

Application

The Aeropass™ Valve is a diverter valve typically used when batches of material are delivered from one source to multiple destinations. One Aeropass Valve is mounted on each destination vessel. When one of the destinations calls for material, that Aeropass Valve diverts to the 90 degree position. The material and air are directed into the destination hopper, where they separate; the material stays in the hopper, and the air passes back to the source tank. When the hopper is full, the Aeropass Valve returns to the straight-through position, allowing the material and air to purge to the source tank. Immediate shutoff of material, when the hopper is full, makes the Aeropass Valve ideally suited to applications where the hopper is mounted on a scale.

Design

The Aeropass Valve is designed for pressure conveying applications and has a cast iron rotor with through channel and a deflector plate. The rotor creates a labyrinth seal to minimize air leakage into the hopper. The valve's compact design enables its use in low-clearance areas.

Technical Data

Standard Mechanical Specifications

- Available 2", 3", 4", 5" O.D. tube and pipe sizes
- Cast iron alloy housing and end plates
- Cast iron rotor
- Exterior is primed and finish painted with enamel
- Pneumatic flow position actuator

Standard Electrical Specifications

- Single solenoid air control valve, 24 VDC
- Two SPDT position proof switches
- Pre-wired electrical enclosure with air actuator and limit switches, preset and tested
- IP65, NEMA 4
- CE compliant

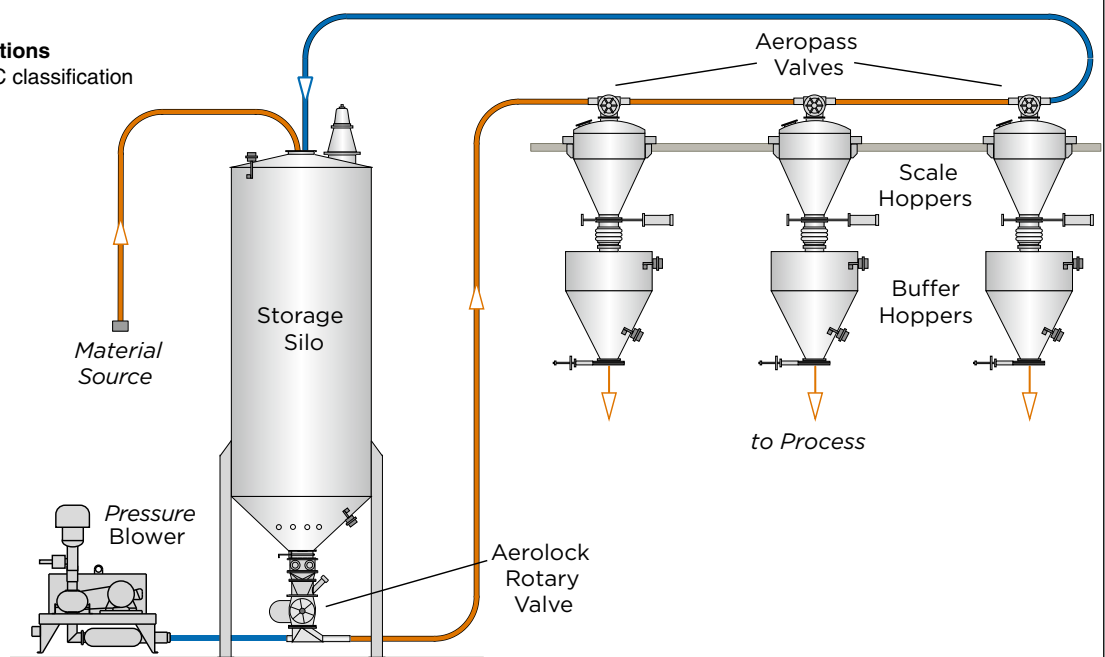
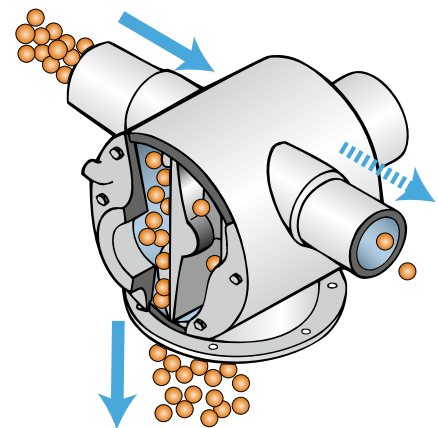
Options

Controls

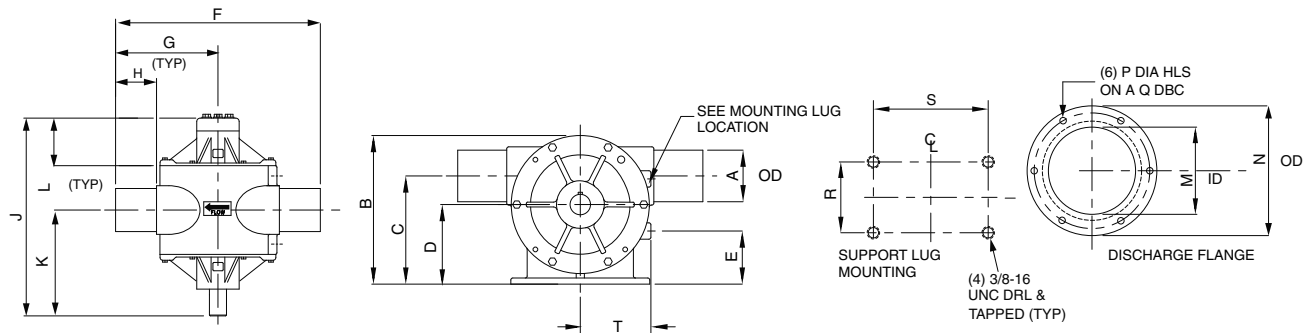
- 120 VAC control

Hazardous Location Options

- Consult factory for NEC classification



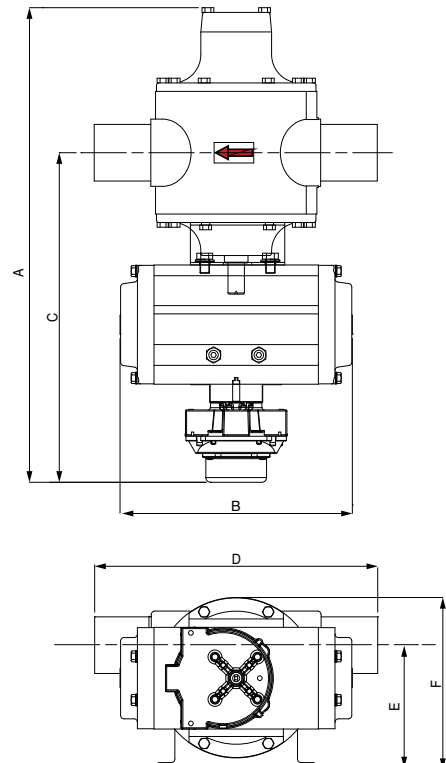
Dimensions of Aeropass Diverter Valve mm [in]



A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
51 [2]	231.6 [9.12]	168.1 [6.62]	124 [4.875]	83 [3.25]	463.6 [18.25]	232 [9.12]	117 [4.62]	378 [14.87]	191 [7.5]	83 [3.25]	152 [6]	216 [8.5]	11 [0.438]	191 [7.5]	76 [3]	127 [5]
76 [3]	231.6 [9.12]	168.1 [6.62]	124 [4.875]	83 [3.25]	381 [15]	191 [7.5]	76 [3]	378 [14.87]	191 [7.5]	83 [3.25]	152 [6]	216 [8.5]	11 [0.438]	191 [7.5]	76 [3]	127 [5]
89 [3.5]	231.6 [9.12]	168.1 [6.62]	124 [4.875]	83 [3.25]	406.4 [16]	203 [8]	89 [3.5]	378 [14.87]	191 [7.5]	83 [3.25]	152 [6]	216 [8.5]	11 [0.438]	191 [7.5]	76 [3]	127 [5]
102 [4]	358.8 [14.125]	260.4 [10.25]	191 [7.5]	127 [5]	650.2 [25.6]	327 [12.87]	140 [5.5]	486 [19.12]	244 [9.62]	135 [5.31]	254 [10]	330 [13]	11 [0.438]	305 [12]	127 [5]	229 [9]
114 [4.5]	358.8 [14.125]	260.4 [10.25]	191 [7.5]	127 [5]	628.7 [24.75]	314 [12.37]	127 [5]	486 [19.12]	244 [9.62]	135 [5.31]	254 [10]	330 [13]	11 [0.438]	305 [12]	127 [5]	229 [9]
127 [5]	358.8 [14.125]	260.4 [10.25]	191 [7.5]	127 [5]	577.9 [22.75]	289 [11.37]	102 [4]	486 [19.12]	244 [9.62]	135 [5.31]	254 [10]	330 [13]	11 [0.438]	305 [12]	127 [5]	229 [9]
141 [5.56]	358.8 [14.125]	260.4 [10.25]	191 [7.5]	127 [5]	603.3 [23.75]	301 [11.87]	114 [4.5]	486 [19.12]	244 [9.62]	135 [5.31]	254 [10]	330 [13]	11 [0.438]	305 [12]	127 [5]	229 [9]

Dimensions of Aeropass Diverter Valve with Actuator mm [in]

Part No.	Size	A	B	C	D	E	F
5119-185	2 O.D.	638.9 [25.154]	312.7 [12.311]	443.7 [17.467]	463.6 [18.25]	168.1 [6.62]	231.6 [9.12]
5119-186	3 O.D.	638.9 [25.154]	312.7 [12.311]	443.7 [17.467]	381 [15]	168.1 [6.62]	231.6 [9.12]
5119-187	3 Pipe	638.9 [25.154]	312.7 [12.311]	443.7 [17.467]	406.4 [16]	168.1 [6.62]	231.6 [9.12]
5119-188	4 O.D.	751.1 [29.572]	312.7 [12.311]	496.6 [19.55]	650.2 [25.6]	260.4 [10.25]	358.8 [14.125]
5119-189	4 Pipe	751.1 [29.572]	312.7 [12.311]	496.6 [19.55]	628.7 [24.75]	260.4 [10.25]	358.8 [14.125]
5119-190	5 O.D.	751.1 [29.572]	312.7 [12.311]	496.6 [19.55]	577.9 [22.75]	260.4 [10.25]	358.8 [14.125]
5119-191	5 Pipe	751.1 [29.572]	312.7 [12.311]	496.6 [19.55]	603.3 [23.75]	260.4 [10.25]	358.8 [14.125]



Caution: Measurements are for general reference only. Please consult dimensional drawing for exact measurements.