

SPP SERIES

Dense Phase Conveyor

EFFICIENT, COMPRESSED AIR POWDER CONVEYOR

Sterling's SPP Series conveyor is a lowvelocity, pneumatic conveying system designed to move a wide variety of difficult powdered materials cleanly and efficiently with a minimal degradation and separation. They can convey up to 200 equivalent feet. The SPP 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 pressuring chamber.



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 in tact
- Pressurizing chamber
- Pneumatic valve activating cylinder with material valve
- Air distribution assembly
- Sterling Warm Gray paint
- NEMA 12 solid-state control panel including a Mitsubishi programmable-relay controller, indicating Lights and On/Off switch
- 115/1/50-60 or 230/1/60 supply voltage specify with ordering

Options

- 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 hop dust collector, 460/3/60, and NEMA 12 control enclosure

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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

PIPE COUPLERS: COMPRESSION TYPE

Line Size (Sch. 10)	Shipping Weight, lbs.	Part Number
1"	2	W00016747
2"	3	W00016748