

ARTICLE
27th JULY 2023

Smart Pneumatics for Automation

As digital transformation continues to take the industry by storm, Pneumatics remains a smart choice for automation. The utility nature and overall equipment effectiveness of pneumatic controls and actuators make them vital to a modern industrial control system.

For Pneumatic controls and actuators, energy consumption is minimal, components are durable, and the power delivered is sufficient. They provide an operational and economic benefit that allows plant operators to maintain precision and reliability while minimising costs. In a highly competitive market, this is ideal.

In addition, outfitting innovative technologies within control systems, such as the Industrial Internet of Things (IIoT) and digital controls, are possible. Implementation is incremental, meaning upgrades to newer technologies is possible at small scales and protect the bottom line.

A system using the best pneumatics, digital electric, and electromechanical controls can ensure a mutually beneficial system. There is no need to use one control and actuator type. Instead, a mix of the different options can provide energy efficiency, precision, and data-driven automation as required per application within a control system.

A benefit of Pneumatics in automation is its suitability for harsh environments and element exposure. This suitability is important for digitally unfriendly environments. Pneumatics provide automation capability and accuracy without the sensitivity of digital control systems. The robust nature of pneumatic components and systems enables them to endure severe high temperatures, extreme pressures, and dangerous environmental conditions.

Pneumatic controls and actuators are ideal for repetitive and high-volume applications that require minimal maintenance. Recent improvements mean they have experienced overall quality, reliability, and cost. As more innovations and developments occur across sectors, there will be a continued need for smart Pneumatics for automation.

Contact us today for more information on this topic or how we can help with your control system! Call 1300 422 444 or email sales@triplei.com.au.

About Triple i

Triple i deliver outcomes for all your control, data, electrical, instrument, and mechanical needs with over thirty-five years of experience. We supply a range of technology-based projects, consultancy, maintenance, and support services in the industrial sector. With over seventy-five skilled employees, Triple i provides the best product and services, with integrated solutions designed for clients' needs.

