

## China air source treatment-Chinese Pneumatic Technology Development Trend

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With the continuous improvement of production automation, pneumatic technology applications surface rapidly expanding, **Air Source Treatment Units** continued to increase in variety of specifications, **pneumatic component** performance, quality, **solenoids valve** continuously improve, marketing and sales value increased steadily. Pneumatic product development trend was mainly in the following areas:

### 1, miniaturization, integration

The limited space requirements pneumatic components dimensions as small as possible, miniaturization is a major trend of development. Now the smallest cylinder diameter of only  $\phi 2.5$ , and the preparation of switches; solenoid valve width of just 10mm, the effective cross-sectional area of  $5\text{mm}^2$ ; interface,  $\phi 4$  of the valve has also been developed. According to the survey, the demand for miniaturization of components, approximately doubling every 5 years.

The integrated valve is not only a few valves will be installed together, but also include sensors, programmable logic controller and other functions. The purpose of integration is not only save space, but

## 2, combination, intelligent

The simplest combination of components to bring the valve, with a switch cylinder. In the material handling, have been using the cylinder, swing cylinder, pneumatic chuck and vacuum suction of the combination; there is a mobile small items of the combination, is director of the two cylinders with respectively X and Y-axis combinations made, also has solenoid valves, programmable devices, compact structure, small footprint and adjustable stroke.

Japan SEIKI (strain) the development of intelligent valve with sensors and logic circuits, is a combination of pneumatic and photovoltaic technologies. No external actuator, the sensor signals can be directly read by the logic circuit judge to determine the smart valve actuators and follow-up work.

Development of functional modules for more than ten years of history, is now being constantly improved. These generic modules can be of a combination of a variety of programs to achieve the different mechanical functions, economic, practical and convenient.

## 3, precision-oriented

To make a more accurate positioning of the cylinder, using the sensor, proportional valve of feedback control, positioning accuracy up to 0.01mm.

Precision in the cylinder has also developed a 0.3mm / s Low-speed cylinder, and a small load of 0.01N cylinder.

In the gas source processing, filtering accuracy of 0.01mm, filtration efficiency of 99.9999% of filters and sensitivity 0.001MPa reducing valve has been developed.

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