

Innovation through synergy



Advertorial

*As a specialist manufacturer of products for flow control, pressure control, flow measurement and pressure measurement serving diverse duties and a wide variety of applications, **Rotork Instruments** delivers solutions that are trusted wherever there is a need for high precision and reliability. Renewable energy and cogeneration are two important sectors amongst the industries served by the market-leading companies that make up Rotork Instruments. Synergy between these companies – each with their own specialised expertise – enables Rotork Instruments to present innovative and elegant design solutions to the marketplace.*

Bifold

Bifold, for example, is a widely recognised leader in the design and manufacture of hydraulic and pneumatic stainless steel directional control valves and accessories for hazardous and corrosive environments.

Bifold also has market leading technology in areas that include the development of solenoid valves and associated equipment with ultra-low power requirements.

Within the Bifold Group, Marshalsea Hydraulics, is a leading designer and manufacturer of high quality pumps and valves and provides a range of stainless steel pressure intensifiers for challenging applications. Bifold Orange instruments (formerly part of Orange Instruments Limited) has broad expertise in electronic control and valve positioning for the hazardous area valve and pump sectors.



Bifold is a leading manufacturer of instrument valves and accessories, piping valves and pumps, with specialised expertise in hazardous area equipment and low power technologies.

Fairchild

The Fairchild range of industrial control products offers one of the largest varieties of precision pneumatic and electro-pneumatic control devices available for process and OEM applications. These products are valued by customers for their precise, accurate and advanced capabilities. Regulators, boosters and I/P transducers provide the degree of control that each different application demands, including models which are designed to handle exceptionally high pressure and deliver the greatest flow rates.

Fairchild has recently refined its proven I/P transducer technology to develop new models which exceed recently released government requirements for allowable natural gas emissions.

Rotork Fairchild TXI7850 explosion proof I/P transducers have long been approved for and utilised in natural gas operated instrumentation systems.

The explosion proof evaluation of these units by underwriting agencies such as FM, ATEX and CSA™, using standards covering a constant fuel gas presence, ensures safe and reliable operation in the field with compressed natural gas as the supply medium..

In the USA new government regulations require all pneumatic controllers at the wellhead to have a maximum consumption of 6 SCFH (Standard Cubic Feet per Hour). In Canada and other countries, carbon credits can provide economic incentives to utilise low emission products, so the challenge is to provide controllers which reduce or eliminate these fugitive emissions.

The new Rotork Fairchild TXI7850 series maximum consumption levels are 3.6 SCFH for the 3-15 psi output range unit and 5.5 SCFH for the 6-30 psi range unit. These rates are for natural gas as a media and applicable all the way to the highest pressure in each range (i.e. 15 psi and 30 psi respectively).

The Rotork Fairchild TXI7850 I/P transducer meets new environmental regulations for reduced natural gas emissions.





Rotork Midland has developed high integrity modular pneumatic actuator control assemblies.

Rotork Midland

Rotork Midland is internationally known as a manufacturer of 316 stainless steel control equipment with a reputation for high quality, reliability and innovation. Rotork Midland offers comprehensive solutions for filtration and regulation of compressed air and gases for the valve actuation industries. Using the finest quality stainless steels, Rotork Midland oversees every detail and utilises state of the art quality systems. Rotork Midland products are renowned for their superior leak proof design and high functionality, achieved through attention to detail throughout the process. Whether the application calls for high accuracy or simply rugged duty in extreme conditions, Rotork Midland has a proven track record for reliable field operation and strives to provide innovative solutions to simplify the task of valve control packaging.

Soldo

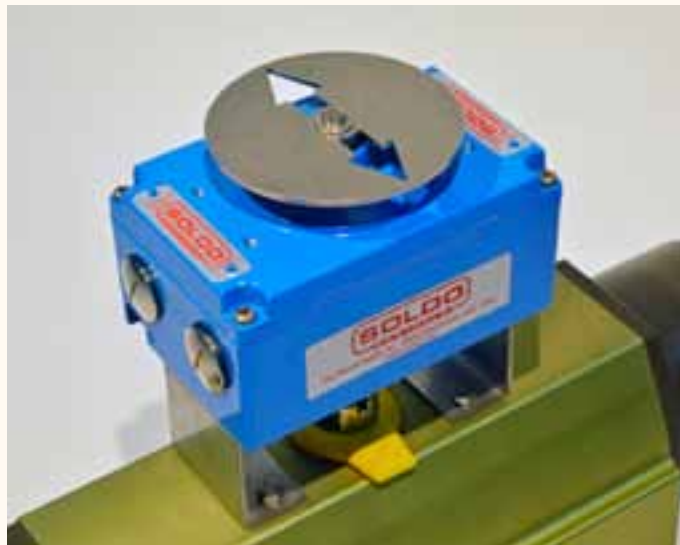
The Soldo range of limit switchboxes, proximity sensors, and accessories offers a variety of options. Soldo specialises in the design and manufacture of control accessories for valve automation, providing high quality products and services that guarantee a link between the control room and automated process valves. Product development programmes ensure Soldo is always ready for new markets and applications and able to meet or exceed customer requirements. Soldo products are valued by customers for their advanced design and capabilities, ranging from cost effective, when price is a concern, to corrosion resistant and explosionproof, when harsh environments are encountered.

Soldo products provide the protection and automation that each application demands. The unique split shaft design allows installation where space is a factor and where a low profile limit switchbox is not preferred. Soldo limit switches also have easy-set 3 degree cams for independent tool free adjustment. Pre-wired PCB switch modules ensure installation

is worry free and allows easy installation and wiring directly into terminal strips. The pre-wired boards are conformal coated for environmental protection. Soldo also offers a full line of mounting brackets for all models that do not come with an integral mounting kit. A recent addition to the Soldo range is a high temperature extension to the LSB range of compact limit switchboxes for valves and dampers. Manufactured with an aluminium or stainless steel enclosure, the new switchbox has been tested for operation in temperatures up to 250°C for 2 hours or 300°C for 70 minutes. High temperature applications include tunnel ventilation dampers, HVAC plant rooms and other building services environments.

Teflon coated stainless steel bushings ensure smooth and low friction shaft rotation, whilst precision end-of-travel switches guarantee normally open (NO) and normally closed (NC) logics. Standard features also include the Soldo twin shaft design, enabling easy access to switches and terminals, and rugged enclosure coatings for challenging environments. Ceramic terminals and special wiring options complete the compact Soldo design.

The range is tested at 250VAC 5A and has a guaranteed mechanical life of one million cycles.



The LSB switchbox for high temperature applications is a recent addition to the Soldo product range.

YTC

The YTC product line includes pneumatic positioners ranging from base level units to sophisticated electro-pneumatic smart positioners. Available in both linear and rotary configurations, these engineered products are built to the highest quality standards to provide dependable long term performance. Aluminium or stainless steel housings are designed for the most challenging environments.

YTC designs utilise rugged torque motor style operation to provide reliability in harsh temperatures and environments. Whether the application calls for highly accurate automation or simply rugged duty in extreme conditions, YTC has numerous positioner alternatives.

Valve monitoring is further facilitated by internal or external options available for any positioner unit. YTC also provides a host of accessory products to meet the specification of complete pneumatic valve systems. As a worldwide supplier, YTC has the track record, expertise and requisite pedigree to meet the needs of global engineering teams. The research and development team designs for performance, quality and compactness, with an emphasis on cost effective features.



The YT-3300 is one of a range of innovative smart positioners manufactured by YTC.

M&M

M&M International Srl adds a complete range of solenoid valve products to the Rotork Instruments division.

Established for over 30 years, M&M is a leading manufacturer of general purpose solenoid valves, air actuated piston valves, automatic drain valves, connectors, coils and customised instrumentation solutions used throughout the commercial and industrial flow control industries.

From its base at Bergamo, Italy, M&M complements the products and services provided by Rotork Instruments and provides a focal point for solenoid valve and piston actuated valve manufacturing. As a part of the global Rotork Group, Rotork Instruments maintains manufacturing facilities in USA, England, Italy, Brazil, India, China, Singapore and Korea, complemented by a large network of distribution and support centres.

The Rotork global sales and service network supports all Rotork Instruments products.

This network is the biggest global actuation support organisation in the world with direct sales offices and agents in all industrialised countries. Customer service and field support provides quick and effective response to customer requirements.

In addition, the Rotork Site Services network is represented throughout the world and provides valuable asset management services and assistance to all industries.



M&M is a leading manufacturer of instrumentation solutions including solenoid valves and air actuated piston valves.