

## 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.

### FP series dust, oil and carbon filters

Pre-filter	Initial filtration of solid particles
Solid particles	3 µm
Compressed air quality	ISO 8573.1 Class 3
Pressure drop in filter	0,01 bar

Fine filter	Fine filtration of solid particles and water and oil mist
Solid particles	< 1 µm
Residual oil content	< 0,1 mg/m <sup>3</sup>
Compressed air quality	ISO 8573.1 Class 2
Pressure drop in filter	0,05 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	ISO 8573.1 Class 1
Pressure drop in filter	0,08 bar

Carbon filter (with activated carbon)	Adsorption of oil vapour and odour
Residual oil content	0,005 mg/m <sup>3</sup>
Compressed air quality	ISO 8573.1 Class 1
Pressure drop in filter (install always together with filter and S element)	0,06 bar



### FP series filter elements:

- Q – pre-filter element      P – fine filter element  
 S – very fine filter element      C – carbon filter element

Differential pressure gauge  
- indicator of the filter element  
contamination (option)



Condensate drains



mechanical condensate  
drain – standard  
equipment



float operated mechanical  
condensate drain (option)



electronic timer  
controlled condensate  
drain (option)



electronic no-loss drain  
(condensate level sensor) (option)

Type	Flow* m <sup>3</sup> /h	Connection	Max operating pressure bar	Dimensions				Weight kg	Cartridge
				A mm	B mm	C mm	D mm		
FP 78	78	G 1/2	16	187	88	20	60	1,1	Q,P,S,C
FP 120	120	G 3/4	16	257	88	20	80	1,2	Q,P,S,C
FP 335	335	G 1	16	363	125	32	120	3,2	Q,P,S,C
FP 510	510	G 1 1/2	16	461	125	32	140	3,7	Q,P,S,C
FP 780	780	G 1 1/2	16	640	125	32	160	4,8	Q,P,S,C
FP 996	996	G 2	16	684	163	43	520	8,8	Q,P,S,C
FP 1500	1500	G 2	16	935	163	43	770	13,5	Q,P,S,C
FP 2400	2760	G 3	16	1000	240	59	780	30,5	Q,P,S,C

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

Correction factors for FP 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



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