

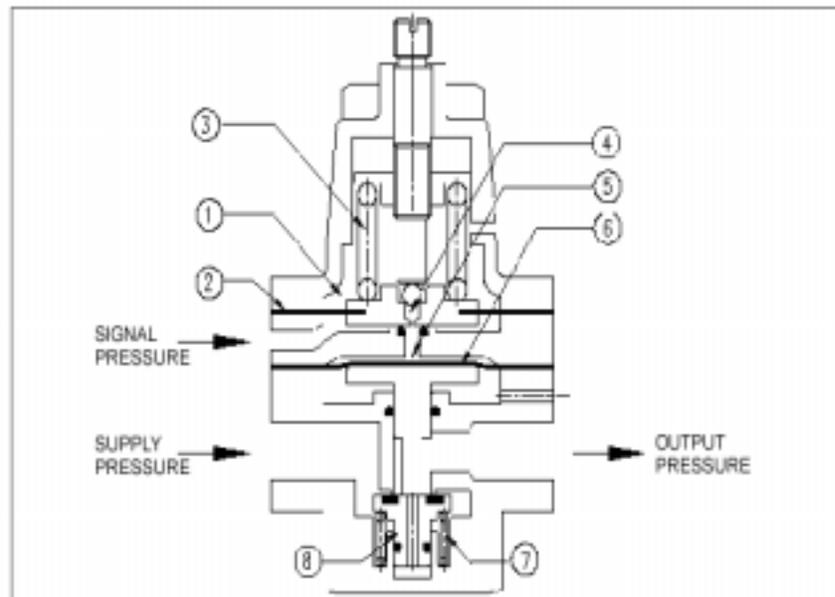
Introduction:

The Triac Controls LV-1 Lock-up Valve is an excellent choice for all fail-in-place applications when air supply drops below acceptable pressure. The LV-1 can be utilized to maintain valve or damper position when properly connected to Triac Pneumatic Actuators.

**Operation:**

When Signal pressure acting on the upper diaphragm (1) overcomes the force of the preset spring (3). The signal pressure pushes the diaphragm upward and shuts off the exhaust port (4) and permits the signal pressure to flow into the lower diaphragm chamber (5). The signal pressure presses the spring (7) and opens the valve (8), this connects the inlet and outlet ports. When the signal pressure drops below the set point, the diaphragm (2) moves downward releasing the signal pressure from the lower diaphragm (5).

Therefore the lock-up valve block the inlet and outlet ports



Set Point Adjustment

1. The set point is when the lock-up valve shifts from allowing supply pressure through the ports to closing the ports. The set point is adjustable from 20 to 100 PSIG. The lock-up valve will allow supply pressure through the ports when the signal pressure is at or above the set point.
2. The set point can be adjusted by loosening the lock nut on the adjust bolt. When the adjust bolt is turned clockwise this will increase the set point. When the adjust bolt is turned counter clockwise this will decrease the set point.
3. Once the set point is set to desired pressure, tighten the lock nut.

Specification

Signal Pressure	MAX. 145 PSIG
Pressure Range	20-100 PSIG
Lock-up Pressure	MAX. 100 PSIG
Effective Area	17mm ²
Ambient Temperature	-4 Deg F - 158 Deg F
Differential	Below 1.5 PSIG
Air Connection	¼" NPT
Weight	1.1 lbs

Dimensions (Inches)

No.	Part Name	Material	Qty.
1	Plug	C36048D	1
2	Body	ADC12	1
3	Ring	ADC12	1
4	Diaphragm	N.B.R.	2
5	Cover	ADC12	1
6	Bracket Nut	C36048D	1
7	Adjust Bolt	SST304	1

