

One Source

MaxiDense™ dense phase conveying system



Produce the most efficient conveying possible by maximizing the time spent at the design pressure of your convey system.



It's named MaxiDense™ dense phase for a reason...

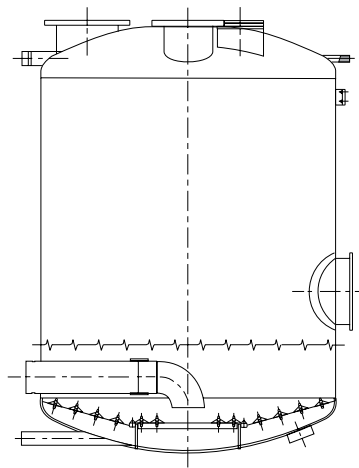
We call it MaxiDense dense phase tank conveying technology for a very good reason: it maximizes the time spent at the design pressure of the convey system, producing the most efficient conveying possible.

First, the unique tank design has a fully fluidized bottom using Fullerator™ aeration elements that promote smooth flow of material from the vessel. Further, the upward flow, side discharge design assists in controlling material flow into the convey pipeline, working in conjunction with the other process controls of the system.

The MaxiDense technology utilizes a staged bypass to allow small increments of air to enter the convey line downstream of the tanks. Using several valves, a larger portion of convey air is bypassed at the beginning of the convey cycle when material more readily exits the tank. As the tank empties, more air is routed to the tanks to aid in tank cleanout. The staged approach is far more efficient in charging the convey line with the proper amount of material than a single valve bypass. This means that the optimum material to air mixture enters the convey line to maintain design pressure throughout the convey cycle. That translates to the most efficient means of tank conveying possible.

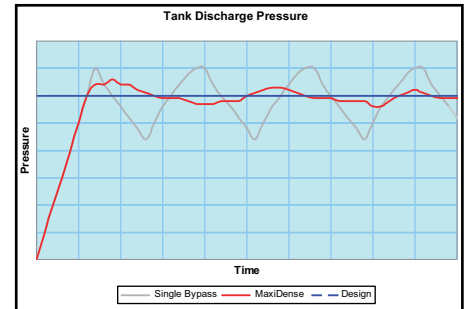
Features and benefits

- Designed to be the most efficient dense phase conveying technology for long-distance, high-capacity applications
- Optimum material flow control maximizes overall system efficiency by utilizing more of the available compressor capability
- Low velocity, precisely controlled conveying is suitable for process injection of abrasive materials
- Stable and smooth process injection



Fullerator High Flow Aeration / Vibration Pad

The Fullerator aeration pad solves even the most difficult material flow problems by combining aeration with vibration. The rubber pad creates an aggressive vibration on the vessel wall as the result of airflow. Vibration is very effective to enhance flow for dry bulk materials.



MaxiDense™ system efficiency



Fluidized bottom using Fullerator aeration/vibration pad



Detail of Fullerator™ aeration/vibration pad

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