

# WFIF SERIES

## WELDED STAINLESS STEEL FILTERS - FLANGED

operating pressure	<b>16 (12, 10) bar</b>
volume flow rate	<b>150 to 21120 Nm<sup>3</sup>/h</b>
connections	<b>DN15 to DN200</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.

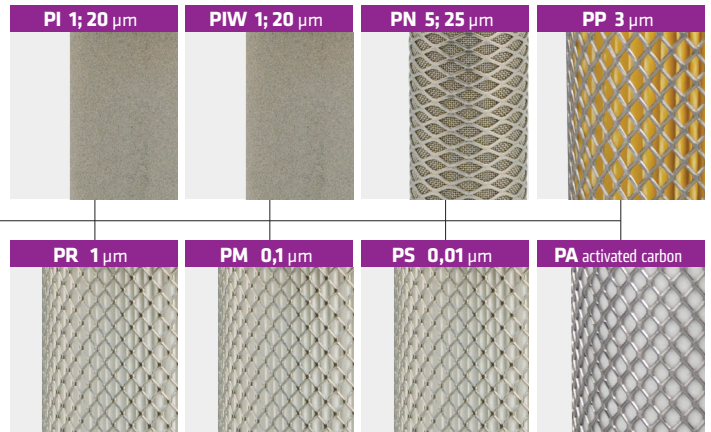
### APPLICATIONS

- biotechnology
- breweries
- chemical industry
- petrochemical industry
- dairies
- fermentation processes
- pharmaceutical industry
- hospitals

### DESCRIPTION

WFIF welded stainless steel filter housings with flange connections have been developed for filtration of compressed air as well as many other gasses where the risk for corrosion is very high or where stainless steel housing is required.

To meet the required gas quality appropriate filter element must be installed into filter housing.





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 1; 20 µm	PIW prefilter 1; 20 µm	PN prefilter 5; 25 µm	PP prefilter 3 µm	PR prefilter 1 µm	PM microfilter 0.1 µm	PS microfilter 0.01 µm	PA activated carbon
	inch	bar	Nm³/h	scfm	A	B	B*	C	E									
WFIF 010	DN15	16	150	88	230	195	-	76,1	1/2"	3,7	0420 PI	0420 PIW	0420 PN	0420 PP	0420 PR	0420 PM	0420 PS	0420 PA
WFIF 018	DN20	16	225	132	254	201	219	76,1	1/2"	4,5	0520 PI	0520 PIW	0520 PN	0520 PP	0520 PR	0520 PM	0520 PS	0520 PA
WFIF 030	DN25	16	315	185	275	216	244	88,9	1/2"	5,7	0525 PI	0525 PIW	0525 PN	0525 PP	0525 PR	0525 PM	0525-PS	0525 PA
WFIF 047	DN32	16	420	247	337	235	257	88,9	1/2"	7,3	0725 PI	0725 PIW	0725 PN	0725 PP	0725 PR	0725 PM	0725 PS	0725 PA
WFIF 070	DN40	16	600	353	386	260	290	114,3	1/2"	9,1	0730 PI	0730 PIW	0730 PN	0730 PP	0730 PR	0730 PM	0730 PS	0730 PA
WFIF 094	DN50	16	900	530	457	270	304	114,3	1/2"	10,4	1030 PI	1030 PIW	1030 PN	1030 PP	1030 PR	1030 PM	1030 PS	1030 PA
WFIF 150	DN50	16	1.260	742	583	270	304	114,3	1/2"	11,1	1530 PI	1530 PIW	1530 PN	1530 PP	1530 PR	1530 PM	1530 PS	1530-PA
WFIF 175	DN65	16	1.680	989	740	294	340	139,7	1/2"	14,2	2030 PI	2030 PIW	2030 PN	2030 PP	2030 PR	2030 PM	2030 PS	2030 PA
WFIF 200	DN80	12	2.400	1.413	1004	304	340	139,7	1/2"	19,3	3030 PI	3030 PIW	3030 PN	3030 PP	3030 PR	3030 PM	3030 PS	3030 PA
WFIF 240	DN80	12	3.600	2.119	1029	332	368	168,3	1/2"	22,9	3050 PI	3050 PIW	3050 PN	3050 PP	3050 PR	3050 PM	3050 PS	3050 PA
WFIF 450	DN100	10	5.040	2.966	986	410	-	219,1	1"	55	3x2030 PI	3x2030 PIW	3x2030 PN	3x2030 PP	3x2030 PR	3x2030 PM	3x2030 PS	3x2030 PA
WFIF 600	DN100	10	6.720	3.955	1240	410	-	219,1	1"	58	3x3030 PI	3x3030 PIW	3x3030 PN	3x3030 PP	3x3030 PR	3x3030 PM	3x3030 PS	3x3030 PA
WFIF 900	DN150	10	9.600	5.650	1311	480	-	273,0	1"	87	4x3030 PI	4x3030 PIW	4x3030 PN	4x3030 PP	4x3030 PR	4x3030 PM	4x3030 PS	4x3030 PA
WFIF 1200	DN150	10	13.440	7.910	1351	540	-	323,9	1"	108	6x3030 PI	6x3030 PIW	6x3030 PN	6x3030 PP	6x3030 PR	6x3030 PM	6x3030 PS	6x3030 PA
WFIF 1800	DN200	10	17.280	10.171	1496	660	-	406,4	1"	200	8x3030 PI	8x3030 PIW	8x3030 PN	8x3030 PP	8x3030 PR	8x3030 PM	8x3030 PS	8x3030 PA
WFIF 2000	DN200	10	21.120	12.431	1496	660	-	406,4	1"	200	10x3030 PI	10x3030 PIW	10x3030 PN	10x3030 PP	10x3030 PR	10x3030 PM	10x3030 PS	10x3030 PA
	quality class - solids (ISO 8573-1)	-	-	-	6	3	2	1	1 <sup>1)</sup>									
	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									
	filter media	sintered INOX 1.4404	sintered INOX 1.4404	stainless steel mesh 1.4301	acrylic fibres, cellulose		borosilicate micro fibres		borosilicate micro fibres, activ. carbon									
	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									
max. operating temperature (°C / °F)	150 / 302	150 / 302	150 / 302	65 / 149	120 / 248	120 / 248	120 / 248	45 / 113										

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.  
 B = flange connection EN 1092-1/11 PN16  
 B\* = flange connection ANSI B16.5 WN CI 150