



DPG-T Series CONVEYOR



OVERVIEW

The DPG-T Series is a gravity loaded, top discharge dense phase conveyor with a capacity rated to 400+ TPH. It is best suited for fluidizable materials.

This unit provides the high material-to-air ratios and low line velocities resulting in smaller line sizes, lower air consumption, reduced dust collection and lower energy costs. Abrasive wear and particle degradation are also minimized with the DPG-T.

These factors translate to lower capital investment and lower operating costs.

Programmable logic controls (PLCs) offer reduced supervision for automated operation.

APPLICATIONS

- In-plant transfer / Scaling / Batching
- Top gravity loading and discharge
- High material-to-air ratios and intermediate convey line velocities for maximum rate
- Long distance conveying

MATERIALS / CHARACTERISTICS

- Fluidizable powders, including abrasive materials

CAPACITY

- 400+ TPH

BENEFITS AND FEATURES

- Dense phase conveyor uses high pressure air to convey at intermediate line velocities (<2500 fpm) and higher material-to-air ratios (135-140) for less abrasive line wear and less friable/fragile product degradation
- Top gravity load and discharge for high rates
- Less operator supervision via automated controls
- Specify:
 - Carbon steel, stainless steel or epoxy coated
 - Dual stacked inlet valves
 - Load cells

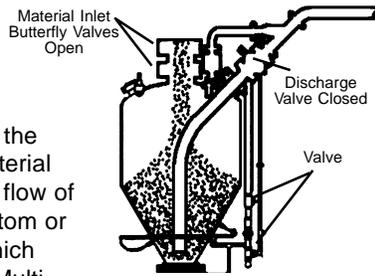
REQUIREMENTS

- 110 VAC, 50-60 Hz
- 20-80 PSIG convey air: 80-100 PSIG control air @ 5-10 SCFM

DPG-T CONVEYOR

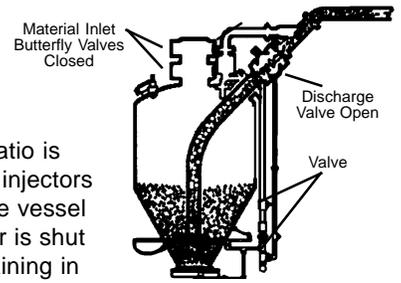
LOAD CYCLE

The dual inlet valves open, allowing material to flow by gravity into the tank. The purge valve opens, venting displaced air down the convey line. When the vessel is filled the top or material valve closes first to stop the flow of material. This allows the bottom or seal valve to close clean, which reduces wear on the valve. Multi-point operation then pressurizes the tank to the discharge set point.



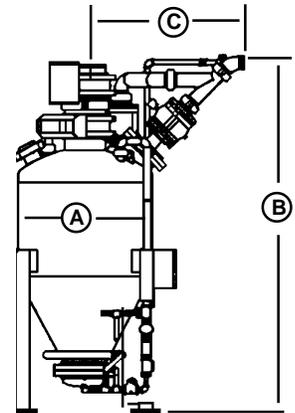
DISCHARGE CYCLE

When the discharge set point is reached, the discharge valve opens, allowing the material to enter into the convey line. Since the air-to-material ratio is regulated in the tank, line injectors are not required. When the vessel is empty, the conveying air is shut off and the pressure remaining in the tank clears the remaining slug of material from the convey line.



PRODUCT SPECIFICATIONS

MODEL NUMBER	VOLUME SQ.FT.	A	B	C	AIR INLET	MATERIAL INLET	DISCHARGE	APPROX. WEIGHT
DPG-5T	5	24	60	39	1½	6	3	475
DPG-10T	10	30	71	41	1½	8	3	750
DPG-25T	25	36	97	42	1½	10	4	1250
DPG-50T	50	48	108	53	1½	10	6	2250
DPG-75T	75	60	123	58	2	12	6	2800
DPG-100T	100	60	143	68	2	12	6	3750
DPG-150T	150	72	145	69	2	14	8	5250
DPG-200T	200	72	180	77	3	14	8	5900
DPG-300T	300	84	202	98	4	16	10	7350
DPG-400T	400	96	209	102	6	16	10	10750



NOTE: Dimensional data for reference only. Subject to change without notice. All weights are in pounds, all dimensional units are in inches, unless noted.

DENSE PHASE TRANSFER

