Axial Isolation & Axial Control Valves

GOODWIN INTERNATIONAL LTD
Flow Control Division
Goodwin International is a world leader in the design, manufacture and supply of check valves for the hydrocarbon, energy and process industries worldwide.

Based in the United Kingdom, the company exports to over 80 countries and offers outstanding support to its customers, including many of the world’s end users, oil majors and international engineering contractors.

With 35 years of valve manufacture and international sales, Goodwin has built an enviable reputation for providing quality products at internationally competitive prices.

With check valve sales in excess of 750 million USD in the past 10 years, Goodwin International is globally approved. Its high quality products are supported by an organisation that has extensive experience, knowledge and skill sets to meet today’s stringent end-user specifications and their quality management system expectations.
Introducing the Goodwin range of Axial Isolation & Axial Control Valves

The product range offered by Goodwin has now been extended to include a selection of high performance Axial Isolation and Control Valves.

Several years of Research, Design and Testing has been carried out to bring these products to market, with international patents pending for innovative design features.

Axial Isolation & Control Valves are used in highly demanding applications where tight shut off, high reliability, fast opening / closing and precise control are desired. Goodwin Axial Isolation & Control Valves represent a highly effective and cost efficient alternative to current designs available to the market.

Goodwin can supply a diverse range of forged or cast valve body materials, including a wide selection of Carbon Steel, Stainless Steel, Duplex Stainless Steel, Nickel Alloy and Titanium Alloy.

Goodwin International is proud to be able to offer these innovative products to the market, demonstrating the levels of technical excellence, endurance and reliability its customers expect.

www.goodwinflowcontrol.com
Goodwin Axial Isolation and Control Valves come equipped with innovative features that set Goodwin apart from its competition. Providing durability, reliability & control, with the exceptional service that Goodwin is renowned for.

**Axial Flow**
- Reduced turbulence through the valve body as a result of the streamlined flow path.
- High capacity, low noise and minimal pressure loss through the body.

**Fully Pressure Balanced**
- Truly pressure balanced allowing the use of compact and cost effective actuation.
- Pressure balancing is equally effective in both forward and reverse pressure conditions.

**3 Piece Split Body Design**
- Inherent manufacturing advantages leading to reduced lead-times.
- Flexible design allows the use of forgings or castings.
- Full NDE accessibility for the pressure boundary components.
- Advanced sealing and precise component manufacturing result in zero leakage.

**Rack-Pinion-Rack Gear Train**
- Highly durable fast acting and precise.
- Zero risk of gear teeth seizure even in low or non lubricated service.
- Low friction and high efficiency compared to sliding gear mechanisms.
- Low backlash maintained over the lifetime of the product.
**Axial Control Valve**

Goodwin Axial Control Valves have been designed in accordance with ASME B16.34 with face to face dimensions based upon ASME B16.10 allowing interchangeability with other valve types (Ball, Globe). Alternative dimensions available upon request.

Axial Control Valves can be manufactured and tested in compliance with International valve standards according to customer requirement. Including but not limited to API, ANSI, ASME, BS, DIN, IEC, ISO & MSS.

Valve sizing and trim selection are determined using Goodwin proprietary software in compliance with IEC 60534.

**Axial Isolation Valve**

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Axial Isolation Valves can be manufactured and tested in compliance with International valve standards according to customer requirement. Including but not limited to API, ANSI, ASME, BS, DIN, IEC, ISO & MSS.

Fire testing conducted in compliance with API 6FA & ISO 10497

[www.goodwinflowcontrol.com](http://www.goodwinflowcontrol.com)
Research &
development

Extensive research and testing has been conducted by Goodwin to validate the reliability and performance of the new generation of Axial Isolation and Axial Control Valves.

- Isolation Valve sealing and mechanical performance are tested using a purpose built Hydraulic Flow Laboratory.
- Control Valve capacity, flow characteristics and acoustic performance measured using a purpose built Pneumatic Test Laboratory.
- Finite Element Analysis (FEA) used to verify the mechanical integrity of the design.
- Computational Fluid Dynamics (CFD) to simulate flow through valve and to aid trim design in the Axial Control Valve.
- Fire Testing conducted in compliance with API 6FA & ISO 10497 for the Axial Isolation Valve range. The Axial Control Valve comprises the same sealing technology and as such can be considered a fire safe design.
- Fugitive Emissions testing conducted in compliance with International standards.
- Extensive mechanical and microstructural analysis is conducted when selecting materials to ensure compatibility and eliminate fretting and galling.
- Application specific seal performance testing.

Goodwin International has an excellent reputation as a recognised supplier to global industry.

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**Typical Applications**

- Flow Control
- Pressure Control
- Anti-Surge Control

- Transmission
- Distribution & Storage
- Gases, Liquids and Multi-Phase Fluids

- Flow Line Isolation
- Critical Isolation (Start Up-Blowdown)
- Surge Control

- Firewater Systems
- Severe Service
- Emergency Shutdown

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