



Pneumatic Conveying



Pressure vessel conveyor T

The KLEIN-conveyor type T is made for the transport of dry, granular and free flowing bulk material such as silica sand or similar products.

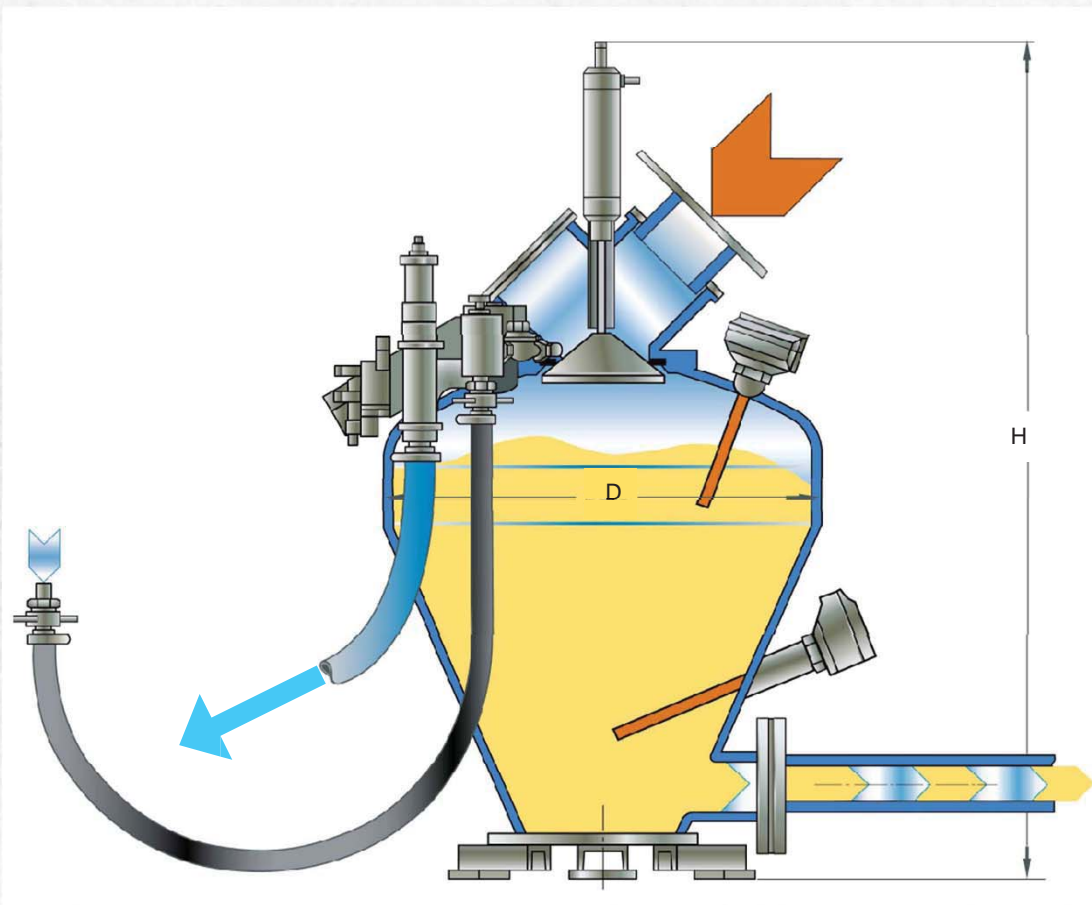
The type T is a conventional pressure vessel conveyor. When filled up it is pressurized and the conveying cycle starts and continuous until it is empty. At the moment it is empty the conveying stream will be stopped for refilling of the pressure vessel. The conveyor is equipped with level sensors to detect full or empty level. The system has following features:

- dust tight axial and angular adjustable inlet connection
- valve rack in compact design, ability to install the rack separated from the conveyor
- robust valves
- three-point bearing to guarantee a solid stand even without fastening to a foundation
- no moving parts within the vessel therefore easy to maintain
- adaptable to temperatures of up to 200° C
- compact unit available for small capacities (below 2 t/h)





T.type conveyor



Filling

- inlet cone is open
- deaeration is open
- sand enters

Closing

- filling level reaches the MAX-probe
- inlet cone is closed
- deaeration is closed

Conveying

- conveying air is switched on (the vessel is pressurized)
- the material is conveyed through the pipeline to the receiver
- deaeration is closed

Deaeration

- filling level falls below MIN-probe
- conveying air is switched off
- deaeration is opened
- inlet cone is opened



Comparison of conveying systems

Pressure vessel conveyor type PF-100

Pressure vessel conveyor type T

o batch size:	25 ltr
o working temperature:	max. 50° C
o grain size range:	0.063 mm – 0.71 mm (max. 5 % up to 1 mm) AFS-no. up to 70
o max. dust content:	0.5 %, of material < 0.063 mm
o energy:	savings of up to 40 % (compressed air)
o conveying cycles:	designed for continuous operation

50 ltr – 1000 ltr
up to 200° C
0.063 mm – 2 mm (max. 3 mm) AFS-no. up to 80 - 90
up to 3 %, of material < 0.063 mm
possibility of single batches