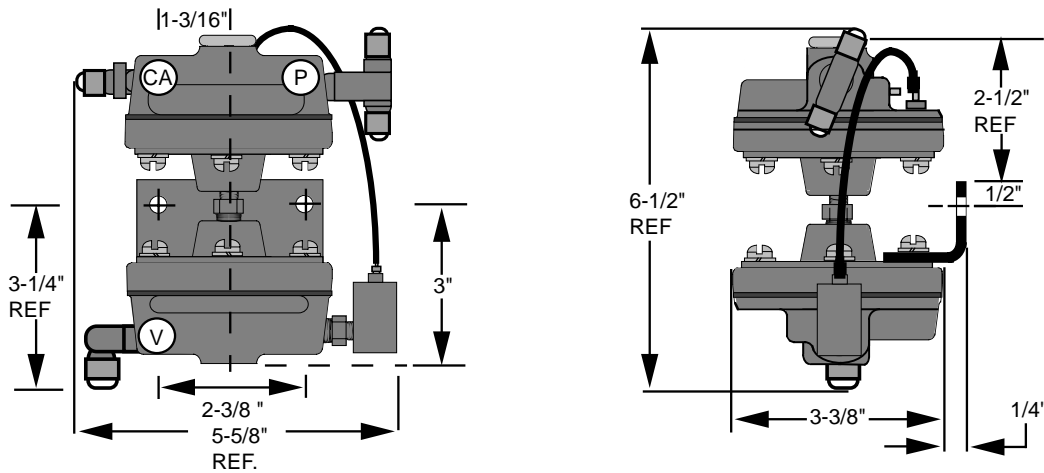


KSLC-90 PNEUMATIC SENSOR LEVEL CONTROL



**A. SENSOR CONTROL INSTALLATION**

Select a mounting location as close to the tank diaphragm sensor as possible. Total distance between the diaphragm sensor and control should generally not exceed 15 feet.

Sensor control should be rigidly mounted, readily accessible and protected from shock or vibration. If possible avoid areas where freezing temperatures may be encountered.

1. Sensor control should be mounted in a vertical position. (as shown)
2. Mounting dimensions are shown on the left. Reference dimensions are maximum.

**B. TUBING CONNECTIONS**

Sensor Control is furnished with 1/4" NPT connections or 1/4" tube fittings (as specified at time of order).

1. Connect tubing from the "P" (purge) connection at diaphragm sensor at tank to one side of "P" port of the Sensor Control
2. Connect tubing from "V" (vent) connection at diaphragm sensor to the "V" port of the Sensor Control
3. 1/4" O.D. poly tubing is typically used to route pneumatic output signal to the K Systems Indicator. Connect indicator signal tubing to the other side of the "P" port of the Sensor Control.
4. If required, install plug in "S" connection at diaphragm sensor.

**C. COMPRESSED AIR REQUIREMENTS**

Compressed air supply must be clean, dry and oil-free. An instrument grade air filter with automatic drain should be installed in main supply line upstream of takeoffs to individual Sensor Controls.

If the control is to be mounted where freezing temperatures may be encountered, the compressed air supply must be adequately dry to prevent condensation and freezing of the control. Use an instrument grade compressed air dryer in such instances.

**CAUTION:** Failure to use adequately filtered compressed air will result in unsatisfactory performance and may void warranty!

1. Compressed air supply pressure must be at least 35 PSIG or 10 PSIG greater than the maximum anticipated tank liquid head pressure

MINIMUM PRESSURE: 35 PSIG  
MAXIMUM PRESSURE: 100 PSIG

2. Connect the compressed air supply to the "CA" port of the Sensor Control.

NOTE: It may be desirable to install a shut-off valve prior to the Sensor Control "CA" connection.