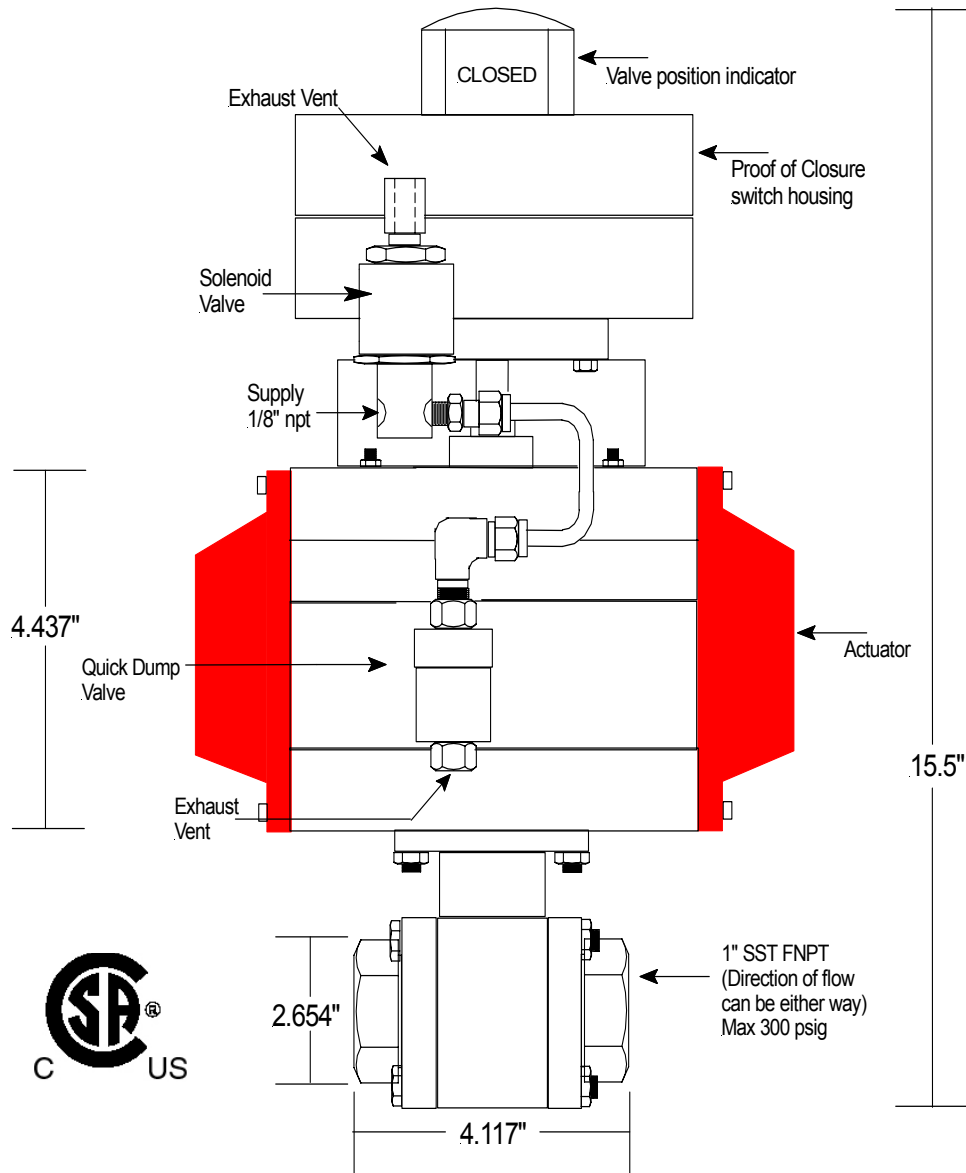


ACL

Manufacturing Inc.

ACL-ASSV Safety Shutdown Valve w/ Proof of Closure



Valve Specifications

Operating Temperature: -40C to +65C
Control Pressure: 60 psig-120 psig
Voltage: 12 vdc, 24 vdc or 120 vac
Power: .85 watts & 1.8 watts
Valve Pressure: Maximum 300 psig
Explosion proof Class 1 Div 1

Certifications

ANSI Z21.21-2000
ANSI/UL Standard 1002
CSA Class 1 Div 1
CSA 6.5-2000 C/1

Installation Instructions

ACL-ASSV-XX-XXX

Automatic Safety Shut-Off Valve

The ACL Pneumatic Shut-Off valve comes completely assembled with valve, actuator, quick dump valve, solenoid valve and limit switch (optional) The complete unit is tested to factory standards before shipment. Any disassembly of components will null & void factory warranty and CSA certifications. The valve must be installed in its fully assembled state from the factory.

Valve Installation

The valve can be installed in any position on the pipeline. Before installation of the valves, the pipe must be flushed clean of dirt, burrs and welding residues that may damage the seats and ball surface. The pipe must be free of tension. Use a conventional sealant, such as hemp core, Teflon, etc., on the threads. Apply wrench only on the hexagon of the valve ends. Tightening by using the valve body or lever can seriously damage the valve. The maximum process pressure must not exceed 300 psig.

Air Supply

Pneumatic piping to the solenoid should follow the best practices for instrument pneumatic piping systems, i.e. line free of water, oil, pipe sealant or other contaminants. The operating media is to be filtered dry air or inert gas which is filtered to 400 micron particle size or less. It is extremely important that the solenoid be powered with the proper air pressure and air volume. Maximum working pressure is 120 psig and minimum is 60 psig. **NOTE:** For valves that are rated for -40C, it is extremely important that clean dry air be used to operate the valve.

Electrical Connections

The ACL Shut-off Valve comes in either 12 vdc, 24 vdc or 120 vac operating voltages.

Wiring as follows for non proof of closure valve

Solenoids Only

| 120 VAC | 24 VDC | 12 VDC |
|-------------------------|-------------------------|-------------------------|
| Black – Hot 120 VAC | Black – Positive 24 VDC | Red – Positive 12 VDC |
| Black – Neutral 120 VAC | Black – Negative 24 VDC | Black – Negative 12 VDC |
| Green – Ground | Green – Ground | Green - Ground |

Wiring as follows for proof of closure valve

