



POWDRPUMP™ DENSE PHASE CONVEYOR

AEC's PowdrPump conveyor is a low-velocity, pneumatic conveying system designed to move a wide variety of difficult powdered materials cleanly and efficiently, with minimal degradation and separation. They can convey up to 200 equivalent feet.

The PowdrPump operates on very low volumes of compressed air at supply pressures of 60-80 psig. Conveying air pressures vary between 25-80 psig, depending upon the conveying characteristics of particular powders.

Four easy-to-operate times control the conveying rate by varying the time for material filling and unloading of the pressurizing chamber.



PowdrPump

STANDARD FEATURES

- Epoxy-coated, mild steel construction
- Minimal moving parts
- No lubrication or special tools required for maintenance
- Small conveying air requirement makes it economically feasible to use inert gas in hygroscopic and explosive material applications
- Low conveying air velocity creates minimal dusting of conveyed powders and eliminates material degradation
- Slugs of materials are conveyed rather than individual particles, so mixes are kept intact
- Pressurizing chamber
- Pneumatic valve activating cylinder with material valve
- Air distribution assembly
- AEC "Warm Gray" paint
- NEMA 12 solid-state control panel including: Mitsubishi programmable-relay controller, with indicating lights and on/off switch
- 115/1/50-60 or 230/1/60 supply voltage – specify with order

OPTIONAL FEATURES

- 304 stainless steel with 2B finish
- Storage bin
- Fluidizing pads (2) including regulator, piping, and tubing: steel or stainless steel
- Explosion-proof construction
- NEMA 4 electrical panel and solenoids
- Polished interior surfaces for sanitary applications
- 10 cu. ft. bag dump station with 19" x 40" opening, removable bag break rack at 36" work height, 16" square discharge flange with 26' clearance, steel or stainless steel. Optional dust collection system includes 1.5 HP dust collector, 460/3/60, and NEMA 12 control enclosure

SPECIFICATIONS

Model	Max. Capacity, cu.ft./hr	Take-off assembly size	Length, in.	Width, in.	Height, in.	Air consumption, SCFM @ 80 PSI	Shipping Weight, lbs.
Model 31	50	1" Sch. 40	25	17	21	20	75
Model 32	200	2" Sch. 40	25	17	21	35	100

CONVEYING PIPE: BLACK (STEEL)

Line Size (Sch. 40)	Type	Degrees	Shipping Weight, lbs.	Part Number
1"	Straight (plain ends) - 20 ft	-	2	W00005294
1"	Bends -12" radius	30	8	W00017383
1"	Bends -12" radius	45	8	W00017381
1"	Bends -12" radius	60	8	W00017430
1"	Bends -12" radius	90	8	W00016766
2"	Straight (plain ends) - 20 ft	-	4	W00005297
2"	Bends -12" radius	30	18	W00017384
2"	Bends -12" radius	45	18	W00017382
2"	Bends -12" radius	60	18	W00017431
2"	Bends -12" radius	90	18	W00016768

CONVEYING PIPE: ALUMINUM (6063 T6)

Line Size (Sch. 40)	Type	Degrees	Shipping Weight, lbs.
1"	Straight (plain ends) - 20 ft	-	12
1"	Bends -12" radius	30	2
1"	Bends -12" radius	45	2
1"	Bends -12" radius	60	2
1"	Bends -12" radius	90	2
2"	Straight (plain ends) - 20 ft	-	26
2"	Bends -12" radius	30	2
2"	Bends -12" radius	45	2
2"	Bends -12" radius	60	2
2"	Bends -12" radius	90	2

CONVEYING PIPE: 304 STAINLESS STEEL

Line Size (Sch. 40)	Type	Degrees	Shipping Weight, lbs.	Part Number
1"	Straight (plain ends) - 20 ft	-	2	W00016745
1"	Bends -12" radius	30	8	W00017358
1"	Bends -12" radius	45	8	W00017335
1"	Bends -12" radius	60	8	W00017407
1"	Bends -12" radius	90	8	W00016766
2"	Straight (plain ends) - 20 ft	-	4	W00016746
2"	Bends -12" radius	30	18	W00017364
2"	Bends -12" radius	45	18	W00017341
2"	Bends -12" radius	60	18	W00017413
2"	Bends -12" radius	90	18	W00016768

Line Size (Sch. 40)	Shipping Weight, lbs.	Part Number
1"	2	W00016747
2"	3	W00016748