



FILTERS F

Automatic filters for air-separation powder are planned to work pressure/negative pressure.

RESISTANCE TO PRESSURE / NEGATIVE PRESSURE = 300 mbar cleaning with a jet of compressed air in counter-flow

Filter Elements: sleeves with circular section with snap-ring connection.

Valves with electro-pneumatic control.

Control of cleaning by electronic panel.

Option: control of pressure drop with automation panel cleaning.

APPLICATION SECTORS

- Ceramic industry
- Chemistry
- Energy: coal
- Glass industry
- Machine rejections recovery
- Metallurgical sector
- Mining industry
- Refractory materials



WORKING

The dusty fluid comes into a chamber, provided with different systems of laying, then it flows through a battery of filter-elements that holds up the dusty fraction and allows the fluid phase to reach the chimney.

A flow of compressed air, injected cyclically in counter-current inside the filter-elements, throw off the dusty fraction on the filter elements, that is collected in a hopper. On request a system of optimization of the compressed air consumption can be supplied. The flow of compressed air in counter current for the cleaning of the filter elements is driven by a series of electro-pneumatic valves, that are operated by a sequential panel, to clean immediately only a part of the filtering area, so that it is not necessary to stop the flow of the dusty fluid.

CONSTRUCTION

Filters are formed by a casing made of carbon steel; at the top it's placed a sturdy pierced plate on which are fixed the filter elements, inside each filter-element there is a basket made of steel wire with a venture pipe at the top. Assembly and disassembly of the filter-elements together with baskets and venture pipes is made without bolts.

Collectors with the blowing nozzles for compressed air are placed on the filter-elements plate.

The electro-pneumatic valves are placed are assembled on compressed air tank outside the filter.