

AF series - 16 bar

AF - Aluminium compressed air filters



Compressed air filters AF Series are used for efficient removal of solid particles, water, oil vapours, taste and odours from compressed air in industrial applications.

The type and size of filters depends of compressed air flow, type and quantity of pollution.

Available optional equipment is described on picture below.

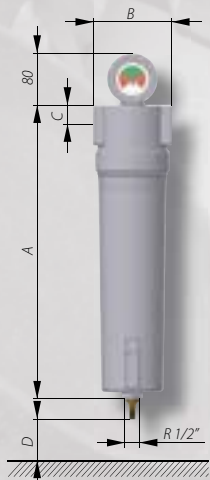
- max. operating pressure: 16 bar (232 psi)
- operating temperature range: 1,5 to 65 °C (35 to 149 °F)

Standard equipment includes filter housing and filter cartridge.

OPTIONAL EQUIPMENT



sight glass - option



Filter housing model	Pipe size	Flow rate Nm ³ /h	Dimensions [mm]				Mass kg	Flow rate SCFM	Dimensions [inch]				Mass lb
	inch		A	B	C	D			A	B	C	D	
AF 0056	3/8"	60	187	88	20	60	0,7	35	7 ³ / ₈	3 ¹ / ₂	1 ³ / ₁₆	2 ³ / ₈	1,54
AF 0076	1/2"	78	187	88	20	60	0,7	46	7 ³ / ₈	3 ¹ / ₂	1 ³ / ₁₆	2 ³ / ₈	1,54
AF 0106	3/4"	120	257	88	20	80	0,8	70	10 ¹ / ₁₆	3 ¹ / ₂	1 ³ / ₁₆	3 ¹ / ₈	1,76
AF 0186	1"	198	263	125	32	100	1,8	116	10 ⁵ / ₁₆	4 ¹⁵ / ₁₆	1 ³ / ₁₆	3 ⁷ / ₈	3,97
AF 0306	1"	335	363	125	32	120	2,5	197	14 ¹ / ₄	4 ¹⁵ / ₁₆	1 ³ / ₁₆	4 ¹¹ / ₁₆	5,51
AF 0476	1 1/2"	510	461	125	32	140	2,5	300	17 ³ / ₄	4 ¹⁵ / ₁₆	1 ³ / ₁₆	5 ¹ / ₂	5,51
AF 0706	1 1/2"	780	640	125	32	160	3,2	459	25 ⁵ / ₁₆	4 ¹⁵ / ₁₆	1 ³ / ₁₆	6 ¹ / ₄	7,05
AF 0946	2"	1000	684	163	43	520	5,1	588	27 ³ / ₈	6 ³ / ₈	1 ⁷ / ₈	20 ¹ / ₂	11,25
AF 1506	2"	1500	935	163	43	770	7,1	882	36 ³ / ₄	6 ³ / ₈	1 ⁷ / ₈	30 ⁵ / ₁₆	15,65
AF 1756	2 1/2"	1680	935	163	43	770	6,9	990	36 ³ / ₄	6 ³ / ₈	1 ⁷ / ₈	30 ⁵ / ₁₆	15,21
AF 2006	3	2160	795	240	59	630	12,9	1270	31 ¹ / ₄	9 ¹ / ₂	2 ³ / ₈	24 ³ / ₄	28,44
AF 2406	3	2760	1000	240	59	780	14,0	1620	39 ¹ / ₃	9 ¹ / ₂	2 ³ / ₈	30 ¹¹ / ₁₆	30,86

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	0,52	0,63	0,75	0,88	1,00	1,13	1,26	1,38	1,52	1,65	1,76	1,87	2,00	2,14



AF filter cartridges

Omega Air filter cartridge production includes 6 filtration stages (B, P, R, M, S and A), which are designed to remove particulates, water, oil vapours, taste and odours from compressed air.

The design of filter media ensures the effective and efficient removal most of contaminates in compressed air systems. Note that these filters will not remove carbon monoxide or carbon dioxide.

All materials are suitable for operation in the temperature range from 1,5 to 65 °C (35 to 149°F). They are corrosion-proof and suitable for most of applications.

The filter and cartridge size is determined by the compressed air flow. They are all designed for operation pressure up to 16 bar (232 psi).



Cartridge size	Flow rate		Max. oper. pressure [bar/psi]	Max. operating temp. [°C/°F]	Filter's housing	B	P	R	M	S	A	
	m³/h	SCFM				sintered 15 µm	P prefilter 3 µm	R prefilter 1 µm	M microfilter 0,1 µm	S microfilter 0,01 µm	A active carbon	
06050	60	35	16/232	65/149	AF 0056	06050 B15	06050 P	06050 R	06050 M	06050 S	06050 A	
07050	78	46	16/232	65/149	AF 0076	07050 B15	07050 P	07050 R	07050 M	07050 S	07050 A	
14050	120	70	16/232	65/149	AF 0106	14050 B15	14050 P	14050 R	14050 M	14050 S	14050 A	
12075	198	116	16/232	65/149	AF 0186	12075 B15	12075 P	12075 R	12075 M	12075 S	12075 A	
22075	335	197	16/232	65/149	AF 0306	22075 B15	22075 P	22075 R	22075 M	22075 S	22075 A	
32075	510	300	16/232	65/149	AF 0476	32075 B15	32075 P	32075 R	32075 M	32075 S	32075 A	
50075	780	459	16/232	65/149	AF 0706	50075 B15	50075 P	50075 R	50075 M	50075 S	50075 A	
51090	1000	588	16/232	65/149	AF 0946	51090 B15	51090 P	51090 R	51090 M	51090 S	51090 A	
76090	1500	882	16/232	65/149	AF 1506	76090 B15	76090 P	76090 R	76090 M	76090 S	76090 A	
76090	1680	990	16/232	65/149	AF 1756	76090 B15	76090 P	76090 R	76090 M	76090 S	76090 A	
51140	2160	1270	16/232	65/149	AF 2006	51140 B15	51140 P	51140 R	51140 M	51140 S	51140 A	
75140	2760	1620	16/232	65/149	AF 2406	75140 B15	75140 P	75140 R	75140 M	75140 S	75140 A	
						B	P	R	M	S	A	
						solid particle size purification: down to	15 microns	3 microns	1 micron	0,1 micron	0,01 micron	-
						quality class - solids (ISO 8573-1)	4	3	2	1	1	-
						residual oil content [mg/m³ / ppm]	-	-	-	0,1 / 0,08	0,01 / 0,01	0,005 / 0,005
						quality class - oils (ISO 8573-1)	-	-	-	2	1	1
						pressure drop - new element [mbar / psi]	30 / 0,43	40 / 0,58	<50 / 0,72	<80 / 1,16	120 / 1,74	<90 / 1,3
						change filter cartridge at pressure drop [mbar / psi]	600 / 8,7	600 / 8,7	600 / 8,7	600 / 8,7	600 / 8,7	*every 6 months
						filter material	sintered brass	acrilic fibres, cellulose		borosilicate micro fibres		active carbon
						pleated version	-	+	+	+	+	-
						wrapped version	-	+	+	+	+	+
						sintered version	+	-	-	-	-	-

* Filter elements "A" must be changed periodically to suit application but at least every 6 months. Activated carbon filters must not operate in oil saturated conditions.