- fermentation processes
- food and beverage industry
- pharmaceutical industry
- hospitals

### DESCRIPTION

SPF stainless steel sterile filter housings are specially designed for applications in process industry, where the risk for corrosion of compressed air<sup>(1)</sup> system components is very high. To meet the required compressed air quality appropriate filter element (sterile filter cartridge) must be installed into filter housing. SPF process filter housing can be used in variety of applications.

For applications not listed please contact producer or your local distributor. 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.

<sup>(1)</sup> For any other technical gas please contact producer or your local distributor.





TECHNICAL DATA										FILTER ELEMENTS									
Filter housing size	Pipe size	Oper. press.	Flow rate at 7 bar(g), 20 °C		Dimensions [mm]				Mass kg	PI prefilter	PIW prefilter	PN prefilter	PP prefilter	PR prefilter	PM microfilter	PS microfilter	PA activated carbon	VSF sterile	
	inch		bar	Nm³/h	scfm	A	B	C		E	1; 20 µm	1; 20 µm	5; 25 µm	3 µm	1 µm	0,1 µm	0,01 µm	0,01 µm	
SPF 005	1/4"	16	75	44	225	116	76,1	1/8"	1,7	0310 PI	0310 PIW	0310 PN	0310 PP	0310 PR	0310 PM	0310 PS	0310 PA	0310 VSF	
SPF 007	3/8"	16	105	62	251	120	76,1	1/8"	1,9	0410 PI	0410 PIW	0410 PN	0410 PP	0410 PR	0410 PM	0410 PS	0410 PA	0410 VSF	
SPF 010	1/2"	16	150	88	253	125	76,1	1/8"	1,9	0420 PI	0420 PIW	0420 PN	0420 PP	0420 PR	0420 PM	0420 PS	0420 PA	0420 VSF	
SPF 018	3/4"	16	225	132	281	125	76,1	1/8"	2,0	0520 PI	0520 PIW	0520 PN	0520 PP	0520 PR	0520 PM	0520 PS	0520 PA	0520 VSF	
SPF 030	1"	16	315	185	290	136	88,9	1/8"	2,6	0525 PI	0525 PIW	0525 PN	0525 PP	0525 PR	0525 PM	0525 PS	0525 PA	0525 VSF	
SPF 047	1 1/4"	16	420	247	357	155	88,9	1/8"	3,0	0725 PI	0725 PIW	0725 PN	0725 PP	0725 PR	0725 PM	0725 PS	0725 PA	0725 VSF	
SPF 070	1 1/2"	16	600	353	408	179	114,3	1/4"	4,3	0730 PI	0730 PIW	0730 PN	0730 PP	0730 PR	0730 PM	0730-PS	0730 PA	0730 VSF	
SPF 094	2"	16	900	530	476	179	114,3	1/4"	4,8	1030 PI	1030 PIW	1030 PN	1030 PP	1030 PR	1030 PM	1030 PS	1030 PA	1030 VSF	
SPF 150	2"	16	1260	742	602	180	114,3	1/4"	5,3	1530 PI	1530 PIW	1530 PN	1530 PP	1530 PR	1530 PM	1530 PS	1530 PA	1530 VSF	
SPF 175	2 1/2"	16	1680	989	762	224	139,7	1/4"	9,0	2030 PI	2030 PIW	2030 PN	2030 PP	2030 PR	2030 PM	2030 PS	2030 PA	2030 VSF	
SPF 200	3"	12	2400	1413	1030	224	139,7	1/4"	10,8	3030 PI	3030 PIW	3030 PN	3030 PP	3030 PR	3030 PM	3030 PS	3030 PA	3030 VSF	
SPF 240	3"	12	3600	2119	1035	238	154	1/4"	16,2	3050 PI	3050 PIW	3050 PN	3050 PP	3050 PR	3050 PM	3050 PS	3050 PA	3050 VSF	
	quality class - solids (ISO 8573-1)	-	-	-	6	3	2	1	1 <sup>1)</sup>	1	-	-	-	-	-	-	-	-	
	quality class - oils (ISO 8573-1)	-	-	-	-	-	2	1	1	-	-	-	-	-	-	-	-	-	
	pressure drop - new element-dry [mbar]	≤2600; ≤60	≤2600; ≤60	10	10	20	50	80	60	80	-	-	-	-	-	-	-	-	-
	filter media	sintered stainless steel 1.4404	sintered stainless steel 1.4404	stainless steel mesh 1.4301	acrylic fibres, cellulose	borosilicate micro fibres			borosilicate micro fibres, activ. carbon	borosilicate micro fibres	-	-	-	-	-	-	-	-	-
	pleated version	-	-	-	✓	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	-
	wrapped version	-	-	✓	-	-	-	-	✓	✓	-	-	-	-	-	-	-	-	-
	sintered version	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
min. operating temperature (°C / °F)	0 / 32	0 / 32	0 / 32	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35	-20 / -4	
max. operating temperature (°C / °F)	150 / 302	150 / 302	150 / 302	65 / 149	120 / 248	120 / 248	120 / 248	120 / 248	120 / 248	120 / 248	120 / 248	120 / 248	120 / 248	120 / 248	120 / 248	120 / 248	45 / 113	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	

<sup>1)</sup> Valid if "S" filter cartridge is installed upstream.