



SCORPIO DENSE PHASE TRANSPORTERS

High Tonnage and Long Distance Conveying

Providing Cutting Edge Technology and Application Engineering Expertise in Bulk Solids Handling Systems

SCORPIO DENSE PHASE TRANSPORTERS (Denseflo Vessels) designed for high tonnage and long distance material transfer are the heart of systems handling material pneumatically in dense phase mode. They consist of a coded pressure vessel with specially designed valves, instrumentation and controls. Manufactured in a range of volumes from 300 litres to 50000 litres for efficiently transporting a wide range of materials in various grades. Valves and instrumentation are fully automatic and controlled by PLC or PC.

Vessels are available in both Mild Steel and Stainless Steel constructions.

The ideal conveying distance can be 300 to 500 mtrs. With an addition of air booster line, material can be conveyed beyond 1000 mtrs.

Features:

- Suitable for difficult, abrasive and friable materials
- Minimal material damage
- Continuous or batch conveying
- Long distance conveying
- Fully enclosed / absence of moving parts
- High pressure / low conveying velocities
- Nil pipeline blockage, ability to restart full pipeline
- Reduced conveying line erosion

Applications:

Dense phase conveying is generally used for high tonnage and long distance conveying (Above 10 TPH and more than 100m) to multiple destinations.

Dense phase conveying is a totally non-suspension flow concept. The material is filled inside a pressure vessel, which is then pressurized with the air or gas to be used for conveying. Once a pre-set pressure is reached inside the vessel, the bottom discharge valve connected to the conveying pipe of the system automatically opens and the material is “pushed” to the destination. Higher material to air loadings is possible in dense phase conveying. The method uses compressed air and not low-pressure air and requires an air compressor, air receiver and air dryer (Where the materials are hygroscopic). Our systems are proven to have the lowest air consumption per tonne of material conveyed. This is because of our unique “twin-pulse” air knife system that dramatically reduces conveying pressure drop.



Dense Phase Transporters

SCORPIO offers state-of-the-art equipment and complete turnkey systems in:

- In-plant Bulk Handling
- Dense & Dilute Phase Pneumatic Conveying Systems
- Open Truck Unloaders
- Container Tilting Unit for filling and discharge
- Bag Slitting Machines
- FIBC (Big Bag) Filling and Discharge Systems
- Bulk Transportation
- Central Vacuum Cleaning Systems
- Weighing and Batching
- Silos and Silo Discharge
- Port Bulk Handling
- Ship Loading / Unloading Systems (Pneumatic)

We also offer consultancy in the design and engineering of Bulk Solids Handling System.

For further information, please contact

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