

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 to automatically maintain a constant output pressure when 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

Rotary knob for adjusting downstream pressure. It is used to set the output pressure of the regulator. The knob is used to adjust the pressure of the air flowing through the regulator.

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 through one or more ports of a pneumatic system. There is a restriction of the volume of air passing 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 shown using a large arrow contained on the valve. The regulated air flow direction is shown with a small arrow. Flow control is best accomplished by regulating the flow of air out of a control or component.



Figure 1.2

6 Basic Pneumatic System Components Gears Eds

Ensheng Dong



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6 Basic Pneumatic System Components Gears Eds Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**6 Basic Pneumatic System Components Gears Eds**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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