

Proud member of
the HEROSE Group



Product Catalogue

Valves for Critical and Essential Industries

Protect lives and assets

mackvalves.com

MACK VALVES

LETTING GOOD IDEAS FLOW



For over eighty years, Mack Valves have been a uniquely Australian story—designing, manufacturing and supplying valves from, and for, one of the world’s harshest and most remote environments.

Mack Valves design, manufacture and supply products to the Cryogenics, Steam, Water, Fire, Air and Gas Industries for General Process Application.

> **AUTOMATIC CONTROL VALVES**

INDUSTRY: Municipal, Mining & Infrastructure
FOR: General Process Application

> **BALL FLOAT VALVES**

INDUSTRY: Water
FOR: General Process Application

> **BALL VALVES**

INDUSTRY: Cryogenic, Steam, Water, Air and Gases
FOR: General Process Application

> **CHECK VALVES**

INDUSTRY: Cryogenic, Steam, Water, Air and Gases
FOR: General Process Application

> **DIVERTING VALVES**

INDUSTRY: Cryogenic, Steam, Water, Air and Gases
FOR: General Process Application

> **FLOW SWITCHES**

INDUSTRY: Water and Gases
FOR: General Process Application

> **GLOBE VALVES**

INDUSTRY: Cryogenic, Steam, Water, Air and Gases
FOR: General Process Application

> **LIQUID CYLINDER VALVES**

INDUSTRY: Cryogenic, Steam, Water, Air and Gases
FOR: Cryogenic Liquid and Gas Application

> **REDUCING & PRESSURE BUILD VALVES**

INDUSTRY: Cryogenic, Air and Gases
FOR: General Process Application

> **HIGH LIFT RELIEF VALVES**

INDUSTRY: Cryogenic, Steam, Water, Air and Gases
FOR: General Process Application

> **SCREW-DOWN NON-RETURN VALVES**

INDUSTRY: Cryogenic, Steam, Water, Air and Gases
FOR: General Process Application

> **SINGLE DIAPHRAGM CONTROL VALVES**

INDUSTRY: Municipal, Mining and Infrastructure
FOR: Water

> **Y STRAINERS**

INDUSTRY: Cryogenic, Steam, Water, Air and Gases
FOR: General Process Application

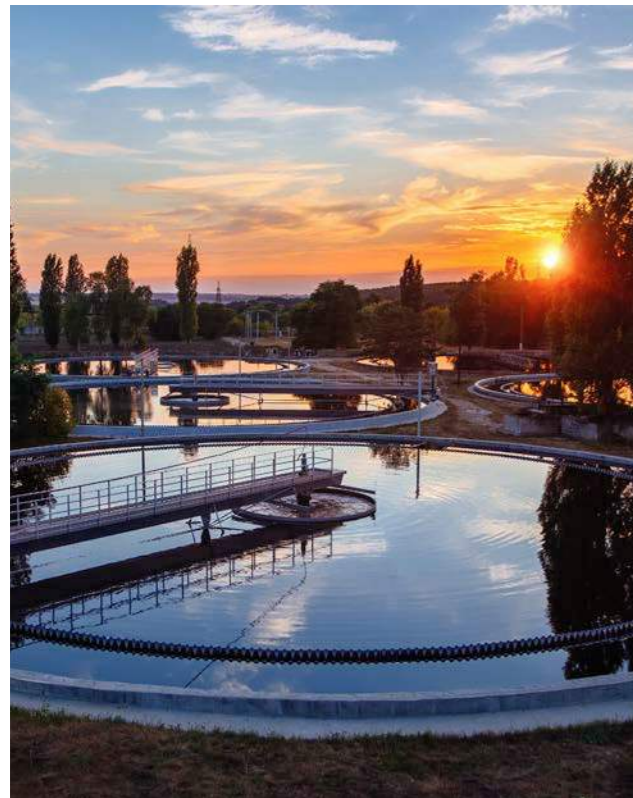
Flanged Safety Relief Valve



Automatic Control Valves

Water Distribution + Mining Industries + Infrastructure + Fire

Superior in design, our Automatic Control Valves offer efficient and trouble-free reliable operation where the demand for absolute dependability exists. Manufactured to strict control standards to achieve the highest industry certificates, our 33 Series ACVs are available in the configurations listed. In addition to this, we offer over 20 extra options to ensure your ACV does the job you need.



> PRESSURE REDUCING

Keep downstream pressure constant.

> PRESSURE REDUCING & CHECK

Prevent back-flow.

> PRESSURE SUSTAINING & PRESSURE RELIEF

Eliminate problems with sustaining back pressure, pressure relief and uploading functions in the bypass systems.

> PRESSURE SUSTAINING & CHECK

Maintain constant upstream pressure.

> RATE OF FLOW

Maintain maximum allowable flow rate.

> ALTITUDE

Control high water level in reservoirs.

> FLOAT LEVEL CONTROL

On/Off Float Valves are non-modulating valves.

> MODULATING FLOAT CONTROL

Equalise variations in supply and demand.

> PUMP CONTROL

Prevent reverse flow.

> PUMP CONTROL AND CHECK VALVE

Control surges in a pipeline.

> DUAL STAGE PRESSURE REDUCING

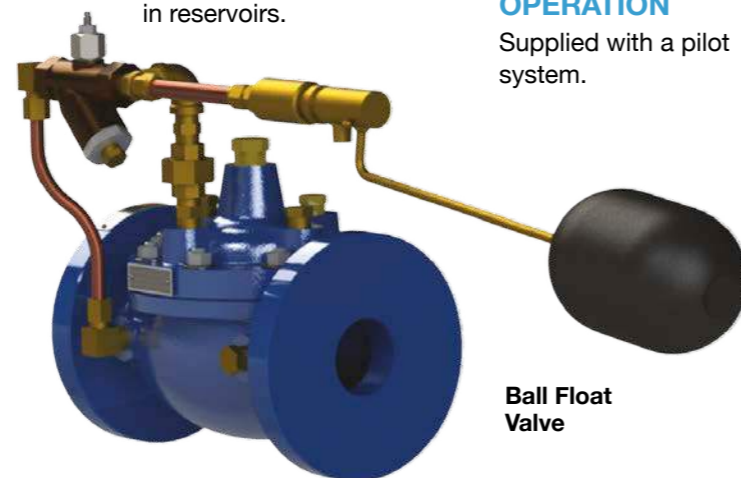
Get automatic control dual pressure.

> SOLENOID ON/OFF

Mack solenoid-controlled, automatic control valves are available.

> TWIN SOLENOID OPERATION

Supplied with a pilot system.



Ball Float Valve

Our ACVs are have achieved the highest industry certifications including AS5081, AS4020 and WaterMark Certification.



23 SERIES SDCV

SINGLE DIAPHRAGM CONTROL VALVE

Industry: Water

Working Pressure: 0-1,600 kPa

Uses: Municipal, Mining and Infrastructure

> PRESSURE RELIEF

Respond to upstream pressure and slow closing to minimise water hammer used on pump sets to maintain pressure irrespective of system demand, by passing excess water.

> PRESSURE REDUCING

Maintain an accurate downstream pressure in high-rise multi storey buildings, to ensure correct pressures in combined mains at safe working limits.

> FLOAT

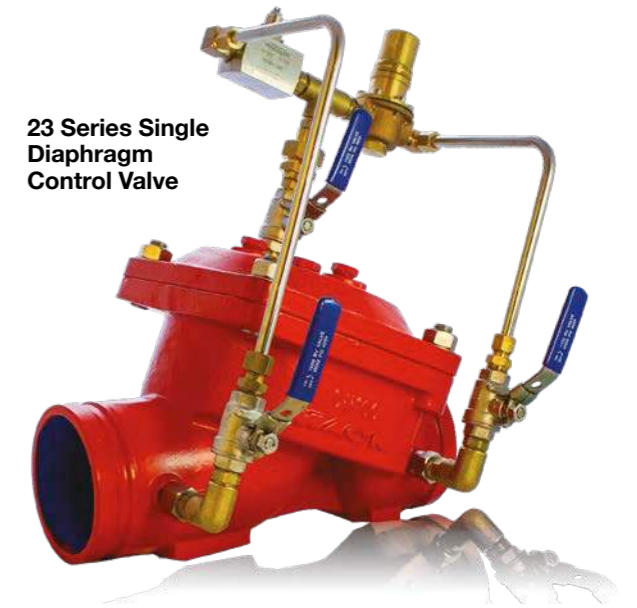
Maintain water level in fire tanks to ensure water is available to the system at all times during a fire; drip-tight positive seal, removable seat insert, in-line servicing.

> DELUGE

Are used in high hazard fire zones to provide suppressant to sprinkler zones when a fire is sensed. They are available in air operated or solenoid operated versions.

All build options are available on special order enabling clients to create their own specifications for their needs, but our stock is based around common material specifications favoured by Industry.

23 Series Single Diaphragm Control Valve



ACV KEY FEATURES:

- Use with a multitude of liquid mediums including potable water, seawater, aviation fuel, diesel and many others.
- Flanged connections to international standards.
- Internal and external epoxy coating, fusion.
- Bonding and alternative coating materials available on request.



Valves for Critical and Essential Industries



BALL FLOAT VALVES

- Materials:**
- Bronze
 - Stainless Steel
 - Cast Iron
- Sizes:**
- Flanged; 25-300mm
 - Screwed; 15-50mm
- Pressures:**
- 3,500 kPa
 - 500 psi
 - 35 bar
- Temperatures:**
- 0°C to +83°C
- Connections:**
- Flanged
 - Screwed



3 PIECE BALL VALVES

- Materials:**
- Stainless Steel
- Sizes:**
- 15-50mm
- Pressures:**
- 5,000 kPa
 - 290 psi
 - 20 bar
- Temperatures:**
- -196°C to +120°C
- Connections:**
- Screwed
 - Butt Weld
 - Socket Weld
- *HEROSE Product



CHECK VALVES

- Materials:**
- Bronze/Stainless Steel
- Sizes:**
- Flanged; 15-300mm
 - Screwed/Welded; 15-50mm
 - Wafer; 50-450mm
- Pressures up to:**
- 5,000 kPa
 - 725 psi
 - 50 bar
- Temperatures:**
- -196°C to +120°C
- Connections:**
- Flanged
 - Screwed
 - Welded
 - Wafer



3 WAY DIVERTING VALVES

- Materials:**
- Bronze/Stainless Steel
- Sizes:**
- Flanged; 15-150mm
 - Screwed; 15-50mm
- Pressures up to:**
- 5,000 kPa
 - 725 psi
 - 50 bar
- Temperatures:**
- -196°C to +190°C
- Connections:**
- Flanged
 - Screwed



FLOW SWITCHES

- Materials:**
- Bronze
- Sizes:**
- 25/32mm
- Pressures up to:**
- 2,000 kPa
 - 290 psi
 - 20 bar
- Temperatures:**
- 0°C to +300°C
- Connections:**
- Screwed

*Supplied with a cover



GLOBE VALVES

- Materials:**
- Bronze/Stainless Steel
- Styles:**
- Bolted Bonnet, Inside Screwed
- Sizes:**
- Flanged; 15-300mm
 - Screwed/Welded; 15-50mm
- Pressures up to:**
- 5,000 kPa
 - 725 psi
 - 50 bar
- Temperatures:**
- -196°C to +120°C
- Connections:**
- Flanged
 - Screwed
 - Welded



LIQUID CYLINDER VALVES

- Material:**
- Forged Brass
- Sizes:**
- 8-15mm
- Pressures up to:**
- 4,200 kPa
 - 610 psi
 - 42 bar
- Temperatures:**
- -196°C to +70°C
- Connections:**
- Screwed
 - Stub-ends

We design, manufacture and supply products to the Cryogenics, Steam, Water, Fire, Air and Gas Industries.

We make sure that your system works the way you designed it to work — safely, all the time!



REDUCING & PRESSURE BUILD VALVES

- Materials:**
- Bronze/Stainless Steel
- Sizes:**
- Flanged; 15-150mm
 - Screwed; 15-50mm
- Pressure build up to:**
- 6,000 kPa
 - 870 psi
 - 60 bar
- Pressure reductions up to:**
- 10,000 kPa
 - 485 psi
 - 33.5 bar
- Temperatures:**
- Build; -196°C to +190°C
 - Reducing; -20°C to +400°C
- Connections:**
- Flanged
 - Screwed



HIGH LIFT RELIEF & FULL LIFT NOZZLE VALVES

- Materials:**
- Bronze/Stainless Steel
- Sizes:**
- Flanged; 15-150mm
 - Screwed; 15-50mm
- Pressures up to:**
- 9,000 kPa
 - 1,305 psi
 - 90 bar
- Temperatures:**
- -196°C to +190°C
- Connections:**
- Flanged
 - Screwed
- Available as a Relief or Safety valve



SCREW-DOWN NON-RETURN VALVES

- Materials:**
- Bronze/Stainless Steel
- Styles:**
- Bolted Bonnet
 - Inside Screwed
- Sizes:**
- Flanged; 15-300mm
 - Screwed/Welded; 15-100mm
- Pressures:**
- 5,000 kPa
 - 725 psi
 - 50 bar
- Temperatures:**
- -196°C to +250°C
- Connections:**
- Flanged
 - Screwed
 - Welded



Y-STRAINERS

- Materials:**
- Bronze
 - Stainless Steel
- Sizes:**
- 15-300mm
- Pressures up to:**
- 5,000 kPa
 - 725 psi
 - 50 bar
- Temperatures:**
- -196°C to +190°C
- Connections:**
- Flanged
 - Screwed
 - Welded

NOTE: Other material options are available on request.

Our engineering team can work with you to design the valve for your specific needs. Get in touch to discuss bespoke solutions.

Our valves are at the heart of industries worldwide

Around the world, our products are crucial to the safety, efficiency and reliability of companies across many critical and essential services. We have a proud reputation for quality products that have provided unquestionable reliability for decades.



Speak directly to our specialist sales team to discuss your valve needs, or to get a personalised quote, call **+61 3 9737 5200**

SUPPORTING INDUSTRY SINCE 1939

Backed by 80 years of operation, Mack Valves has supported a large range of industries, offering a variety of solutions for different needs. With that experience, today Mack is focused across; Water Management, Cryogenic, General/Steam, Fire Protection, Defence and Oxygen Service Industries, with a core product range to support each one.

QUALITY AND RELIABILITY

Mack Valves is synonymous with high quality and reliability of service, and is the valve of choice when these attributes are critical. Over the years, Mack has provided flow control solutions for many hazardous applications, showing why industry chooses Mack Valves for their plant and asset protection.

FUTURE FLOW

Forward-thinking ideas drive our world, moving and changing it. By ensuring fast and innovative tailor-made solutions for our clients, Mack Valves partners with industry to deliver not just gas, steam or water, but ideas. Together we are working towards a more sustainable, efficient, and innovative world.

EXPERT KNOWLEDGE

Our specialist sales team works with you to develop a solution right for you. If that requires a bespoke solution, we will engage our team of experienced engineers to design and manufacture a unique product for you.

PROUDLY AUSTRALIAN

Mack has been an Australian valve manufacturer and supplier to industry for over 80 years. We currently have Australian-Made Accreditation on four of our products: our 7E Series, 79 Series, Y and Right-angled strainers.

ENGINEERED FOR INDUSTRY

Mack supplies flow control devices to Australia's critical industrial and infrastructure applications. We maintain a strong local design and engineering resource to best support Australian and Asia-Pacific industries.

MACK + HEROSE

We are a proud member of the HEROSE Group. HEROSE is one of Europe's leading manufacturers of cryogenics solutions. Mack Valves benefit from HEROSE know-how and support.

Learn more about our extensive range of products at mackvalves.com



A Mack Valves quality guarantee means no down-time, enabling you to focus on driving innovation and building a whole new world of opportunities.



Mack Valves is synonymous with high quality and reliability of service providing flow control solutions for many hazardous applications, and showing on each opportunity, why industry chooses Mack Valves for their plant and asset protection.

Quality guarantee

Mack Valves Pty Ltd is committed to providing Australian and world markets with a range of industrial valves manufactured to the highest quality and in conformity with appropriate international standards. The Company will maintain its position as a recognised leader in valve design and manufacturing techniques at all times seeking to employ the world's best practice. The requirements and recommendations of ISO 9001:2015 have been adopted without exclusions as the basis for the Company's Quality Management System.



Innovation is our passion. If you require a custom solution, please ask. We haven't designed it yet, because no one has requested it!



SAI GLOBAL



HEAD OFFICE: Unit 3/34 Garden Street, Kilsyth VIC 3137 Australia
 PHONE: MV Australia +61 3 9737 5200, MV India +91 20 6718 1604
 EMAIL: sales@mackvalves.com

mackvalves.com ABN: 99 094 830 145

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