

COMPANY PROFILE



LEADER IN CONTROL VALVE

MANUFACTURING

ABOUT

Mitech Control Valves (Pty) Ltd is a leader in control valve manufacturing with its headquarters based in Johannesburg, South Africa.

Mitech prides itself in providing control valve solutions for the global process control industry, while growing South Africa's capability through local manufacturing.

With its expertise deeply rooted in severe service applications, Mitech's control valve range offers solutions for industrial process control applications in the oil and gas, petrochemical, chemical, paper and pulp, sugar, food and beverage, power generation, mining and many other industry sectors.

Mitech supports its product range with computer aided design and analysis, engineering, training, after sales services, repairs and expert technical support.



INDEX

- Mission, vision and values..... 4
- Market presence..... 5
- Safety..... 6
- Quality..... 7
- Environmental policy..... 8
- International projects..... 9
- Product range..... 10-13
- Product capability matrix..... 15



OUR MISSION

We strive to be the control valve manufacturer of choice for the global process control industry. We will exceed our customer's expectations and earn their trust and respect through consistent and reliable delivery of quality products and services.



OUR VISION

World class process control valve solutions grounded on vast local expertise.



OUR VALUES

*Accountability – if it is to be, it is up to me
Integrity – doing the right thing when no one is watching
Quality – is not a manufacturing process, it is everything
Safety – no harm to anyone, anywhere, everyday
Respect – yourself, your colleagues, your company, your environment*

MARKET PRESENCE



HEAD OFFICE:

- Johannesburg

BRANCH OFFICES:

- West Rand
- KwaZulu Natal (Swaziland, Mozambique)
- Western Cape (Namibia)
- Malaysia (Indonesia, Vietnam, Thailand, Philippines, Myanmar)

BUSINESS PARTNERS:

- Secunda
- Vaal Triangle
- North West
- United Kingdom
- Germany
- United Arab Emirates
- Iran
- Malaysia
- Indonesia





SAFETY

It is Mitech's policy to ensure, as far as it is reasonably practicable, to ensure the prevention of injury and ill health of all our employees and any other persons who may be directly affected by our activities and/or products.

We are committed to:

- Promoting communication with stakeholders about safety and health performance
- Complying with all applicable legal and other minimum requirements to which Mitech subscribes to
- Responsibly utilising our natural resources
- Conducting our business with respect and care for people
- Continually improving our safety and health management systems and performance
- Mitigating all possible injuries, property damage or process losses through effective risk management

We will ensure this by:

- Aiming to achieve compliance with legal requirements through good occupational health and safety performance
- Providing adequate resources to implement this policy
- Establishing and maintaining a safe and healthy working environment
- Ensuring that significant risks arising from work activities under our control are eliminated, mitigated or adequately controlled
- Developing and implementing appropriate occupational health and safety procedures, and safe working practices
- Including the management of health and safety as a specific responsibility of managers at all levels
- Ensuring this policy is understood, documented and implemented throughout the organisation
- Involving employees in health and safety decisions through consultation and co-operation
- Maintaining workplaces under our control in a condition that is safe and without risk to health
- Periodically reviewing the policy for applicability to all business processes and ensuring that the management system supports the policy and is updated accordingly
- Providing sufficient information, instruction and supervision to enable all employees to avoid hazards and contribute to their own health and safety at work
- Ensuring that employees receive appropriate training and are competent to carry out their designated responsibilities
- Providing a risk based framework for setting and reviewing occupational health and safety objectives
- Ensuring that the policy is made available to all interested parties

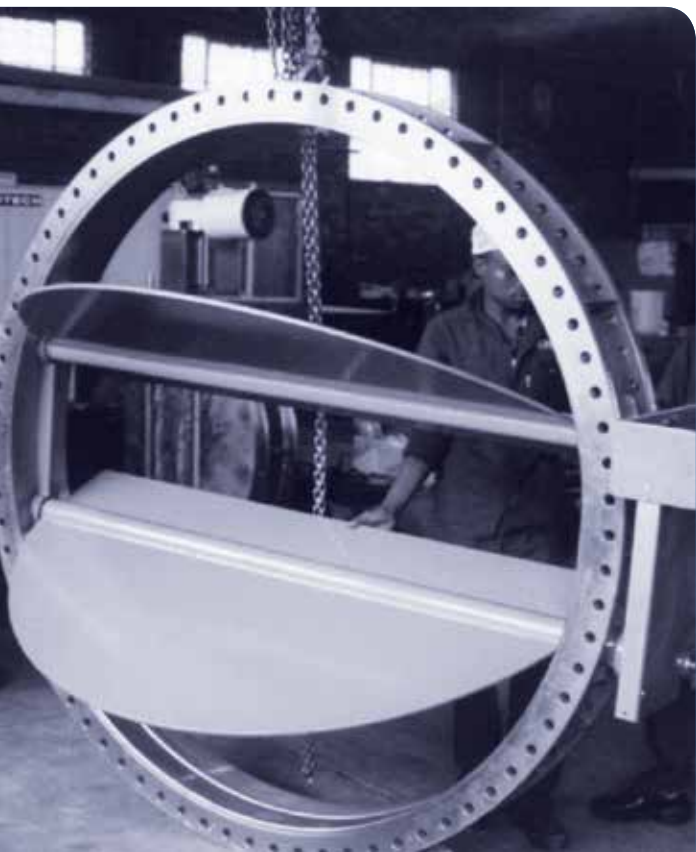
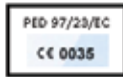
QUALITY

Mitech is a renowned South African industrial engineering company that wishes to stamp its mark in a highly competitive market. Mitech offers skilled resources in terms of Bespoke and Severe Service Valves, Pneumatic Rotary Actuators, Pneumatic Linear Actuators, Globe Control Valves, Desuperheaters and Positioners. Its experience and product knowledge aids in developing mutually beneficial relationships with customers and suppliers.

We are committed to:

- Providing customers with high quality products and services which meet requirements and are fit for their purpose
- Continually improving the effectiveness of the quality management system
- Ensuring that the policy is communicated and understood by all employees
- Periodically reviewing the policy to ensure its suitability to the businesses' operational requirements
- Providing a framework for establishing and reviewing quality objectives
- Enhancing the skills of management and staff through review and actively pursuing an on-going training policy, the objective of which is to prepare staff to perform their work more effectively
- Promoting the culture of continual quality improvements and the philosophy of getting things 'right the first time'
- Rigorously controlling the supply, installation and completion of all projects and products
- Promoting the quality management systems and ensuring implementation is achieved by internal auditing, management review, corrective and preventive action

Everyone is responsible for the quality within the company and for maintaining high standards.





ENVIRONMENTAL POLICY

Mitech recognises that day-to-day production and operations can impact both directly and indirectly on the environment. We aim to protect and improve the environment through good management and by adopting best practice where possible. Mitech will work to integrate environmental considerations into our business decisions and adopt greener alternatives wherever possible, throughout our operations.

In all our activities we aspire to:

- Comply fully with all relevant legal requirements, codes of practice and regulations to which the organization subscribes which relate to its environmental aspects
- Prevent pollution to land, air and water
- Reduce water and energy usage
- Minimise waste and increase recycling within the framework of our waste management procedures
- Identify and manage environmental impacts and aspects
- Involve customers, partners, clients, suppliers and subcontractors in the implementation of our objectives
- Setting and reviewing environmental objectives and targets
- Promote environmentally responsible purchasing
- Provide suitable training to enable employees to deal with their specific areas of environmental control
- Establish targets to measure the continuous improvement in our environmental performance
- All employees are responsible for working towards the objectives contained within this policy
- Ensure that the policy is documented, implemented and maintained
- Conduct periodical revision to ensure that the policy is relevant to the business requirements



Mitech is accredited for ISO 9001:2008, ISO 14001:2004 and PED 97/23/EC.

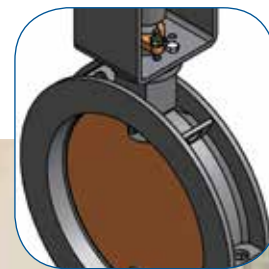
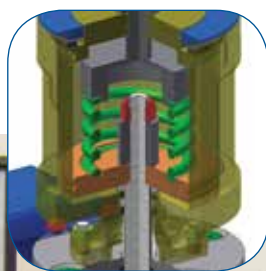


INTERNATIONAL PROJECTS

Mitech exports its wide range of products, as well as bespoke valves worldwide, providing its customers with the best and most economical solutions for their demanding specifications. Major end users and engineering companies across the world use Mitech's knowledge and expertise for applications in the oil, gas and energy industry.

Some examples of recent exports include:

Country	Valve Size	Rating	Type	Medium	Material	Application
United Kingdom	600mm	ANSI600	Globe	Water	WCB Steel	Pressure Reducing
Mozambique	100mm	ANSI600	Globe	Steam	WCB Steel	Steam Control
Philippines	150mm	ANSI600	Desuperheaters	Water / Steam	Stainless Steel	Desuperheating Station
United Kingdom	400mm	ANSI4500	Angle	Water	Stainless Steel	Pump Test
Australia	80mm	ANSI2500	Globe	BFW	WC9 Steel	BFW Leak Off
USA	100mm	ANSI2500	Angle	Water / Sand	Duplex St.St.	Choke Valve
Turkey	200mm	ANSI1500	Angle	Steam	WCB Steel	Steam Vent



PRODUCT RANGE



Globe Control Valves

- Severe service model in ½" to 24" NB and up to ANSI 4500
- Low noise, cavitation control, ZZ and EDDS energy dissipating trims
- 2-port globe, 3-way globe, 2-port angle and sweep angle designs
- Free floating clamp in place trim design
- Ideal for high pressures and extreme operating conditions
- Choice of body and trim materials



Positioners

- Modular design
- Rotary, linear, single and double-acting
- Ex ia as a standard
- 20 – 100 kPa, 4-20 mA
- Suitable for up to 10 bar air supply
- Field reversible
- Corrosion resistant



Desuperheaters

- Engineered for each application
- Accurate control to within $\pm 1^\circ\text{C}$ of set point
- Lightweight and easy to install
- No moving parts in the steam flow
- Reduced maintenance
- Meets ISO 9001 and PED approval
- Turndown of up to 30:1
- Conventional, Spill-back and Steam Atomising designs



Pneumatic Rotary Actuators

- Field reversible
- Namur accessory mounting
- Pneumatic piston design
- Up to 250 000 Nm torque
- Available in large sizes
- Square drive
- Engineered and fitted to most valves



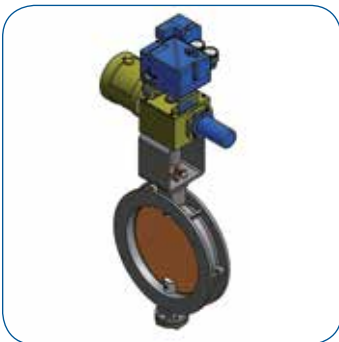
Sweep Angle Control Valves

- Flow-to-close configuration
- Available in sizes from 1" to 16"
- Larger sizes are available on request
- Flange ratings of up to # 2 500
- Tungsten carbide or ceramic plug and seat
- Few components in the flow path - eliminates sharp changes in direction
- No need for a traditional retainer or cage
- Optional Penton coated body



Pneumatic Linear Actuators

- Double acting or fail open/fail closed
- Pneumatic piston design
- 195 000 Newtons
- Engineered and fitted to most valves
- Available in large sizes
- Easy to mount
- High thrusts achievable



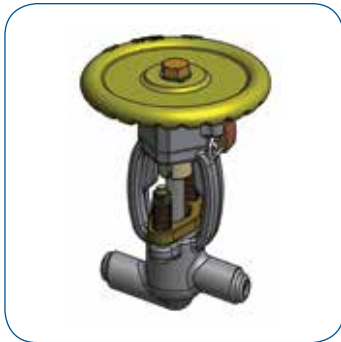
Dampers

- Similar to Butterfly design with no seat
- Single, double door or oblong vane-type configurations
- Double crank rotary actuator and positioner for control
- Sizes from 200 mm up to 2 500 mm with flange ratings of #600
- Manufactured in flanged, wafer or lugged pattern designs
- Carbon or stainless steel bodies and disks



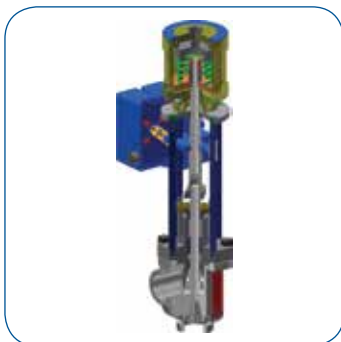
Rotating Disc Valves

- Unique rotating shearing disc
- Metal to metal seating
- High pressure capability
- Simplicity in design



High Pressure Stop Globe Valves

- High performance for demanding applications
- One piece die-forged body
- Replaceable seat
- Graphite packing arrangement



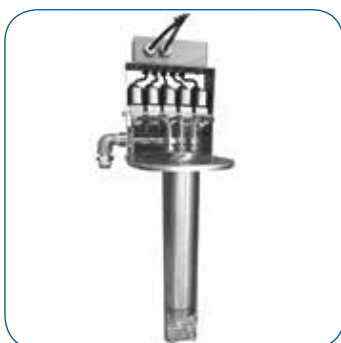
Hygienic Valves

- Suitable for CIP operation
- Maximum 150°C temperature range
- 316 stainless steel body
- Sizes from 25 mm to 100 mm ANSI 150#
- Double acting or spring return actuators
- Field reversible fail-closed or fail-open action
- Rated for 1 000kPa
- Available with steam jackets to prevent the medium from coagulating



Dosing Control Valves

- Specifically designed for the application
- Continuous monitoring of the dosing state
- 15 minute feedback
- Medium is continuously circulated
- Reduced clogging, spillage and crystallisation
- Extremely cost effective



eSteam Desuperheaters

- High turndown, good controllability
- Designed for steam with flow rates up to 100 t/h
- Suitable for temperatures up to 500°C and pressures to 40 bar(g)
- Water turndown of 20:1 is achievable
- Steam temperature cooled to within 2 - 5°C of saturation
- Nozzles sized according to the required water flow rate
- No additional control valves, steam assist or instrument air required



Bespoke Valves

- Custom-made valves
- Special valve packages
- Valves with special requirements
- Modular designs, robust construction
- Various trims to clamp in place
- Locally designed and manufactured



Retrofit Valves

- A retrofit service where new internals and top works are fitted to an original valve body
- Fitting of new trims
- Actuator and positioner updates
- Materials for safe operation and long life
- Cost-effective



Static Flow Mixers

- Highly efficient mixing with highest degree of mix in the shortest time with lowest energy consumption
- No moving parts for maintenance free operation
- Easy to install with no special skills required
- Custom designed to meet specific requirements



Rubber Lined Butterfly Valves

- Body material – Ductile Iron, WCB Steel or CF8M St.Steel
- Disc material – Ductile Iron, Duplex St.Steel, Aluminium Bronze and others
- Liner- EPDM or Polyurethane
- Sizes – 80 mm to 1800 mm
- Pressure rating – PN6 to PN40
- Style- Wafer, lugged or double flanged



PRODUCT CAPABILITY MATRIX

	Oil & Gas	Refining	Mining	Metals & Minerals	Power Generation	Paper & Pulp	Sugar	Food & Beverage	Chemical	Water & Sanitation	Pharmaceutical
Globe Control Valves	●	●	●	●	●	●	●	●	●	●	●
Rubber Lined Butterfly Valves			●	●						●	
Pneumatic Linear Actuators	●	●	●	●	●	●	●	●	●	●	●
Pneumatic Rotary Actuators	●	●	●	●	●	●	●	●	●	●	●
Positioners	●	●	●	●	●	●	●	●	●	●	●
Desuperheaters	●	●		●	●	●	●		●		
Angle Valves	●	●	●	●	●	●	●	●	●	●	●
Sweep Angle Valves	●	●			●		●				
Plastic In-Line Valves				●		●		●	●	●	●
Dosing Valves		●		●	●	●	●	●	●	●	●
Hygienic Valves								●			●
High-Pressure Stop Globe Valves	●	●		●	●	●	●		●		
Damper Valves		●		●	●	●	●				
Rotating Disc Valves		●	●	●	●		●				
Bespoke Valves	●	●			●	●	●		●		
Retrofit Services	●	●	●	●	●	●	●	●	●	●	●
Engineering & Design	●	●	●	●	●	●	●	●	●	●	●
Training	●	●	●	●	●	●	●	●	●	●	●
Maintenance and repair	●	●	●	●	●	●	●	●	●	●	●



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