

6 Basic Pneumatic System Components

Regulator

Regulators control output pressure in a system. Pressure in a system of lines acting over a specific amount of distance. These devices are fitted with mechanical components that react to changes in the downstream air pressure. The regulator allows a constant pressure to be maintained across a pressure source as long as the input pressure remains greater than the regulated output pressure. The reading on the regulator control knob indicates the regulated or output pressure.

Note: Always use a

regulator with a pressure gauge to monitor and control the performance of a pneumatic system. Every pneumatic system should have a pressure relief valve to prevent over pressure conditions.

Always always utilize your pneumatic system. The regulator used in the ILS 4000 4000™ has two 1/8" NPT working ports.

Pressure Adjustment Knob

Turning this knob clockwise increases the output pressure by turning the air through the lower the pressure for clockwise and counter clockwise.

Pressure Gauge

0-150 PSI
0-1000 psi

Pneumatic Bracket

Figure 1.1



Regulator Controls Pressure or Force

Speed or Flow Valves

Flow valves control the speed of air flow within one of a pneumatic circuit or component. There is a restriction of the volume of air moving through the valve or component over a period of time (flow or restriction). Flow control is adjusted using the needle valve. Turning the needle valve clockwise increases the flow rate. The higher the flow rate, the faster the component will operate.

Note: Not to regulated air flow directionally, use flow control in the other direction.

The flow (speed) air direction is slow using a large valve contained on the valve. The regulated air flow direction is slow with a small valve. Flow control is best accomplished by regulating the flow of air out of a circuit or component.



Figure 1.2

6 Basic Pneumatic System Components Gears Eds

G Thomas



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