

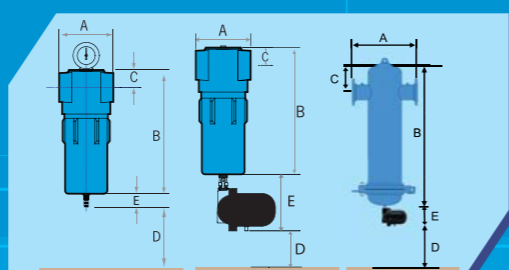
**Filter Technical Information**

	Filter Model AFE	Pipe Conn.	16 Bar Filters (232 Psi) Capacity @ 7 bar g		Max Oper. Pressure		Approx. weight (kg)	Dimensions					Replacement Element Model
			m <sup>3</sup> /min	cfm	(bar g)	(psi g)		A	B	C	D	E	
THREADED	G10	G 1/2	0.66	23	16	232	1.34	85	154	24	60	41	EA10
	G15	G 1/2	0.96	34	16	232	1.45	85	185	24	75	41	EA15
	G20	G 1/2	1.32	47	16	232	1.46	85	185	24	90	41	EA20
	G30	G 3/4	1.98	70	16	232	1.72	85	255	24	90	41	EA30
	G55	G1	3.30	116	16	232	4.1	132	285	43	135	41	EA55
	G95	G1 1/2	5.70	201	16	232	4.52	132	385	43	235	41	EA95
	G150	G1 1/2	9.00	318	16	232	5.01	132	485	43	335	41	EA150
	G220	G1 1/2	13.32	470	16	232	7.45	132	685	43	525	41	EA220
	GE290	G2	17.46	616	16	232	12.00	161	687	55	520	140	EA290
	GE430	G2 1/2	26.16	923	16	232	14.97	161	930	55	770	140	EA430
GE625	G3	37.50	1324	12	174	30.95	252	905	79	610	140	EA625	
GE775	G3	46.62	1645	12	174	32.99	252	1057	79	760	140	EA775	
FLANGED	F0430	DN80	26.16	923	16	232	100.50	449	1093	176	580	165	EA430 (1)
	F0625	DN80	37.50	1324	16	232	135.20	503	1230	211	580	165	EA625 (1)
	F0775	DN80	46.62	1645	16	232	136.00	503	1230	211	580	165	EA775 (1)
	F0870	DN100	52.32	1847	16	232	220.60	652	1286	259	580	165	EA430 (2)
	F1300	DN100	78.48	2770	16	232	222.10	652	1286	259	580	165	EA430 (3)
	F1745	DN150	104.70	3695	16	232	285.00	686	1394	299	580	165	EA430 (4)
	F2615	DN150	156.96	5540	16	232	352.30	757	1416	312	580	165	EA430 (6)
	F3485	DN200	209.28	7386	16	232	438.30	805	1536	341	580	165	EA430 (8)
	F4025	DN200	261.66	9235	16	232	523.40	856	1581	360	580	165	EA430 (10)
	F5230	DN250	313.98	11082	12	174	749.00	960	1718	420	610	165	EA430 (12)
	F6975	DN250	418.62	14775	12	174	763.40	960	1718	420	610	165	EA430 (16)
	F8720	DN300	523.32	18470	12	174	833.00	944	1732	445	610	165	EA430 (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 <sup>3</sup>	0.05 bar g
H	0.01 micron	0.01mg/m <sup>3</sup>	0.09 bar g
S	0.01 micron	0.001mg/m <sup>3</sup>	0.10 bar g
C	-	0.003mg/m	0.10 bar g



**GENERAL INFORMATION**

- Filter housings comply to the PED 2014/68/EU
- Minimum recommended operating temperature 1°C.
- Filters come complete with auto drain. Gauges are optional.
- Material for G-Type filters is aluminium. Material for F-Type filters is steel.
- The weight of the compressed air filters does not include packaging and gauge.
- Maximum recommended pressure differential for element change is 0.6 bar g. (Except Grade C)
- Maximum recommended operating temperature of 60°C (high temperature range is also available)

Note: Will also make filters to customer's requirement, subject to negotiation.

Airfilter Engineering reserves the right to change specifications without prior notice. (V9/09/16/E)



# 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/m<sup>3</sup> 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/m<sup>3</sup> at 20°C

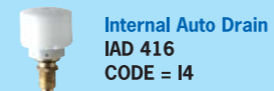
### AFE Filter Grade S

- For high performance filtration
- Particle removal down to 0.01 micron. Oil content down to 0.001 mg/m<sup>3</sup> 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/m<sup>3</sup> at 20°C in conjunction with filter grade H

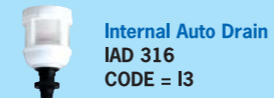
## Accessories



**Internal Auto Drain**  
IAD 416  
CODE = I4



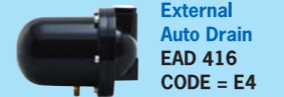
**Semi Auto Drain**  
SAD 116  
CODE = S1



**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

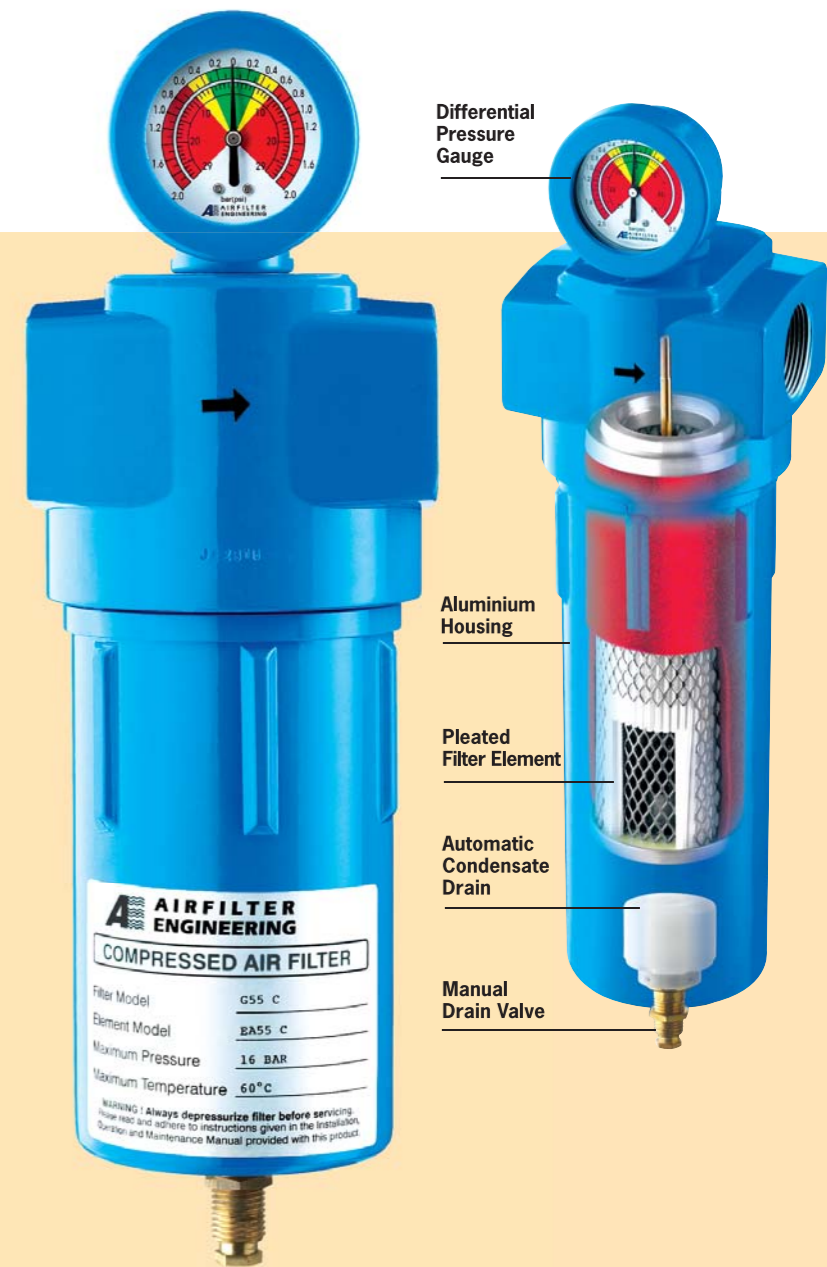
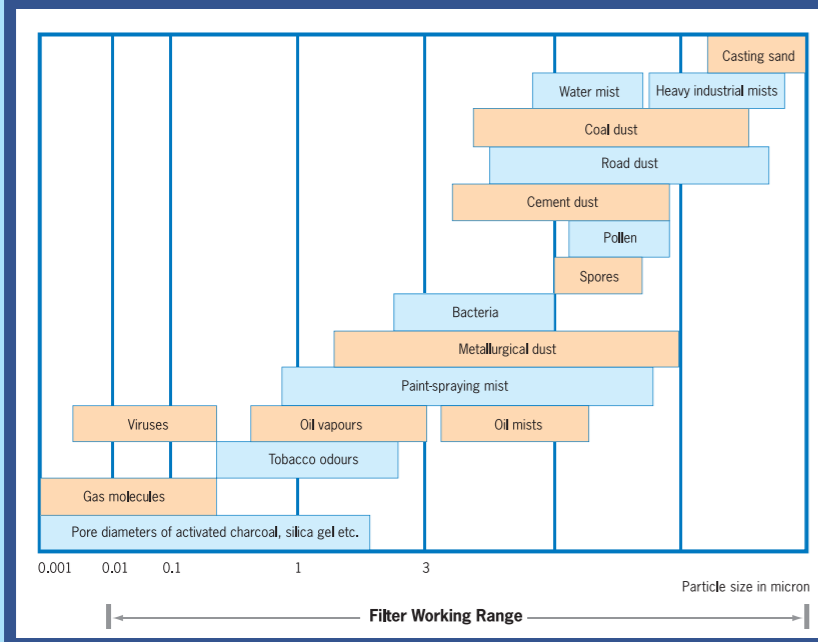


**Differential Pressure Gauge**  
DP 12  
CODE = B

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

## Nature And Extent Of Air Impurities



## ISO - 8573 Part 1 Compressed Air Quality Class : 2001

Class	Solid Particulate Per m <sup>3</sup>			Water Pressure dewpoint C°	Oil mg/m <sup>3</sup>
	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-m<sup>3</sup>