



CHECK VALVES

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



LIQUID CYLINDER VALVES

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



Y- STRAINERS

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



3 WAY DIVERTING VALVES

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

All build options are available from Mack on special order, thus enabling clients to create their own specifications for their own specific needs, but our stock is based around common material specifications favoured by the cryogenic industry.

If your application requires a bespoke, custom-engineered solution, just ask us

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

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



YOUR MACK 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.

Proud member of the HEROSE Group



Cryogenics

Cool under pressure

Trusted valves for cryogenic liquefied industrial gases



Cool under pressure

For more than eighty years, Mack Valves have been a uniquely Australian story, designing, manufacturing and selling valves from, and for, one of the worlds harshest and most remote environments.

Our Cryogenics story began more than 40 years ago when we were first approached by major industrial gas companies, cryogenic vessel suppliers and end-users to design and build a range of products for them.

To still be doing that more than four decades later, is the result of forty years of proven reliability and our ongoing commitment and support of the Cryogenics Industry.

Today at Mack we produce a complete range of innovative and durable cryogenic valves that set the standards in our region for reliable and safe operation.

Our 'old school' innovation is still with us. If your application requires a bespoke, custom-engineered solution, just ask us. If we haven't designed it yet, that's just because no one has asked us yet!

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

Mack Valves is one of Asia Pacific's leading manufacturers of valves for a diverse range of industrial applications, with a particular focus on an extensive range of cryogenic valves for the processing, transportation and storage of cryogenic fluids and gases.

Mack Valves extensive range of Cryogenic products include:

- > **HIGH LIFT RELIEF VALVES**
Valves for pressure relief
- > **GLOBE VALVES**
Open/close valves for control of flow
- > **SCREW-DOWN NON-RETURN VALVES**
Controllable lift check valves
- > **3 PIECE BALL VALVES**
Open/close valves
- > **REDUCING & PRESSURE BUILD VALVES**
Control pressure down stream of the valve or pressure build maintains a vessel at a specific pressure
- > **CHECK VALVES**
Allows flow in one direction only, prevents flow from the opposite direction
- > **LIQUID CYLINDER VALVES**
Small compact cryogenic service valves
- > **Y STRAINER**
Keeps your system clean
- > **3 WAY DIVERTING**
Diverts pressure to allow maintenance of relief valves



HIGH LIFT RELIEF & FULL LIFT NOZZLE VALVES

Materials:
• Bronze / Stainless Steel

Sizes:
• Flanged; 15-150mm
• Screwed; 15-50mm

Pressures up to:
• 9,000kPa
• 1,305psi
• 90bar

Temperatures:
• -196°C to +190°C

Connections:
• Flanged
• Screwed

*Available as a Relief or Safety valve



GLOBE VALVES

Materials:
• Bronze / Stainless Steel

Styles:
• Bolted Bonnet, Inside Screwed

Sizes:
• Flanged; 15-300mm
• Screwed/Welded; 15-50mm

Pressures up to:
• 5,000kPa
• 725psi
• 50bar

Temperatures:
• -196°C to +120°C

Connections:
• Flanged
• Screwed
• Welded



SCREW-DOWN NON-RETURN VALVES

Materials:
• Bronze / Stainless Steel

Styles:
• Bolted Bonnet, Inside Screwed

Sizes:
• Flanged; 15-300mm
• Screwed/Welded; 15-100mm

Pressures:
• 5,000kPa
• 725psi
• 50bar

Temperatures:
• -196°C to +120°C

Connections:
• Flanged
• Screwed
• Welded



3 PIECE BALL VALVES

Materials:
• Stainless Steel

Sizes:
• 15-50mm

Pressures:
• 5,000 kPa
• 725 psi
• 50 bar

Temperatures:
• -196°C to +120°C

Connections:
• Screwed
• Welded

*HEROSE Product



REDUCING & PRESSURE BUILD VALVES

Materials:
• Bronze / Stainless Steel

Sizes:
• Flanged; 15-150mm
• Screwed; 15-50mm

Pressure Build up to:
• 6,000kPa
• 870psi
• 60bar

Pressure Reductions up to:
• 3,350kPa
• 485psi
• 33.5bar

Temperatures:
• Build; -196°C to +190°C,
• Reductions; -20°C to +190°C

Connections:
• Flanged
• Screwed