

Dense Phase Pulse-Pneuconveyor

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 granule. 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.

By pressurising the vessel a product plug will be forced to slide slowly through the conveying line. After a few seconds the pressure will be switched to a pulsation system, placed just after the outlet of the vessel. This introduces air in the system and interrupts and divides the endless product plug into small plugs, resulting in a lower resistance of the product column.

The inlet valve, being the only moving part, makes the Pulse-Pneuconveyor suitable for conveying abrasive products and products where no segregation or degradation is allowed.

Due to the dense phase conveying principle the pressure in the system will be higher than in a dilute phase conveying 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 system is suitable for the conveying of easy flowing or fluidisable products as well as for many cohesive products.

Outlet

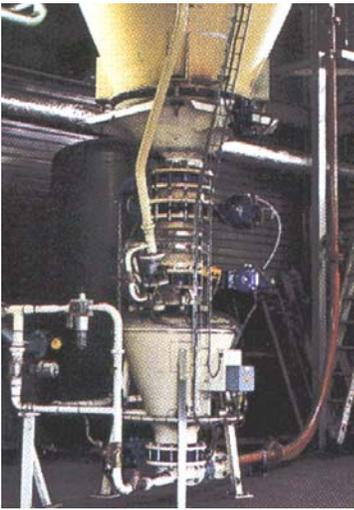
The system will be executed with a standard 90° outlet bend or with a special designed valve in the outlet. This valve controls the product air ratio in order to optimise the conveying process. Another important benefit is the fluidising effect created by the turbulence of this special valve as the compressed air passes under it.



Benefits:

- Low velocities
- Little segregation and degradation
- Smaller piping diameter
- Low air consumption
- Low investments
- Conveying abrasive products, low wear
- Conveying fragile products
- Little maintenance
- No moving or rotating parts

Pulse-Pneuconveyor combined with Big-Bag discharge system



**Pneumatic conveying of Foundry sand with Pulse-Pneconveyors.
Volume : 185, 300 and 1500 litres**

Handled Products

Polyester	Potato starch	PTA powder
Cement	Charcoal	Radimix flakes
Plastic Pellets	Enamel powder	Quartz flour
Catalyst	Pulverised coal	Benton powder
Talc powder	PET granular	Quartz sand
DPP	China clay	Marble
Foundry sand	Fly ash	Silica

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.

All rights reserved. Reproduction or issue to third parties in any form whatever is not permitted without written authority from the proprietors. TBMA reserve the right to make alterations in construction and/or dimensions without further notice. Illustrations and specifications may differ from final execution. Although this information has been compiled with the utmost care, no liability can be assumed for inaccuracies of any kind. © Copyright TBMA – PPC 04-2002



P.O. box, NL-2210 AC
Delfweg 18, NL-2211 VM
Tel.: +31(0)252 37 50 68
E-mail: info@tbma.com

Noordwijkerhout-Holland
Noordwijkerhout-Holland
Fax: +31(0)252 37 54 36
Internet: www.tbma.com