

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 varying pressure source as long as the input pressure remains greater than the output rated 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™ kit has a self-sealing feature.

Pressure Adjustment Knob

Turning this knob allows the user to adjust the output pressure. The pressure is controlled by turning the knob clockwise. Lower the pressure by counterclockwise turns.

Pressure Gauge

0-100 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 handle valve. Turning the handle valve clockwise increases the flow rate. The higher the flow rate, the faster the component will operate.

Note: Not to regulated air use directionally used flow slowly in the other direction.

The flow slowing air direction is done using a large spring contained on the valve. The regulated air flow direction is done with a small spring. 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

ML Yell



6 Basic Pneumatic System Components Gears Eds:

Unveiling the Power of Verbal Art: An Psychological Sojourn through **6 Basic Pneumatic System Components Gears Eds**

In a global inundated with displays and the cacophony of quick conversation, the profound energy and psychological resonance of verbal art usually disappear in to obscurity, eclipsed by the continuous onslaught of sound and distractions. However, set within the musical pages of **6 Basic Pneumatic System Components Gears Eds**, a captivating work of literary beauty that impulses with organic feelings, lies an wonderful journey waiting to be embarked upon. Written by a virtuoso wordsmith, this exciting opus manuals visitors on an emotional odyssey, gently exposing the latent potential and profound influence stuck within the complex internet of language. Within the heart-wrenching expanse with this evocative examination, we shall embark upon an introspective exploration of the book is central subjects, dissect its captivating writing style, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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