

SPF SERIES

STAINLESS STEEL STERILE FILTERS

operating pressure	12 (16) bar
volume flow rate	75 to 3600 Nm³/h
connections	1/4" to 3"
operating temp. range	up to +150°C
material	stainless steel 1.4301

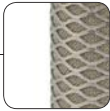
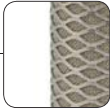
APPLICATIONS

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

Housing material 1.4404 on request.



FILTER ELEMENTS

SPFs		0,01 µm borosilicate micro fibres,
SPFN5		5 µm stainless steel mesh
SPFN25		25 µm stainless steel mesh
SPFi		1; 20 sintered INOX 1.4404
SPFp		0,01 µm borosilicate micro fibres

VALVE



DRAIN VALVE

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 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.

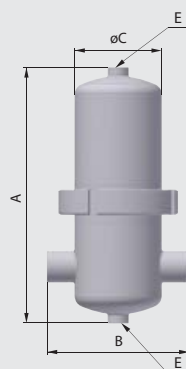
⁽¹⁾ For any other technical gas please contact producer or your local distributor.



TECHNICAL DATA - SPF FILTERS

SPF FILTER ELEMENTS

Filter housing size	Pipe size	Operating pressure	Flow rate at 7 bar(g), 20°C		Dimensions [mm]				Mass kg					
	inch		Nm³/h	scfm	A	B	C	E		SPFs sterile 0,01 µm	SPFN5 prefilter 5 µm	SPFN25 prefilter 25 µm	SPFi sterile 1; 20	SPFp microfilter 0,01 µm
SPF 005	1/4"	16	75	44	225	116	76,1	1/8"	1,7	0310-SPFs	0310-SPFN5	0310-SPFN25	0310-SPFi	0310-SPFp
SPF 007	3/8"	16	105	62	251	120	76,1	1/8"	1,9	0410-SPFs	0410-SPFN5	0410-SPFN25	0410-SPFi	0410-SPFp
SPF 010	1/2"	16	150	88	253	125	76,1	1/8"	1,9	0420-SPFs	0420-SPFN5	0420-SPFN25	0420-SPFi	0420-SPFp
SPF 018	3/4"	16	225	132	281	125	76,1	1/8"	2,0	0520-SPFs	0520-SPFN5	0520-SPFN25	0520-SPFi	0520-SPFp
SPF 030	1"	16	315	185	290	136	88,9	1/8"	2,6	0525-SPFs	0525-SPFN5	0525-SPFN25	0525-SPFi	0525-SPFp
SPF 047	1 1/4"	16	420	247	357	155	88,9	1/8"	3,0	0725-SPFs	0725-SPFN5	0725-SPFN25	0725-SPFi	0725-SPFp
SPF 070	1 1/2"	16	600	353	408	179	114,3	1/4"	4,3	0730-SPFs	0730-SPFN5	0730-SPFN25	0730-SPFi	0730-SPFp
SPF 094	2"	16	900	530	476	179	114,3	1/4"	4,8	1030-SPFs	1030-SPFN5	1030-SPFN25	1030-SPFi	1030-SPFp
SPF 150	2"	16	1260	742	602	180	114,3	1/4"	5,3	1530-SPFs	1530-SPFN5	1530-SPFN25	1530-SPFi	1530-SPFp
SPF 175	2 1/2"	16	1680	989	762	224	139,7	1/4"	9,0	2030-SPFs	2030-SPFN5	2030-SPFN25	2030-SPFi	2030-SPFp
SPF 200	3"	12	2400	1413	1030	224	139,7	1/4"	10,8	3030-SPFs	3030-SPFN5	3030-SPFN25	3030-SPFi	3030-SPFp
SPF 240	3"	12	3600	2119	1035	238	154	1/4"	16,2	3050-SPFs	3050-SPFN5	3050-SPFN25	3050-SPFi	3050-SPFp



quality class - solids (ISO 8573-1)	1	-	-	-	1
quality class - oils (ISO 8573-1)	-	-	-	-	1
pressure drop - new element-dry [mbar / psi]	80 / 1,16	10 / 0,15	10 / 0,15	60 / 0,87	80 / 1,16
filter media	borosilicate micro fibres	stainless steel mesh	stainless steel mesh	sintered INOX 1.4404	borosilicate micro fibres
pleated version	-	-	-	-	✓
wrapped version	✓	✓	✓	-	-
sintered version	-	-	-	✓	-
min. operating temperature (°C / °F)	-20 / -4	0 / 32	0 / 32	0 / 32	1,5 / 35
max. operating temperature (°C / °F)	150 / 302	150 / 302	150 / 302	150 / 302	120 / 248

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