

Isolate Receivers in Common Material Line Systems

Externally mounted Line Valves effectively stop the flow of material to vacuum receivers for trouble-free operation of common or single material line conveying systems.

At rest, the inlet is closed, allowing the valve to isolate the receiver from the common material line of central systems. When the vacuum sequence valve opens, the line valve allows material to fill the receiver.



Model CV-1

Positive Shut-Off and Smooth Flow

Unlike competitive internal flappers that rely upon the system's vacuum to close, Conair Line Valves utilize a reliable compressed air piston to shut off material flow. And mounted external to the loader, Line Valves can never fall off, and can never contaminate or jam the receiver's flow of material.

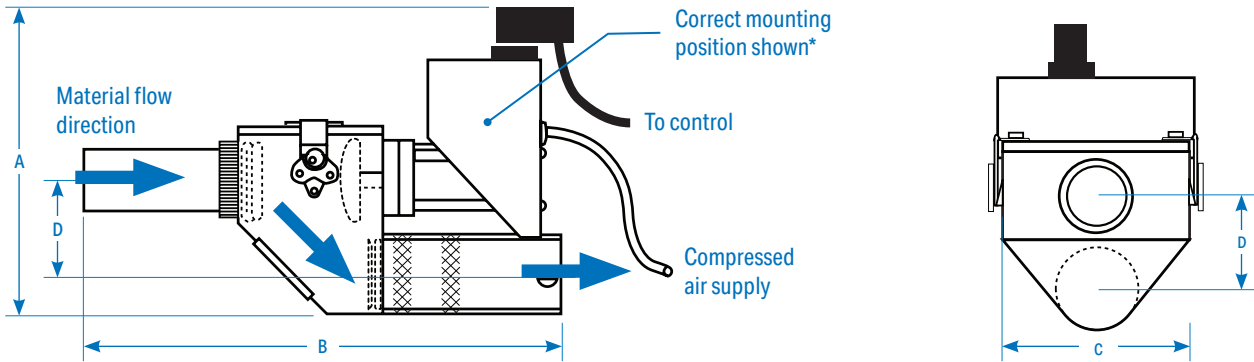
The valve operates in unison with the loader's vacuum sequencing valve to effectively start and stop material flow.

Standard valves have an aluminum inlet and outlet for use with materials up to 225°F {107°C}.

An optional high performance version is also available. It is optimized for use with high temperature materials, those exceeding 225°F {107°C}, and for highly abrasive material including glass-filled resins and sharp regrind.

- **Modular design**
Screw-in components allow common wear parts to be easily replaced and line sizes to be changed without the need of purchasing another valve on models CV-1 and CV-2.
- **Smooth aluminum body**
A non-corrosive, smooth path for material flow.
- **Easy to clean**
Removable with no tools, the lid provides wide open access.
- **High performance option**
The optional high performance valve is optimized for use with high temperature and/or highly abrasive materials.

Specifications



Model	CV-1	CV-2	CV-3	CV-4
Performance characteristics				
Line size diameter inches	1.5 - 2	2.25 - 2.5	3	2
Type of inlet/outlet connection	screw-in		welded	
Body type aluminum	cast		fabricated	
Dimensions inches [mm]				
A - Overall height	9.0 [229]	9.75 [248]	11.0 [279]	12.0 [305]
B - Length	12.5 [318]	13.0 [330]	13.875 [352]	
C - Width	4.5 [114]	5.5 [140]	7.0 [178]	
D - Inlet/outlet offset height	2.75 [70]		3.438 [87]	3.875 [98]
Approximate weight lb {kg}				
Installed	7 {3}	9 {4}	11 {5}	
Shipping	9 {4}	11 {5}	13 {6}	14 {6}
Voltage Full load amps †				
120V/1 phase/60 Hz			0.25	
24V/1 phase/50 or 60 Hz			1.0	
Compressed air requirement				
Air consumption 0.2 ft³/min.	@ 80 psi {0.09 liters/sec @ 5.5 bars}			
Hose requirement	1/4 inch hose fitting			

Specification Notes

* Do not mount valve in a vertical position.

† FLA data for reference purposes only. Does not include any options or accessories on equipment. For full FLA detail for power circuit design of specific machines and systems, refer to the electrical diagrams of the equipment order and the nameplate applied to the machine.

Specifications may change without notice. Consult with a Conair representative for the most current information.

Options

High performance

The high performance Common Line Valve has a stainless steel inlet and outlet, includes a high temperature Viton seal in the pneumatic cylinder and a specially plated and heat-treated valve body, lid and plunger for maximum wear-resistance.

The high performance valve is optimized for use with high temperature materials, those exceeding 225°F {107°C}, and for highly abrasive materials including glass-filled resins and sharp regrind.

Vacuum valve operation

Although specifically designed to handle the flow of material, Common Line Valves may also be used for controlling air flow, to shut off the flow of vacuum air to receivers, or operate in response to vacuum control systems for pumps.

