



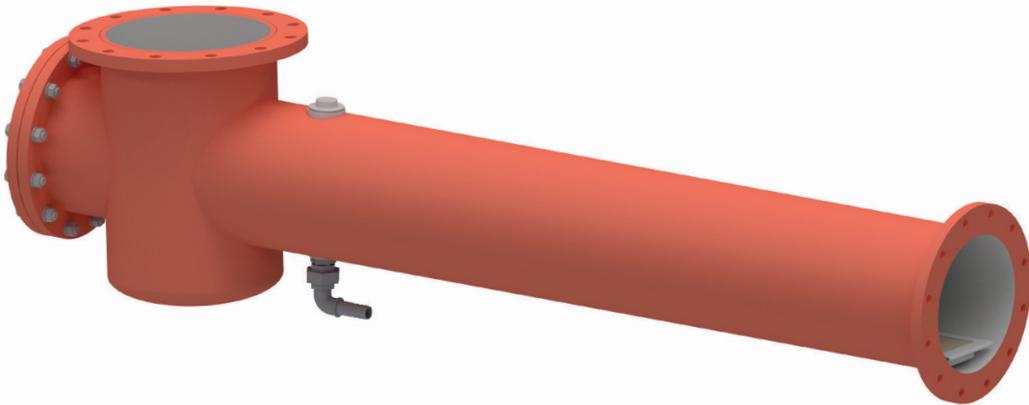
- PNEUMATIC CONVEYING
 - DEDUSTING
 - VENTILATION
-

FLUID CONVEYORS FD, FDT

For horizontal transport of powder materials

This fluid conveyor is designed for horizontal transport of powder materials from bins, silos or technological equipment, specifically **in a very dense phase**. It consists of a circular tube and aeration boxes located in its bottom. The conveyor air is brought to the fluid conveyor from a parallel air duct via an aeration box connection.

The conveyor air is usually produced by a blower, although a high-pressure fan or compressed air network can also be used. The equipment uses the gravity effect on the material, so its **energy requirements and air consumption are very low**.



The fluid conveyor runs at very low conveying speeds and a high power; it does not suffer from wear and is therefore suitable for transport of highly abrasive dusts. **This fluid conveyor is maintenance-free**. Owing to its original design free from any movable parts the product features a high conveying capacity, operational reliability, wear resistance and a very long service life. The system produces no sources of initiation and so its antistatic version can be used to transport explosive materials.



More information about the Fluid Conveyors can be found in the technical specifications RK 12 1533, displayed at our website www.rayman.cz for additional information.

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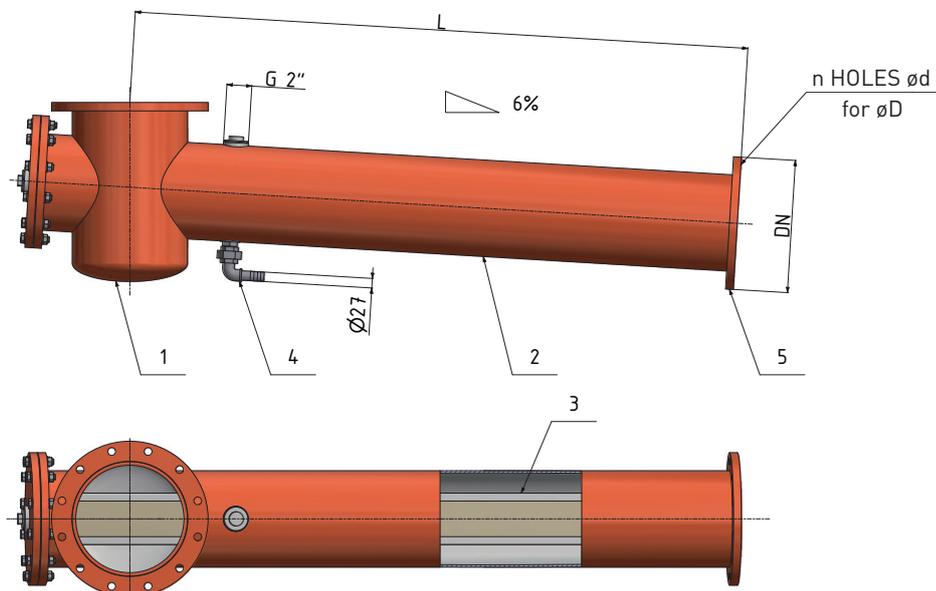
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Picture description

1. Intake chamber
2. Tube
3. Aeration box
4. Aeration air connection
5. Outlet neck



Main construction dimensions

The typical inner diameters of the conveyor are DN 200 and DN 250, although DN 150, DN 300 and DN 400 can also be obtained on request. Operating pressures are ≤ 50 kPa for the non-pressurized FD version and ≤ 250 kPa for the pressurized FDT version, the operating temperatures are $\leq 150^\circ\text{C}$ and $\leq 200^\circ\text{C}$, respectively. The fluid conveyors can be assembled from the parts into lines of any lengths, the type length of a single part of the fluid conveyor is ≤ 5000 mm depending on the design version.

Basic technical data

Fluid conveyor parameters:

Inclination	0 – 16% depending on the design
Maximum operating temperature of the material transported	+150 °C and +200 °C
Maximum working positive pressure	0,05 and 0,25 MPa
Weight	see the table in the Technical Specifications
Hose adaptor diameter	27 mm (1" hose)

Conveyor air requirements:

Consumption	≥ 5 m ³ /h per linear metre
Parameters	as per design
Temperature	up to 100 °C
Kvalita	no oil or mechanical impurities, freed from water, untreated or treated depending on the material to be transported

The inlet and outlet connections, conveyor air consumption as well as the fluid conveyor length depend on the product design.