



PNEUMATIC CONVEYING SYSTEMS

DUST PUMP Series CONVEYOR



OVERVIEW

The Dust Pump Series is a high capacity, gravity loaded, semi-dense phase conveyor with a range of capacities up to 3 TPH. It is suited for powder, pellets or granular materials.

Medium pressure blower air is used to pressure convey material air at intermediate line velocities and higher material-to-air ratios for less abrasive wear and particle degradation than dilute phase systems.

APPLICATION

- Dust collection
- Dust transfer

MATERIALS / CHARACTERISTICS

- Powder materials
- Ideal for abrasive materials

CAPACITY

- Up to 3 TPH

BENEFITS AND FEATURES

- Semi-dense conveyor uses medium pressure blower air to convey material at intermediate line velocities and high material-to-air ratios for low abrasive line wear
- Excellent replacement for worn out rotary valves in abrasive material applications
- Less operator supervision via automated controls

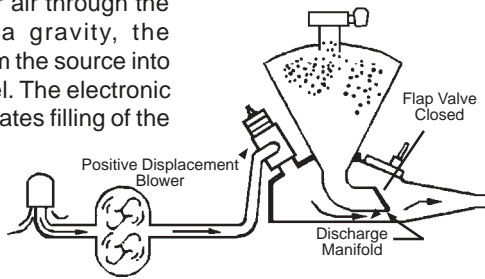
REQUIREMENTS

- 110 VAC, 50-60 Hz, 12 VDC
- 15 PSIG convey air, 90-100 PSIG control air @ 3-5 scfm

GF CONVEYOR

GRAVITY LOAD CYCLE

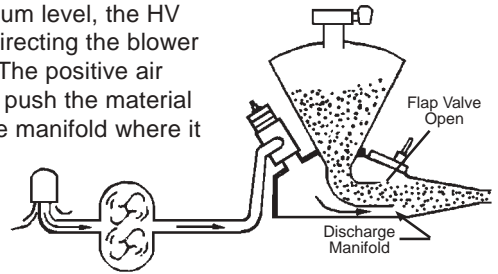
As the load cycle begins, the valve directs the blower air through the convey line. Via gravity, the material flows from the source into the transfer vessel. The electronic level control regulates filling of the transfer vessel to optimum levels during the load cycle. However, a backup solid-state timer takes over



operation in the event material flow is interrupted.

PRESSURE DISCHARGE CYCLE

When the transfer vessel has been filled to the optimum level, the HV valve switches, directing the blower air into the tank. The positive air supply is used to push the material into the discharge manifold where it is fluidized for semi-dense conveying—thus minimizing particle degradation, reducing line wear and increasing system efficiency.

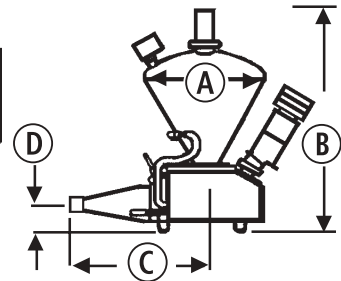


Consult factory for larger tank sizes available

PRODUCT SPECIFICATIONS

MODEL NUMBER	VOLUME CU.FT.	A	B	C	D	AIR INLET	MATERIAL INLET	DISCHARGE	APPROX WT
DP-3	3	30	49	42	7	6	5	4, 5, 6	900

NOTE: Dimensional data for reference only. Subject to change without notice. All weights are in pounds, all dimensional units are in inches, unless noted. Air inlet, material inlet, and discharge may vary per application. Series with connection type dimensions based on MNPT outlet.



SEMI-DENSE PHASE TRANSFER

