



COMPRESSED AIR FILTERS

High efficiency filtration for clean & technically oil-free compressed air

G-SERIES / F-SERIES

Engineering Solutions to Cleaner Air

Why We Need To Purify Our Compressed Air

In just one cubic metre of air, there are millions of particles potentially harmful to your machines and equipments. These are primarily made up dust, bacteria, viruses, smoke, fumes, hydrocarbons, water, oil and other contaminants derived from human and industrial activities. When this air is sucked into your compressor and compressed to 8 bar pressure, for instance, the concentration of particles will increase by eight times. This will make the air more troublesome by eightfold.

Troublesome in the sense that roughly 80% of these particles are so small that they will pass easily through your compressor's intake filters and find their way to your process line to cause either frequent expensive downtime of your pneumatic machine or adversely affect the quality of your end products.

This is why it makes economical sense to incorporate compressed air treatment into your compressed air system as the benefits would outweigh the cost, which would probably be only a small fraction of your total business investment.

With this in mind, Airfilter Engineering has ventured forth to produce a range of high quality filters, with essential parts being imported from renowned suppliers in Europe.

However, in the end, it is the highly efficient pleated filtration media produced by Airfilter Engineering that makes all the difference.

AFE Filter Grades

Airfilter Engineering (AFE) has developed a comprehensive range of filter grades to cater to the requirements of different applications. All our filter media are of pleated design to ensure higher filtration area. Here at AFE, filters and elements can also be custom-made to suit your needs.

AFE Filter Grade P

- For coarse pre-filtration
- Particle removal down to 3 micron

AFE Filter Grade U

- For general filtration
- Particle removal down to 1 micron
- Oil content down to 0.1 mg/m³ at 20°C

AFE Filter Grade H

- For high performance filtration
- Particle removal down to 0.01 micron
- Oil content down to 0.01 mg/m³ at 20°C

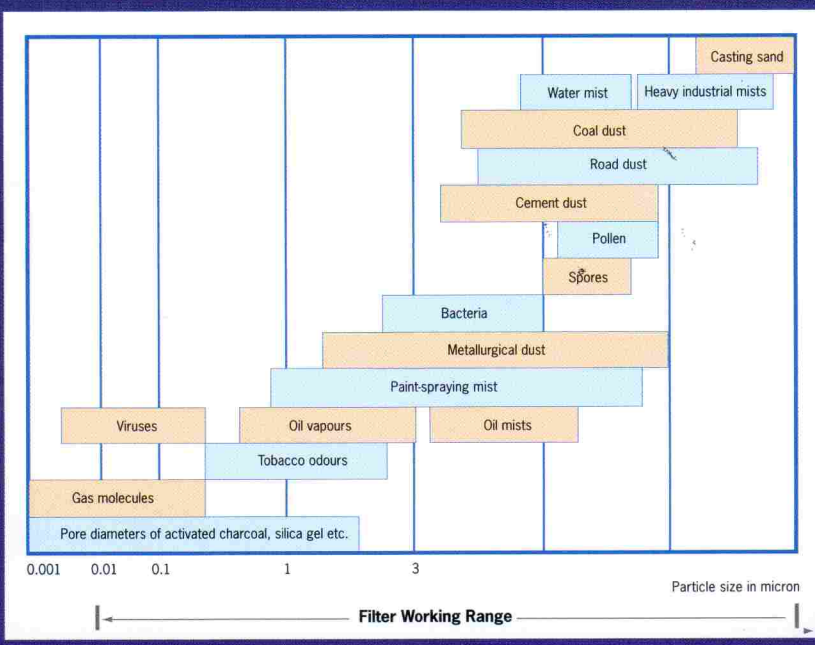
AFE Filter Grade S

- For high performance filtration
- Particle removal down to 0.01 micron. Oil content down to 0.001 mg/m³ at 20°C in conjunction with filter grade H

AFE Filter Grade C

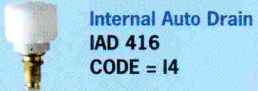
- Activated carbon filter. For odour removal. Applicable in oil lubricated compressors.
- For removal of oil content down to 0.003 mg/m³ at 20°C in conjunction with filter grade H

Nature And Extent Of Air Impurities



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Accessories



Internal Auto Drain
IAD 416
CODE = I4



Semi Auto Drain
SAD 116
CODE = S1



Internal Auto Drain
IAD 316
CODE = I3



Mounting Kits
MB 1030
MB 55220



External Auto Drain
EAD 416
CODE = E4



Connecting Kits
CK1 & CK2



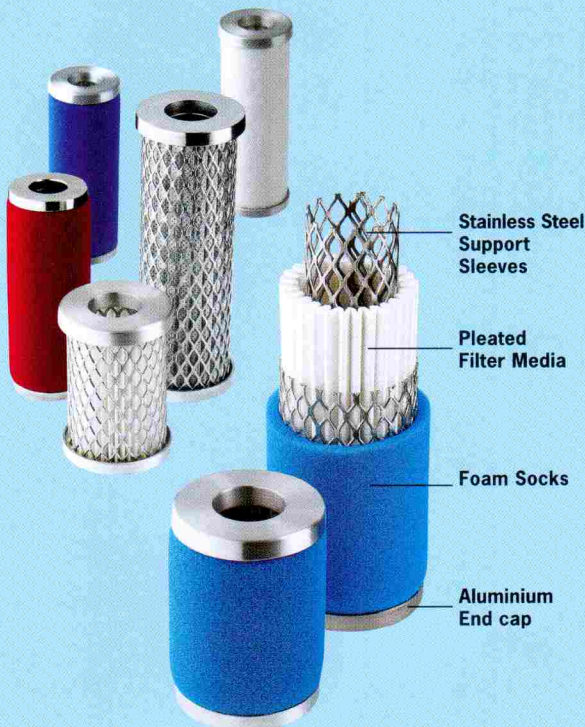
Differential Pressure Indicator
DP 11
CODE = A



Differential Pressure Gauge
DP 12
CODE = B

The basic benefits that we can offer with our pleated filter media are:

- Higher effective filtration area
- Higher dirt holding capacity
- Lower pressure drop
- Possibility of higher air flow

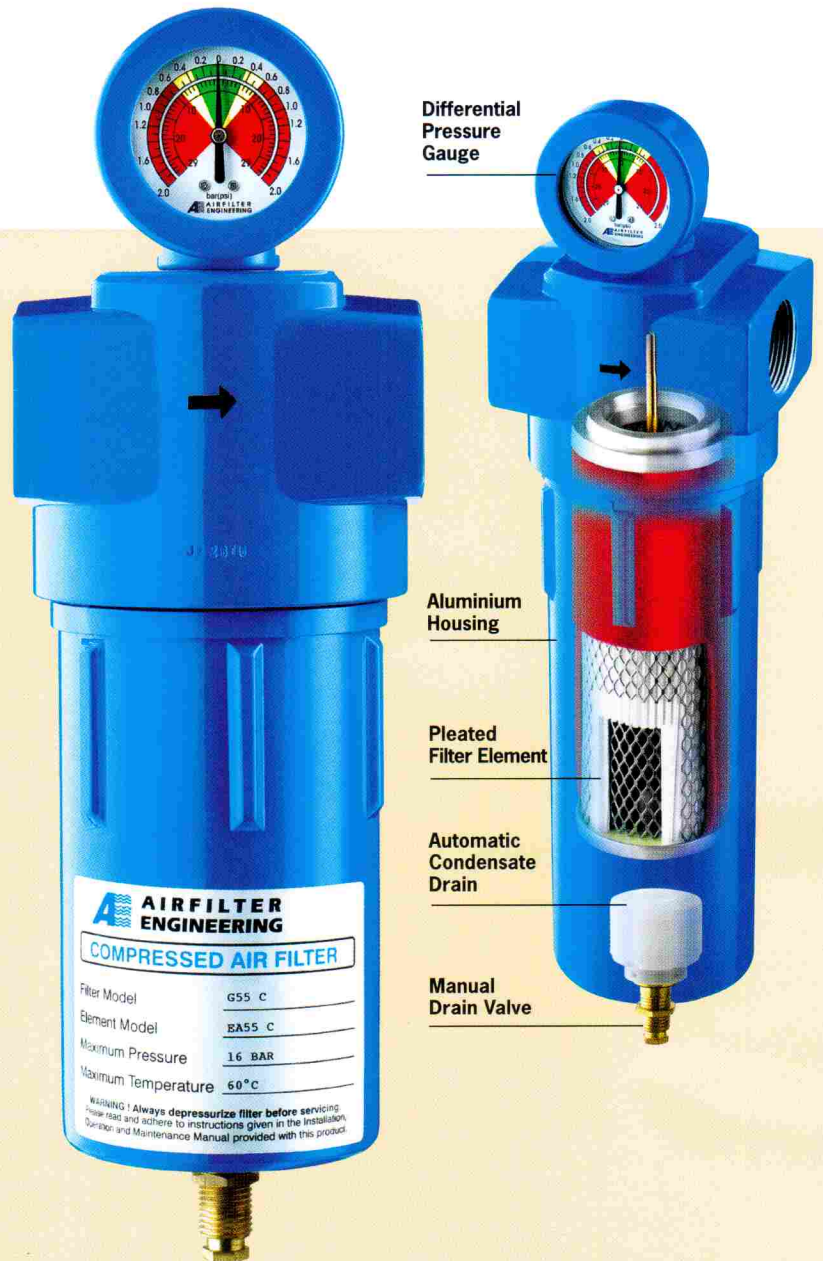


Stainless Steel Support Sleeves

Pleated Filter Media

Foam Socks

Aluminium End cap



Differential Pressure Gauge

Aluminium Housing

Pleated Filter Element

Automatic Condensate Drain

Manual Drain Valve

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COMPRESSED AIR FILTER

Filter Model: G55 C
Element Model: EA55 C
Maximum Pressure: 16 BAR
Maximum Temperature: 60°C

WARNING: Always depressurize filter before servicing. Please read and adhere to instructions given in the installation, Operation and Maintenance Manual provided with this product.

ISO - 8573 Part 1 Compressed Air Quality Class : 2001

Class	Solid Particulate Per m ³			Water Pressure dewpoint C°	Oil mg/m ³
	0.1-0.5 µm	0.5-1 µm	1-5 µm		
1	100	1	0	-70	0.01
2	100000	1000	10	-40	0.1
3	-	10000	500	-20	1
4	-	-	1000	3	5
5	-	-	20000	7	-
6	-	-	-	10	-

ISO 8573 is the group of international standards relating to compressed air quality

Using the ISO Quality Class Table, a maximum level of contaminants can be specified for each air quality class (Solid Particulate, Water Vapor & Oil at point of application)

Example:

"ISO 8573 : Class 1.2.1"

Not more than 100 Solid Particles 0.1-0.5 µm. Not more than 1 Solid Particles 0.5-1 µm.

No Solid Particles >1 µm.

Water Pressure Dew Point ≤-40°C. Oil (including oil vapour) ≤0.01 mg-m3

Filter Technical Information

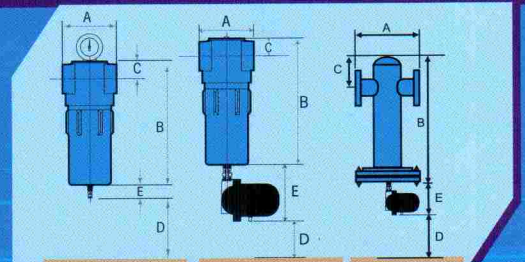
	Filter Model AFE	Pipe Conn.	16 Bar Filters (232 Psi)		50 Bar Filters (725 Psi)		Approx. weight (kg)	Dimensions					Replacement Element Model
			Capacity @ 7 bar g		Capacity @ 50 bar g			A	B	C	D	E	
			m ³ /min	cfm	m ³ /min	cfm							
THREADED	G0010	G 1/2	0.66	23	1.49	52	0.90	87	151	24	60	41	EA10
	G0015	G 1/2	0.96	34	2.16	76	0.95	87	192	24	75	41	EA15
	G0020	G 1/2	1.32	47	2.97	105	0.95	87	192	24	90	41	EA20
	G0030	G 3/4	1.98	70	4.46	157	1.30	87	263	24	90	41	EA30
	G0055	G1	3.30	116	7.43	262	3.60	130	285	43	135	41	EA55
	G0095	G1 1/2	5.70	201	12.83	453	4.10	130	380	43	235	41	EA95
	G0150	G1 1/2	9.00	318	20.25	715	4.60	130	482	43	335	41	EA150
	G0220	G1 1/2	13.32	470	29.97	1058	6.70	130	692	43	525	41	EA220
	G0290	G2	17.46	616	43.65	1541	8.90	162	686	55	520	140	EA290
	G0430	G2 1/2	26.16	923	-	-	11.00	162	937	55	770	140	EA430
	G0625	G3	37.50	1324	-	-	26.20	252	910	79	610	140	EA625
	G0775	G3	46.62	1645	-	-	27.70	252	1060	79	760	140	EA775
FLANGED	F0515*-E4-B	DN80	30.80	1087	-	-	100.50	449	1093	176	580	165	EA515*
	F0625*-E4-B	DN80	37.50	1324	-	-	135.20	503	1230	211	580	165	EA625*
	F0775*-E4-B	DN80	46.62	1645	-	-	136.00	503	1230	211	580	165	EA775*
	F1028*-E4-B	DN100	61.60	2174	-	-	220.60	652	1286	259	580	165	EA515*x 2
	F1542*-E4-B	DN100	92.40	3261	-	-	222.10	652	1286	259	580	165	EA515*x 3
	F2056*-E4-B	DN150	123.20	4348	-	-	285.00	686	1394	299	580	165	EA515*x 4
	F3084*-E4-B	DN150	184.80	6522	-	-	352.30	757	1416	312	580	165	EA515*x 6
	F4112*-E4-B	DN200	246.40	8696	-	-	438.30	805	1536	341	580	165	EA515*x 8
	F5140*-E4-B	DN200	308.00	10870	-	-	523.40	856	1581	360	580	165	EA515*x 10
	F6168*-E4-B	DN250	369.60	13044	-	-	749.00	960	1718	420	610	165	EA515*x 12
	F8224*-E4-B	DN250	492.80	17392	-	-	763.40	960	1718	420	610	165	EA515*x 16
	F10280*-E4-B	DN300	616.00	21740	-	-	833.00	944	1732	445	610	165	EA515*x 20

Capacity Correction Factor For Various Operating Pressure

Pressure	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Factor	0.25	0.38	0.50	0.65	0.75	0.88	1.00	1.13	1.25	1.38	1.50	1.63	1.75	1.88	2.00	2.13

Filter Grade	Particle Removal Down To	Oil Removal Down To*	Nominal initial Pressure Drop
P	3 micron	-	0.03 bar g
U	1 micron	0.1mg/m ³	0.05 bar g
H	0.01 micron	0.01mg/m ³	0.09 bar g
S	0.01 micron	0.001mg/m ³	0.10 bar g
C		0.003mg/m	0.10 bar g

*at 20°C



GENERAL INFORMATION

Maximum recommended operating temperature of 60°C (high temperature range is also available)
 Minimum recommended operating temperature 1°C
 Maximum recommended operating pressure of 16 bar g and 50 bar g.
 Maximum recommended pressure differential for element change is 0.6 bar g. (Except Grade C)
 Material for G-Type filters is aluminium. Material for F-Type filters is steel.
 Filters come complete with auto-drain (16 bar) or manual drain (50 bar).
 The weights provided are approximate and do not include packaging and gauge.

Note: Will also make filters to customer's requirement, subject to negotiation. Airfilter Engineering reserves the right to change specifications and details without prior notice.



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