

Dense Phase Vackonveyor

Dense phase conveying is a highly reliable pneumatic conveying system with a low velocity and a high product/air ratio, suitable to convey powders and granules. With dense phase conveyors the product is introduced into the conveying line through a pressure vessel and is suitable to convey products from a single point to one or more receiving points.

Vacuum filling

The Vackonveyor is executed with a special by-pass venture system which enables the vessel to be filled by vacuum. This makes it possible to use the system where height is limited or if the vessel cannot be filled by gravity. By pressurising the vessel a product plug will be forced to slide slowly through the conveying line, resulting in low wear of the conveying line and causing a low particle movement. The Vackonveyor is suitable for conveying of easy flowing or fluidisable products as well as cohesive products



Due to the dense phase conveying principle the pressure in the system will be higher than in a dilute phase system and results in pressures of 1 to 6 bar. Conveying velocities of 1-10 m/s and distances of 500 m or more with capacities up to 100 t/hr can be achieved. The inlet valve, being the only moving part, makes the special designed dense phase "Vackonveyor" suitable for conveying abrasive products and products where no segregation or degradation is allowed...

Pulsation system

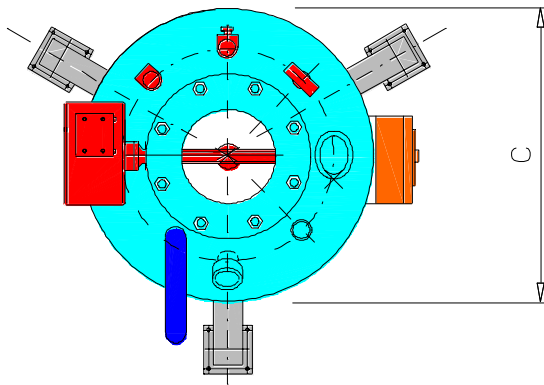
If required the system can be executed with a pulsation system, which interrupts and divides the endless product plug into small plugs, resulting in a lower resistance of the product column.



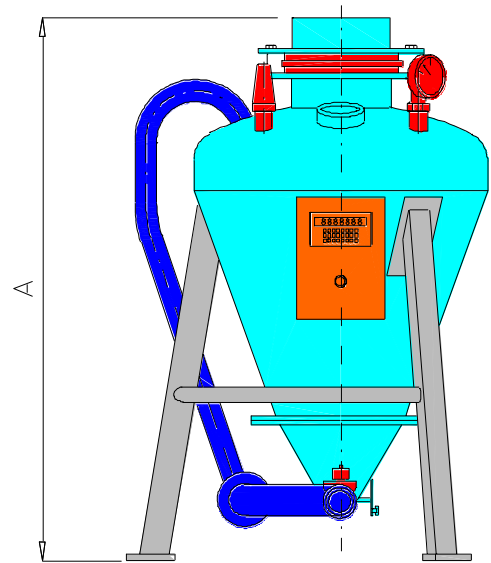
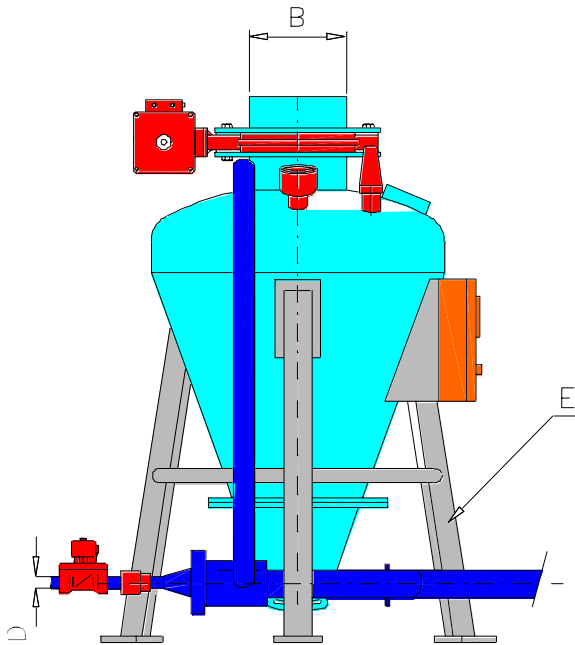
Benefits:

- Vacuum filling
- No filter needed at product intake
- Low velocities
- Little segregation and degradation
- Smaller piping diameter
- Low air consumption
- Low investments
- Conveying abrasive products, low wear
- Conveying fragile products
- Little maintenance

Mobile Vackonveyor with vacuum loading and dense-phase discharge
Capacity: 2000 ltr. - 30 t/h



Design pressure : 6 barg
 Design temperature : 65 °C
 Construction material : Stainless steel 304/316



Technical data

Description	45 ltr.	75 ltr.	100 ltr.	185 ltr.	300 ltr.	700 ltr.	1000 ltr.	2000 ltr.
A Height total	1220	1360	1460	1640	1970	2360	2580	3210
B Inlet diameter / Butterfly valve	Ø 250	Ø 250	Ø 300	Ø 300	Ø 350	Ø 350	Ø 400	Ø 400
C Diameter	Ø 500	Ø 600	Ø 650	Ø 800	Ø 1000	Ø 1250	Ø 1500	Ø 1800
D Pressure connection	3/4"	3/4"	1"	1"	1 1/2"	1 1/2"	2"	2"
E Support	40x40	40x40	50x50	50x50	60x60	60x60	80x80	80x80

All dimensions are approximate

TBMA aims to find a solution for your specific bulk handling problems, no matter what the application demands. Expertise in the application of equipment with proven reliability in practice provides you with the guarantee of high performance. TBMA can offer you a complete test facility where your product can be tested in combination with the proposed equipment. A good advice regarding the right choice of equipment for your specific application together with extensive technical information is available on request.

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