

AF SERIES

ALUMINIUM COMPRESSED AIR FILTERS

operating pressure	16 bar
volume flow rate	60 to 2760 Nm³/h
connections	3/8" to 3"
operating temp. range	1,5 to 65 °C
standard colour	RAL 5012

APPLICATIONS

- general industrial applications
- automotive
- electronics
- food and beverage
- chemical
- petrochemical
- plastics
- paint

DESCRIPTION

AF filter housings are designed for high efficient removal of solid particles, water, oil aerosols, hydrocarbons, odour and vapours from compressed air⁽¹⁾ systems. To meet the required compressed air quality appropriate filter element (B, P, R, M, S, A, A², H², MS²) must be installed into filter housing.

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





TECHNICAL DATA										FILTER ELEMENTS									
Filter housing size	Pipe size	Max. oper. press.	Flow rate at 7 bar(g), 20 °C		Dimensions [mm]				Mass	B sintered 15 µm	P prefilter 3 µm	R prefilter 1 µm	M microfilter 0,1 µm	S microfilter 0,01 µm	A activated carbon	A ² adsorption (act. carbon)	H ² catalyst (hopcalite)	MS ² molecular sieve	
			Nm ³ /h	scfm	A	B	C	D											kg
AF 0056	3/8"	16/232	60	35	187	88	20	60	0,7	06050 B15	06050 P	06050 R	06050 M	06050 S	06050 A	-	-	-	
AF 0076	1/2"	16/232	78	46	187	88	20	60	0,7	07050 B15	07050 P	07050 R	07050 M	07050 S	07050 A	07050 A ²	07050 H ²	07050 MS ²	
AF 0106	3/4"	16/232	120	70	257	88	20	80	0,8	14050 B15	14050 P	14050 R	14050 M	14050 S	14050 A	14050 A ²	14050 H ²	14050 MS ²	
AF 0186	1"	16/232	198	116	263	125	32	100	1,8	12075 B15	12075 P	12075 R	12075 M	12075 S	12075 A	12075 A ²	12075 H ²	12075 MS ²	
AF 0306	1"	16/232	335	197	363	125	32	120	2,5	22075 B15	22075 P	22075 R	22075 M	22075 S	22075 A	22075 A ²	22075 H ²	22075 MS ²	
AF 0476	1 1/2"	16/232	510	300	461	125	32	140	2,5	32075 B15	32075 P	32075 R	32075 M	32075 S	32075 A	32075 A ²	32075 H ²	32075 MS ²	
AF 0706	1 1/2"	16/232	780	459	640	125	32	160	3,2	50075 B15	50075 P	50075 R	50075 M	50075 S	50075 A	50075 A ²	50075 H ²	50075 MS ²	
AF 0946	2"	16/232	1000	588	684	163	43	520	5,1	51090 B15	51090 P	51090 R	51090 M	51090 S	51090 A	-	-	-	
AF 1506	2"	16/232	1500	882	935	163	43	770	7,1	76090 B15	76090 P	76090 R	76090 M	76090 S	76090 A	-	-	-	
AF 1756	2 1/2"	16/232	1680	990	935	163	43	770	6,9	76090 B15	76090 P	76090 R	76090 M	76090 S	76090 A	-	-	-	
AF 2006	3	16/232	2160	1270	795	240	59	630	12,9	51140 B15	51140 P	51140 R	51140 M	51140 S	51140 A	-	-	-	
AF 2406	3	16/232	2760	1620	1000	240	59	780	14,0	75140 B15	75140 P	75140 R	75140 M	75140 S	75140 A	-	-	-	
										quality class - solids (ISO 8573-1)	7	6	3	2	1	1 ³⁾	1 ³⁾	1 ³⁾	1
										residual oil content [mg/m ³]	-	-	-	<0,1	<0,01	<0,005	<0,005	-	-
										quality class - oils (ISO 8573-1)	-	-	-	2	1	1	0/1	-	-
										pressure drop - new element [mbar / psi]	20 / 0,290	10 / 0,145	20 / 0,290	50 / 0,725	80 / 1,160	60 / 0,870	see spec.	see spec.	< 50 / 0,725
										change filter cartridge at pressure drop [mbar / psi]	¹⁾	350 / 5,07	350 / 5,07	350 / 5,07	350 / 5,07	6 months ²⁾	6 months ²⁾	6 months ²⁾	
										filter material	sintered brass	acrylic fibres, cellulose		borosilicate micro fibres		borosilicate micro fibres			
																activ. carbon	activ. carbon	hopcalite	molecular sieve
										pleated version	-	✓	✓	✓	✓	-	✓	✓	✓
										wrapped version	-	-	-	-	-	✓	-	-	-
										sintered version	✓	-	-	-	-	-	-	-	-
min. operating temperature (°C / °F)	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										
max. operating temperature (°C / °F)	65 / 149	65 / 149	65 / 149	65 / 149	65 / 149	65 / 149	45 / 113	45 / 113	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	

¹⁾ B filter element can be cleaned with ultrasonic bath or with back flushing. Intervals of cleaning depends of application. If necessary replace filter element with new one.
²⁾ Filter elements "A, A², H²", must be changed periodically to suit application, but at least every 6 months. Activated carbon filters must not operate in oil saturated conditions.
³⁾ Valid if "S" filter cartridge is installed upstream.
⁴⁾ For elements A², H² and MS² it is necessary to reduce the flow according to technical data sheet specification.