

Control - Measure - Filter

Compressed air filters: Fine filter - microfilter - Activated carbon filter

Filters for clean and oil-free compressed air ISO 8573-1

AF compressed air filters are designed for protection of the downstream compressed air system and equipment against defects and other failures. They ensure high efficient removal of solid particles, water, oil aerosols, hydrocarbons, odour and vapours from compressed air systems up to 16 bar. For any other technical gas please contact us or your local distributor. Required compressed air quality according to standard ISO 8571-1 can be achieved with 9 different grades of filter elements (B, P, R, M, S, A, A², H² and MS²). Optional internal and external condensate drains should be used for efficient condensate draining from filter housing.

Characteristics

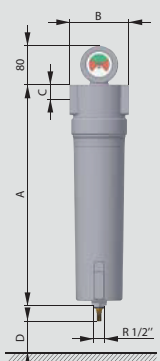
- working pressure 16 bar
- flow rate 60 to 2760 Nm³/h
- connections 3/8" to 3"
- operating temp. reach 1.5 to 65 °C
- standard color RAL 5012

Applications

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



TECHNICAL DATA - AF FILTERS										INCLUDING FILTER ELEMENT							
Filter housing size	Pipe size	Max. oper. pressure	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 active carbon	A ² adsorption (act. carbon)	H ² catalyst (hopcalite)
	inch	[bar/psi]	Nm ³ /h	scfm	A	B	C	D	kg								
Filter housing size	3/8"	16/232	60	35	187	88	20	60	0,7	On request	On request	On request	AF0056M	AF0056S	AF0056A	On request	On request
	1/2"	16/232	78	46	187	88	20	60	0,7	On request	On request	On request	AF0076M	AF0076S	AF0076A	On request	On request
	3/4"	16/232	120	70	257	88	20	80	0,8	On request	On request	On request	AF0106M	AF0106S	AF0106A	On request	On request
	1"	16/232	198	116	263	125	32	100	1,8	On request	On request	On request	AF0186M	AF0186S	AF0186A	On request	On request
	1"	16/232	335	197	363	125	32	120	2,5	On request	On request	On request	AF0306M	AF0306S	AF0306A	On request	On request
	1 1/2"	16/232	510	300	461	125	32	140	2,5	On request	On request	On request	AF0476M	AF0476S	AF0476A	On request	On request
	1 1/2"	16/232	780	459	640	125	32	160	3,2	On request	On request	On request	AF0706M	AF0706S	AF0706A	On request	On request
	2"	16/232	1000	588	684	163	43	520	5,1	On request	On request	On request	AF0946M	AF0946S	AF0946A	On request	On request
	2"	16/232	1500	882	935	163	43	770	7,1	On request	On request	On request	AF1506M	AF1506S	AF1506A	On request	On request
	2 1/2"	16/232	1680	990	935	163	43	770	6,9	On request	On request	On request	AF1756M	AF1756S	AF1756A	On request	On request
3	16/232	2160	1270	795	240	59	630	12,9	On request	On request	On request	AF2006M	AF2006S	AF2006A	On request	On request	
3	16/232	2760	1620	1000	240	59	780	14,0	On request	On request	On request	AF2406M	AF2406S	AF2406A	On request	On request	
quality class - solids (ISO 8573-1)										7	6	3	2	1	1 ³⁾	1 ³⁾	1 ³⁾
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.
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		
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
max. operating temperature (°C / °F)										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 cleared 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.

REPLACEMENT COMPRESSED AIR FILTER ELEMENTS

B grade 5 µm	P grade 3 µm	R grade 1 µm	M grade 0.1 µm	S grade 0.01 µm	Activated carbon
prefilter	prefilter	prefilter	microfilter	microfilter	activated carbon
quality class (ISO 8573-1)	quality class (ISO 8573-1)	quality class (ISO 8573-1)	quality class (ISO 8573-1)	quality class (ISO 8573-1)	quality class (ISO 8573-1)
solids: 7	solids: 6	solids: 3	solids: 2	solids: 1	solids: 1
oils: -	oils: -	oils: -	oils: 2	oils: 1	oils: 1
material	material	material	material	material	material
- sintered brass	- acrylic fibres - cellulose	- acrylic fibres - cellulose	- borosilicate micro fibres	- borosilicate micro fibres	- activated carbon - borosilicate micro fibres

A² grade H² grade

REPLACEMENT FILTER ELEMENTS									
Filter housing	Pipe size inch	B sintered 15 µm	P prefilter 3 µm	R prefilter 1 µm	M microfilter 0,1 µm	S ²⁾ microfilter 0,01 µm	A ¹⁾ activated carbon	A adsorption (act. carbon)	H ²⁾ catalyst (hopcalite)
AF0056M	3/8	On request	On request	On request	06050M ³⁾	06050S ³⁾	06050A ³⁾	On request	On request
AF0076M	1/2	On request	On request	On request	07050M ³⁾	07050S ³⁾	07050A ³⁾	On request	On request
AF0106M	3/4	On request	On request	On request	14050M	14050S	14050A	On request	On request
AF0186M	1	On request	On request	On request	12075M	12075S	12075A	On request	On request
AF0306M	1	On request	On request	On request	22075M	22075S	22075A	On request	On request
AF0476M	1 1/2	On request	On request	On request	32075M	32075P	32075A	On request	On request
AF0706M	1 1/2	On request	On request	On request	50075M	50075S	50075A	On request	On request
AF0946M	2	On request	On request	On request	51090M	51090S	51090A	On request	On request
AF1506M	2	On request	On request	On request	76090M	76090S	76090A	On request	On request
AF1756M	2 1/2	On request	On request	On request	76090M	76090S	76090A	On request	On request
AF2006M	3	On request	On request	On request	51140M	51140S	51140A	On request	On request
AF2406M	3	On request	On request	On request	75140M	75140S	75140A	On request	On request

adsorption	catalyst
quality class (ISO 8573-1)	quality class (ISO 8573-1)
solids: 1	solids: 1
oils: 0/1	oils: -
material	material
- borosilicate micro fibres - activated carbon	- borosilicate micro fibres - hopcalite