SPIRA-TROL

general service control valves





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About the SPIRA-TROL

The SPIRA-TROL has been developed using the very latest in Computational Fluid Dynamics and rapid prototyping techniques to provide a modern valve for today's demanding industries.

The control valve has a modular design concept and incorporates many options within one body envelope. Both ASME (ANSI) and EN versions share the same internals and only three pneumatic actuators are required for valves up to DN200, 8" in size. This leads to a low number of components and a highly flexible system, where one valve can satisfy the needs of numerous industrial requirements. The outcome for the user is a general service control valve with exceptionally low cost of ownership.

A general service control valve with a winning formula

General service application

Precise control

High performance stem sealing

Long life internals

Low number of components

Quick and easy maintenance

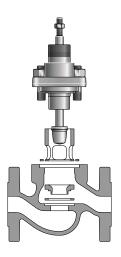
Low cost of ownership and higher profits for you



The range at a glance

| Valve name | Valve type | Body materials | Valve sizes | Connections | Flow characteristics | Special trims | Stem seals | Actuation |
|------------|--|---|------------------------------|---|--|--|--|--|
| SPIRA-TROL | 2-port globe to ASME (ANSI) or EN | Cast iron SG iron Carbon steel Stainless steel NACE | DN15 to DN200 ½" to 8" | Flanged: ASME 125 ASME 150 ASME 300 PN16 PN25 PN40 JIS 10 JIS 20 KS 10 KS 20 Screwed: BSP NPT Socket weld | Equal percentage Linear Fast opening Reduced flow including microflute | Low noise Soft seal Hard facing Balanced option | Spring loaded chevron and 'O' ring Graphite Bellows Bonnet extension | Pneumatic Electric Modulating On / Off |

Clamp in place, free float design



All trim components are designed to clamp in place so the valve can be quickly configured to the user's specific process needs.

The free float of the seat and plug during assembly means that stem, plug and seat alignment is easily achieved.

When compared to alternative designs, the free float design provides the user with longer stem seal life and better valve shut-off performance.

The simplicity of build also means that maintenance is quick and easy, with no special tools required to achieve the design performance of the valve.

- Quick to configure
- No special tools required
- Design performance easily achieved after maintenance

Industries, fluids and applications -

Where the SPIRA-TROL has been frequently used

| Industries | | Fluids | | Applications | |
|------------------------------------|------------|--------------------------------|------------------|--|--------------|
| Food | Beverages | Saturated steam Lubricant oils | | Temperature, pressure, level, humidity | |
| Pharmaceutical | Medical | Superheated steam | Nitrogen | and flow control | |
| Rubber | Plastics | Chilled water | Petroleum | Heat exchangers | Cooking pans |
| Electronics | Metals | Hot water | Natural gas | Pressure vessels | Reactors |
| Chemicals | Healthcare | Deionised water | Thermal oils | Storage vessels | Ovens |
| Prisons and educational facilities | | Sea water | Compressed air | Unit heaters | Chillers |
| | | A variety of other che | micals and gases | Hot water generators | Humidifiers |

Available options

Between three and five reduced flow trims per valve size, with further reductions available to special order, allows precise matching to the process load.

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Reduced flow trim



Valve stem sealing options include PTFE chevrons and high temperature graphite rings.







Summary of key features and benefits

Key features Key reasons Key benefits General service Many body material options. Standardised control valve for your plant, which minimises application Large number of trim designs including maintenance, training and spares low noise and micro-flute. inventory. Electric or pneumatically operated. Easily interfaced with a control system using: - Double mount actuator yoke. - A control valve interface device from Spirax Sarco that includes smart and communicating positioners for use in hazardous and non-hazardous environments. Precise control Designed using in-house Computational Fluid Excellent control performance Dynamics and rapid prototyping to optimise across a wide range of flow paths, flow characteristics and rangeability. applications. Sizing and selection software to determine the most suitable valve configuration. Accurate pneumatic and electric actuators. Optional non-contact feedback positioners. High performance Top and bottom guided valve stem ensures excellent Low emissions from the alignment and long stem seal life. valve stem, which means long life stem seal a better environment and Scraper ring and dust ring ensures the stem seal no loss of valuable product or is not damaged by the flow media or particles from energy. the atmosphere. Infrequent seal replacement, 'O' ring ensures excellent sealing on low pressure leaving maintenance personnel and temperature media. free for other work. Fit and forget. Long life valve Hard trim materials as standard on iron and carbon steel valves. internals Diffused discharge from the seat and plug reduces the possibility of jet stream damage to the body. Large gallery area reduces the flow velocity, which means reduced body erosion and noise. Low number of Fully modular design through the sizes. Highly flexible supply. components ASME (ANSI) and EN valves share the same internals. Minimises spares inventory. Two ranges of pneumatic actuators to suit valves up to DN200 / 8". Quick and easy Standard size fixings eliminating the need for Limited plant downtime. specialist tools. maintenance Self-aligning, clamp-in-place internals. Low cost of General service application.

Excellent control over a wide range of fluids

and conditions. Long service life.

Low number of components. Quick and easy maintenance. Larger profits for you.



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Asia

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Europe

Austria Hungary Ireland

Middle East

UAE

Some products, services or solutions may not be available in certain markets

Africa

Algeria Cameroon Ethiopia Ghana Ivory Coast Libya Malawi Mauritius Morocco Namibia Senegal Sudan Tanzania Tunisia Uganda

Americas

Zambia

Zimbabwe

Bolivia Chile Colombia Costa Rica Dominican Republic Ecuador El Salvador Guatemala Honduras Jamaica Nicaragua Panama Paraguay

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