

## Pneumatic transport systems for dry materials

### Type of product:

- dry materials.

### Application:

- chemical industry.

### Cycle of work:

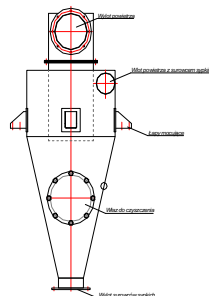
Conveyed air feeding source is air blowers or diesel fans, placed usually in separate rooms, where air driers are applied in order not to let conveyed materials form in lumps due to dumping.

Dry materials from storage tanks are dosed to piping system by a rotary van feeder. Air urge blows away dry materials and conveys them to receiving tanks through a cyclone, where dry materials are separated from conveying air. Air from cyclone is drawn by a fan through duster and thrown away to the atmosphere. Dust is kept by cartridge filters.

Cyclical cartridge filters are shaker off by gusts of compressed air. Dust falls down to a tank in a duster, from where it is every now and again removed by an operator.

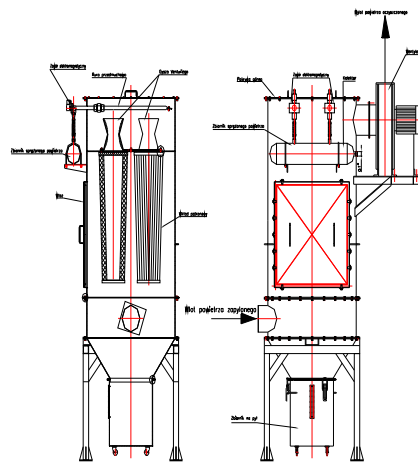
Dry materials from a cyclone are transferred to a receiving tank by gravity. Then dry materials are fed into machines and devices that transform them into final products by a rotary van feeder and worm conveyor.

### Selected system's parts:



Drawing1. **Cyclone** separating conveying air from dry materials

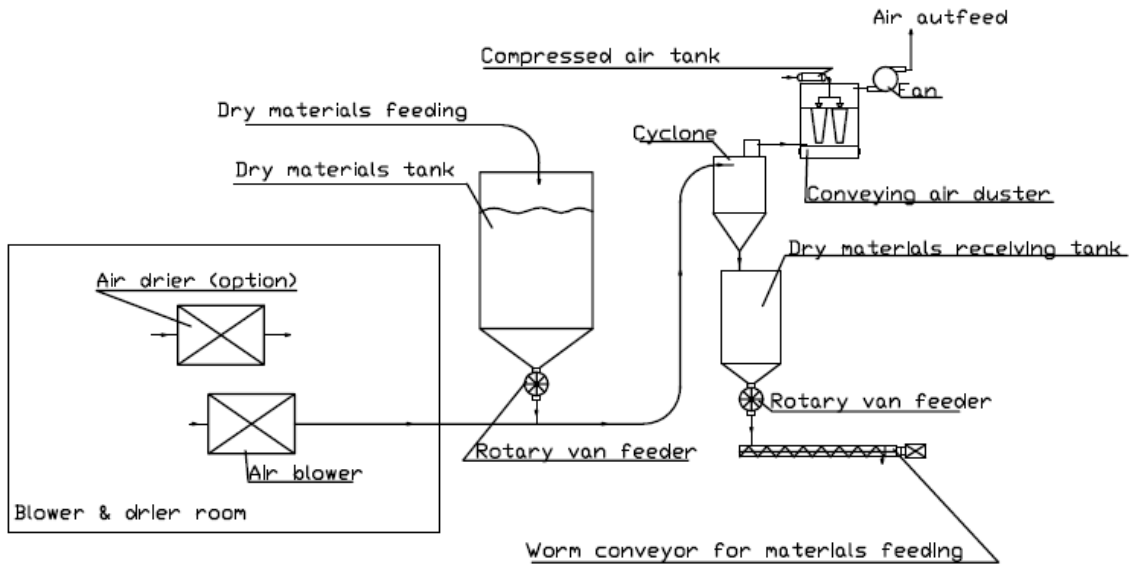
Conveying air falls down with dry materials by an infeed connection to a cyclone. Dry materials spirally fall to an outfeed connection by gravity. Air by an outfeed connection in an upper part of a cyclone is sucked to a duster by fans.



Drawing2. **Duster with cartridge inputs** that filters conveying air.

Dusted air falls into a duster through an infeed connection. Cartridge inputs filter dust and pure air is drawn from a duster by a fan and thrown away. There is a tank with compressed air mounted on a duster. Electromagnetic valves periodically open themselves and compressed air shakes off dust from cartridges to a tank for dust, that is placed in a lower part of a duster. An operator every now and again removes a tank for dust and cleans it up. Cartridge inputs every a few months need to be dismantled through a hatch cover, cleaned up and mantled again.

Ideological schema of pneumatic transport is shown underneath.  
Pneumatic transport systems may be adopted to the Investor's needs.



Ideological scheme of pneumatic transport

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