Valv-Trol Pressure Controllers are non-electrical pneumatic devices used to modulate control valves (usually diaphragm actuated valves). They are the key components in closed loop control systems that monitor system pressure, compare to a set point and signal a control valve to move in response. Since this cycle is continuous, the result is a steady system pressure. These controllers offer the advantage of safe, reliable system control, and remarkable low price.

Two models are available with three system pressure ranges. The Model C-0162 is for use with **normally open (direct acting)** control valves. The Model C-0164 is for use with **normally closed (reverse acting)** control valves. Each has an output signal of zero to 35 PSI air. Both of these controls are widely used with Valv-Trol Diaphragm Valves to control the pressure (therefore the temperature) of steam heated components, such as platens, rollers, and vulcanizers. Accuracies of ±1 PSI are common on such systems.

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Process PSI</th>
<th>Control Pressure PSI</th>
<th>Use With</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-0162</td>
<td>Direct Acting</td>
<td>30-500</td>
<td>0-35</td>
<td>Direct Acting/ Normally Open Valves</td>
</tr>
<tr>
<td>C-0164</td>
<td>Reverse Acting</td>
<td>30-500</td>
<td>0-35</td>
<td>Reverse Acting/ Normally Closed Valves</td>
</tr>
</tbody>
</table>

The following operating ranges are available:
- 1.0—100 PSI
- 1.5—150 PSI
- 3.0—300 PSI

Sensing elements and pressure gauges should be chosen so that the desired set pressures are about in the middle of the total operating range.
STEAM CIRCUIT USING C-0162 D.A. CONTROLLER WITH A VALV-TROL DIRECT ACTING (N.O.) CONTROL VALVE

As pressure rises above set point, controller signals valve to actuate or close.

System continues to heat on loss of control circuit.

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STEAM CIRCUIT USING C-0164 R.A. CONTROLLER WITH A VALV-TROL REVERSE ACTING (N.C.) CONTROL VALVE

As pressure rises above set point, controller signals valve to de-actuate or close.

System cools on loss of control circuit.