

## COMPRESSED AIR FILTERS (UP TO 16 BAR)

The compressed air filters are used to treat compressed air and other gases by removing solid particles and oil from them.

They are the necessary part of the compressed air preparation system, whose aim is to improve durability and extend service life of the pneumatic and control elements and actuators. Depending on the filter element used, with specific filtration accuracy, the required compressed air purity class suitable for individual industrial applications is obtained.

### DF series dust, oil and carbon filters

The DF series compressed air filters are designed for industrial treatment of compressed air or other gases. They are equipped with the economizer (mechanical differential pressure monitor) or economizer (differential pressure monitor indicating the most economic time to change the filter element).

Pre-filter	Initial filtration of solid particles and water and oil mist
Solid particles	< 3 µm
Residual oil content	< 0,2 mg/m <sup>3</sup>
Compressed air quality (oil particles)	ISO 8573.1 Class 3
Pressure drop in filter	0,11 bar

Fine filter	Fine filtration of solid particles and water and oil mist
Solid particles	< 0,1 µm
Residual oil content	< 0,02 mg/m <sup>3</sup>
Compressed air quality (oil particles)	ISO 8573.1 Class 2
Pressure drop in filter	0,08 bar

Very fine filter	Very fine filtration of solid particles and water and oil mist
Solid particles	< 0,01 µm
Residual oil content	< 0,01 mg/m <sup>3</sup>
Compressed air quality (oil particles)	ISO 8573.1 Class 1
Pressure drop in filter	0,10 bar

Carbon filter (with activated carbon)	Adsorption of oil vapour and odour
Residual oil content	0,003 mg/m <sup>3</sup>
Compressed air quality (oil particles)	ISO 8573.1 Class 1
Pressure drop in filter (install always together with filter and M or S element)	0,13 bar

**ECONOMIZER**  
means:  
**ECONOMY** – the intelligent way to calculate the most advantageous time to change the filter element

**COMFORT** – LED display informs with the message about the need to change the filter element

### DF series filter elements:

- V – pre-filter element
- M – fine filter element
- S – very fine filter element
- A – carbon filter element



standard version

plus version

superplus version

## Accessories for DF series filters

- standard version: float operated drain, economizer,
- plus version: float operated drain, economizer,
- superplus version: electronic level controlled condensate drain, economizer.

Type	Flow*	Connection	Max operating pressure	Dimensions						Weight		Cartridge	
				A			B	C		D	standard/plus		superplus
	standard			plus	superplus	standard/plus		superplus					
	m <sup>3</sup> /h			bar	mm	mm	mm	mm	mm	mm	kg		kg
DF 0035	35	G 1/4	16	181	255	405	76	22	178	100	0,5	1,5	V,M,S,A
DF 0070	70	G 3/8	16	291	297	450	103	22	178	115	0,9	1,9	V,M,S,A
DF 0120	120	G 1/2	16	335	335	495	103	22	178	150	1,0	2,0	V,M,S,A
DF 0210	210	G 3/4	16	367	367	535	139	22	178	180	2	3	V,M,S,A
DF 0320	320	G 1	16	437	437	595	139	22	178	250	2,2	3,2	V,M,S,A
DF 0450	450	G 1 1/4	16	581	581	740	190	22	178	250	5,2	6,6	V,M,S,A
DF 0600	600	G 1 1/2	16	581	581	740	190	22	211	250	5,2	6,6	V,M,S,A
DF 0750	750	G 2	16	581	581	740	190	22	211	250	5,2	6,6	V,M,S,A
DF 1100	1100	G 2	16	763	763	840	190	103	211	250	6,9	7,2	V,M,S,A

\*Nominal flow at: 1bar abs. and 20°C at the compressor suction and compressed air pressure of 7 bar.

Correction factors for DF flow filters for operating conditions other than nominal														
Compressed air pressure [bar]														
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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

