

Our mission is to always provide the highest quality severe service valve and maintenance support to our clients, with engineering, manufacturing, workshop and field technician capabilities.

Our aim is to resolve your severe service valve technical and process queries in a timely and effective manner. We know that too often, your autoclave operations are hampered by the inability to get the right specialist valve support at the right time. At PPI Valves, we pride ourselves on having an experienced team who are always available to address your queries and provide the services that your business requires.

#### WHY IS PPI VALVES DIFFERENT?

**PPI Valves is comprised of industry experts who have years of operational and maintenance experience from autoclave sites around the world. We understand what really matters when it comes to the operability and maintenance of severe service ball valves. We understand the details and strive for continuous improvement by incorporating our extensive experience and industry feedback.**

PPI Valves is focused on making your project or operation a success and we will always challenge the status quo to ensure our clients have access to the most advanced suite of options. We offer both standard equipment such as ASME and DIN specification valves and are also able to customise equipment to unique applications.

#### CONTACT US

##### PPI Valves

13 Link Crescent, Coolumb Beach, Queensland, 4573  
 PO Box 181 Coolumb Beach 4573 Queensland  
 sales@ppivalves.com  
 +61 7 5471 7111

##### Adam Hamer

Company Director and Chief Operating Officer  
 Principal Maintenance Engineering Consultant  
 adam.hamer@ppivalves.com  
 +61 418 985 675

##### Mark Broome

Principal Operations Manager  
 mark.broome@ppivalves.com  
 +61 419 717 181

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WHO WE ARE

PPI Valves

PPI Valves was born out of the need for our parent company, Process Plants International (PPI), to address long standing industry issues relating to severe service valve operational performance and maintenance. PPI was founded in 2010 by leading industry specialists from the fields of chemical, minerals processing and maintenance engineering. With expertise rooted in the design, construction, commissioning and maintenance of both High-Pressure Acid Leach (HPAL) and Pressure Oxidation (POX) autoclaves, PPI personnel have been involved in all areas of the autoclave industry for more than 25 years. In 2016, the PPI Valves maintenance facility on the Queensland Sunshine Coast was opened to provide our clients with alternative design and maintenance solutions for their severe service ball valve needs.

WHAT WE DO

Severe Service Valve Design, Manufacture and Maintenance.

PPI Valves specialises in the design and operational support of severe service ball valves to the High-Pressure Acid Leach (HPAL) and Pressure Oxidation (POX) autoclave industries. PPI Valves has in-house capability for general maintenance, refurbishment and provision of OEM and non-OEM spare parts.

PPI Valves provide our clients with a range of options to convert their existing severe service valves to the PPI component design, to resolve existing industry design issues. This allows clients to benefit from the latest PPI Valves designs while utilising existing operations rotatable inventory.

PPI Valves works with clients to improve their severe service valve reliability, to maximise value during operation and to minimise unplanned downtime and repairs.

PPI Valves can maintain clients' valves either on site, with personnel embedded within a client organisation, or remotely at our workshop in Queensland.



OUR PEOPLE

Design and Reliability Engineers, Valve Technicians, Welders, Fitters, Machinists.

Our personnel have been involved with all autoclave project phases from design through to construction, commissioning and operation for over 25 years. It is this experience that enables us to provide customised severe service valve solutions that address site specific issues and requirements. Our in-house process and reliability engineering team can review valve performance to ensure appropriate design and control to maximise valve performance.

PPI Valves maintain strong relationships with industry specialists to support our many core functions. Such relationships include suppliers of exotic materials and specialist component manufacturers.

The PPI Valves team bring a unique set of skills and experience which combine to make your autoclave operation a success. We offer both strategic and practical, hands-on experience of severe service valves to help solve your reliability and operational issues.

CAPABILITY

Quality and Technology

Our workshop facility in Queensland is fully equipped to complete all your valve manufacturing and servicing requirements. Our in-house machine shop and experienced fitters and turners can tackle any specialist repair or modification works in a timely and professional manner.

Our E&I technicians are experienced in control systems and actuation. Together, our team can maintain, repair or modify any of your severe service valve equipment.

The PPI Valves workshop operates under an ISO 9001 compliant quality system. The PPI Valves workshop model provides our clients with robust and proven engineering coupled with leading edge services and technology including:

- » 3D Romer Arm coordinate measuring machine (CMM) and 3D scanning inspection
- » Clean for Oxygen Service inspection, certification and packing for shipment
- » Vapour grit blast cleaning
- » Dot peen equipment marking
- » API certified valve hydro-testing and calibration
- » An extensive suite of qualified weld procedures for fabrication and equipment repair.

SPECIALISED EQUIPMENT AND TECHNOLOGY

High Pressure Gas and Liquid Sparge Integrated Solutions

Developed to address long standing POX autoclave industry issues relating to oxygen, water and steam sparge blockages, PPI have been designing and implementing successful proprietary oxygen sparge solutions since 2014.

From the PPI Valves maintenance facility on the Queensland Sunshine Coast, we design and manufacture autoclave sparges to address blockages and reliability issues for POX autoclaves. With extensive experience in autoclave commissioning and maintenance, our designs are customised for each operation to ensure a design that exceeds the site safety, process and shutdown maintenance requirements.

With our existing valve servicing and certified oxygen cleaning capabilities, PPI Valves can provide new sparges as well as servicing and maintaining sparges as part of a full rotatable equipment maintenance strategy.

By combining the PPI Valves severe service block valves and sparges, some of the longest running POX autoclave reliability issues, including sparge blockages, isolation valve failures and the mechanism for many past oxygen system fires can be solved. For new autoclave designs, these customised solutions can be specified during the design phase. For existing operations, site-specific designs minimise the requirement for site pipe and flange changes, while ensuring that all operational and safety needs are met.

