



*It's all about the service, always.*



Mining



Electricity



Petrochem



Oil



LNG



Defence



Food



Water



NATA accredited Subject Matter Expertise.



Hydrostatic and Pneumatic Pressure Testing.



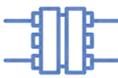
Pigging and Procedures for Cleaning of Pipelines.



Chemical Cleaning and Oil Flushing.



Nitrogen Purging and Helium Leak-Testing.



Flange Management.



Valve Services.



Accreditation Number:  
20990

Presio deliver\_ *With expertise.*



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20990

Presio is NATA accredited and independently owned company, focused on providing reliable and quality assured services.

Through extensive in-house training and on site experience, the Presio team have the skills, experience and qualifications required to provide compliant, innovative and practical solutions that are tailored to project specific business requirements.

Applying benchmark test practices and methodology; Presio remain the leaders in the pressure testing industry.



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## Presio summary\_

Presio is focused on providing a range of quality pre-commissioning services which has established a reputation for excellence to the energy, construction, mining and water treatment sectors.

## Presio expertise\_

Presio understand that our success is dependent upon the success of our clients. No matter the scale of your project, whether it is for a day, a month or a year, we provide the same high level of expertise and service.

As a NATA accredited company Presio are able to meet our clients' needs on and off site.

## Presio capabilities\_

Presio deliver all necessary equipment, procedures and trained personnel to meet your pressure testing and related needs.

HSE and Quality are primary considerations on all jobs undertaken and we continually strive to Improve on all aspects of operation.

With over 150 years of combined industry experience, Presio staff are highly regarded within the industry and our team members are highly sought after by all of our customers and competitors.



 **PRESIO\_**  
*Vital to your project*

:Consult.

**NATA accredited Subject Matter Expertise.**

Long-standing regulatory and compliance knowledge and robust application of full-scope procedures for construction, pre-commissioning, shutdowns, operations and decommissioning.

Method and programme-strategy design for a timely and safe outcome.

:Test.

**Hydrostatic and Pneumatic Pressure Testing.**

Compliant strength, leak and pressure tests carried out at workshops or your project site for spools, pipelines and vessels in the energy, minerals, utilities, petrochemicals and food sectors.

:PIG.

**Pigs and Procedures for Cleaning, Gauging Prior to Hydrostatic Testing of Pipelines.**

To ensure compliance and effective planning prior to pressure testing.

:Clean.

**Chemical Cleaning and Oil Flushing.**

For removal of rust contamination and particulates from pipework and related assets that cannot otherwise be cleaned by flushing.

Expertise in method design in application of various oils, water-glycol and similar is where Presio again adds value.

:Purge.

**Nitrogen Purging and Helium Leak-Testing.**

Competency with expertise in utilisation of cryogenic and nitrogen membrane assemblies.

:Flange.

**Flange Management.**

Employing a 'single-source' for all data is essential to allow for informed decisions pertaining to flange register, bolting calculations, work instruction procedures matched to an auditable electronic record that includes P&ID's and ISO drawings by location.

:Valve.

**Valve Services.**

Valves play a critical role in complex processes, so proper validation of operating condition, routine testing and calibration is crucial.

Where Presio are.



Presio work throughout Australia.

Carbon Steel - Stainless Steel - HDPE - MSCL

Presio deliver **capability.**



**What we deliver:**

- Pressure Testing - Hydrostatic / Pneumatic
- Pressure Relief Valves: repair, set and certify
- N2 Helium Leak Detection
- Chemical Cleaning, including Pickling and Passivation
- Lube Oil Flushing
- Desiccant Drying
- Vacuum Drying
- Line Shock Air Blowing
- Pigging
- Bolt Torquing & Tensioning
- In-Situ Flange Face Machining
- Pipeline Gauging, Pigging and Testing
- Nitrogen Purging and Blanketing
- Pre-Commissioning and Commissioning
- Test Pack Development and Tracking
- Project QA/QC, Support and Integration

Presio **The specialist**

Presio are the specialist in all aspects of hydrotesting, chemical-cleaning flange-management for valves, spools, vessels and pipelines for fluid/gas transfer and cable protection.

Presio is an Australian privately owned and operated company delivering workshop and project support to all process-intensive sectors

Working directly with operators, head-contractors, project managers and engineers, Presio capabilities ensure your assets are brought into service safely, efficiently and cost-effectively.

Presio are simply the benchmark for the service we provide; whether you need insight on testing compliance, technical support, supervision for your team or a fully-equipped crew with all necessary site support for your construction project.



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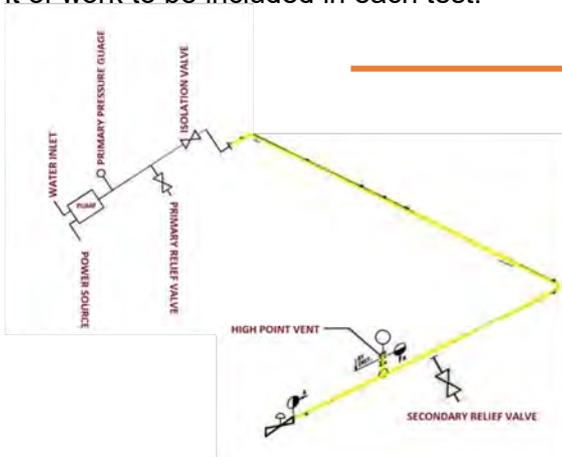
## Informed planning with efficient performance *with confidence.*

Hydrostatic pressure-testing test-packs form an integral part of all process-system pre-commissioning schedules. Effective coordination and preparation with project stakeholders frequently results in accurate and timely planning.

This is where Presio add further expertise and efficiency to your project schedule.

A hydrostatic pressure test pack typically contains documentation, checklists, and records related to the pressure testing of a piping system or pressure vessel. This includes items like test reports, welding records, inspection reports, and details on test limits, blinds, fill/drain points, gauges, and any special requirements.

To reduce the number of tests, system test packages are defined for each test system; examples are shown on a pressure test diagram; based on the P&IDs (Piping and Instrument Diagrams) or Isometric drawings showing the extent of work to be included in each test.



### Test-packs: what are they?

A test pack is a comprehensive document used during the Pre-commissioning phase of a project serving as a formal documented record that ensures all systems are tested, verified, and ready for operation before handover to the owner or client.

### What is their purpose?

1. Compliance with the overall project commissioning process. Presio test packs fit within the Commissioning packs to allow progressive efficient hand over of systems for Commissioning.
2. Ensures that all necessary documentation related to a specific test pack is consolidated for reference throughout the testing.
3. Allows quick and easy access / understanding of what and how the works were completed.
4. Lists all isolations required for the test and allows a master isolations MTO to be accurately compiled for the project. This can save invaluable time during the project as all isolations are known and on site.
5. Generally includes pre & post test punch lists as well as isolations register, ITP, test, flushing and drying reports/signoffs etc.
6. All test packs are marked up on Master P&ID's & Test Pack register to ensure all piping has been tested & signed off
7. Forms part of the Project MDR at completion

Test-packs are essential documents that provide a structured approach and documented evidence to equipment and systems verification, serving as both a testing guide and future reference document.

# Presio pre-commissioning *experience.*



## Seamless LNG Commissioning and Startup *with confidence.*

Presio services are as varied as your project requires. Integrating these can reduce personnel numbers through a multi-skilled strategy.

Presio deliver hydrostatic testing, nitrogen purging, helium leak testing, bolt tensioning and torquing, chemical-cleaning, lube-oil flushing, high-velocity flushing and drying with air, nitrogen, or vacuum for spools, pipelines, valves and pressure-vessels.

## Planning for effective performance *with consistency*

1. Scope is defined, agreed and understood.
2. Verified Isometrics and P&ID's are issued to inform test-packs.
3. Test-packs are prepared in conjunction with operational teams
4. Established interfacing and communication for efficient performance.
5. Work collaboratively with all involved; individuals, teams and contractors.



### What Presio deliver:

- You expect your contractor-partners to arrive equipped, prepared and enthusiastic to get your project online; leak-free, safely and efficiently.
- You expect combined expertise and experience to be prepared for an agreed scope and adaptable to changes.
- You expect partners who are great to work with, are supportive of others in the project team and are motivated by exceptional service.



## Chemical cleaning of steel fabricated spools, pipelines, valves, pressure vessels and tanks.

### 1. Define your project scope requirements - why chemical cleaning is necessary:

The object of chemical cleaning of steel piping is to remove internal contaminants that may include loose rust, dislodging the burs welding slag and mill scales adhering to the internal surface of the pipeline.

### 2. Design the cleaning method for the materials - citric acid solutions:

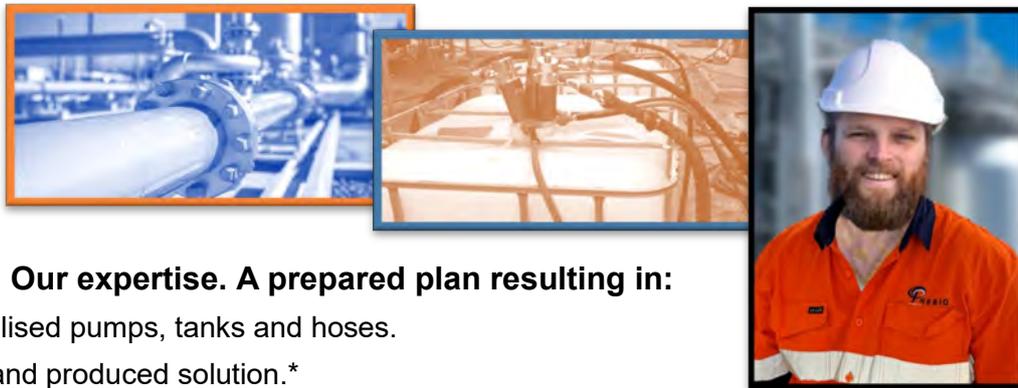
This is a superior method in all aspects; a safe and effective alternative to traditional pickling solutions like nitric and hydrofluoric acids for cleaning steel fabricated spools.

This solution can be used to remove light scale residues and can also be used for passivation.

### 3. Deliver complete service - effective, safe and compliant:

Citric acid solutions are a safe and effective alternative to traditional pickling solutions like nitric and hydrofluoric acids for cleaning steel fabricated spools. Ammoniated citric acid is considered safer to handle than traditional pickling solutions requiring less stringent PPE for the entire process including disposal.

These solutions can be more environmentally friendly as utilisation does not produce noxious odours (as sulphuric acid does), the used solution is treated to neutralize the pH allowing for simpler, lower-cost disposal processes.



### Your defined scope. Our expertise. A prepared plan resulting in:

- All necessary specialised pumps, tanks and hoses.
- Site-specific media and produced solution.\*
- Handling for cleaning programme.
- Collection and disposal of used cleaning solution to satisfy compliance requirements.\*\*
  - This includes several options:
    - Add neutralizing media to reduce pH allowing for drainage disposal
    - Evaporation via high-capacity storage pond or powered-evaporation unit

#### Before and after:

Flushing with water, or blowing with air, to remove dirt, dust, loose rust and any foreign material, and to dry treated area post-clean (if required).

\* Contaminated media containment and disposal alternatives are site-specific.

\*\* Defined disposal method inclusive in cleaning programme design.

## Flange management, torquing and tensioning *leak-free start-up.*

Critical to ensure a reliable start-up for your project.

1. To Identify, Track and Maintain flanged connections.
2. To ensure the Safety, Reliability and Integrity of your piping system.
3. To baseline your MDR with Credible, Verifiable and Auditable data.



What Presio deliver:

- Competent and equipped personnel
- Tooling and bolt loads recorded for register entry
- Work Pack Development
- Create flange register detailing joint unique identifier.
- Joint tagging prior to works commencing
- Data coordination with site lead by 'responsible person'.
- All necessary equipment for bolt torquing, tensioning, gasket applications provided.
- Support for data integration for MDR completion.

### **Flange Identification and Documentation**

- Accurate and reliable documentation is crucial for tracking flange history and status.

### **Gasket Selection and Installation**

- Application relevant gasket selection consistent with procedures to ensure a secure and leak-free seal.

### **Bolt Tightening and Torqueing**

- Methodology consistent with manufacturer recommendations for bolt tightening and torqueing.

### **Flange Marking and Tagging**

- Accurate marking for ease of identification for entire 'life-of-asset'.

# Presio oil-flushing *with competence.*



**Lube oil flushing** in process plant equipment is a cleaning method to remove contaminants like dirt, residue, and construction debris from oil systems, preventing damage to bearings and other sensitive equipment. It's crucial for new equipment installations and during turnarounds to ensure trouble-free operation.

It may be prudent to chemically-clean the target assets prior to oil flushing.

**Flushing Tactics.** These are single discrete activities directed at removing unwanted deposits, sediment and risk-prone fluid suspensions.

**Flushing Strategies.** Strategies are a program of one or more tactics and related steps needed to achieve a complete and successful flush.

### Common Contaminants:

- Pipe scale
- Metal shavings
- Water
- Welding slag
- Dirt and dust
- Construction debris

### Why is Lube Oil Flushing Important?

**Preventing Damage:** Contaminants in lube oil systems can cause significant damage to bearings and other critical components, leading to premature failure and costly repairs.

**Ensuring Trouble-Free Start-Up:** Flushing before initial operation helps remove construction debris and other contaminants, ensuring a smooth and reliable start-up for new equipment.

**Maintaining Equipment Reliability:** Regular flushing helps maintain the cleanliness of the oil system, which is crucial for the long-term reliability and lifespan of the equipment.

**Addressing Contamination:** Contaminants can enter lube oil systems during construction, commissioning, repairs, and even during normal operation, so regular flushing is necessary to address these issues.

The development of procedures and flush pack preparation are an integral part of our oil flushing service of lube oil and hydraulic oil systems and hydraulic operating and control valve systems.

### Flushing Rig – 1070 LPM

The flushing rig is designed to be used in flushing applications where flow rates up to 1070L/min are required.



# Presio deliver pipelines: Pilbara, W.A.



Reduce costs, improve project timeframes and increase scheduling certainty.

It is our unique combination of experience, expertise and integrated capabilities that turns complex data into intelligent and context rich planning.

Eliminating delays through effective planning, effective interfacing and connected Information sharing.



Together we can make the difference through improving and implementing these practices. Presio have seen the positive impact on early contractor engagement measured in days, not hours - In hundreds of thousands of dollars.

Support in all aspects of test pack design, scope review and delivery planning through to regulatory compliance and accredited report test validation.

When you consider your test partner, consider Presio.



Paul Newbound: Owner, M.D. and Technical Authority.

Hydrostatic and Pneumatic Pressure Testing. Chemical Cleaning and oil flushing.  
PSV Testing and Certification. Flange management  
Nitrogen purging and Helium leak testing. Air Blowing and line Drying.

**PRESIO**  
Service. Experience. Expertise.

**NATA** AUSTRALIAN OWNED & OPERATED

*It's all about the service.*



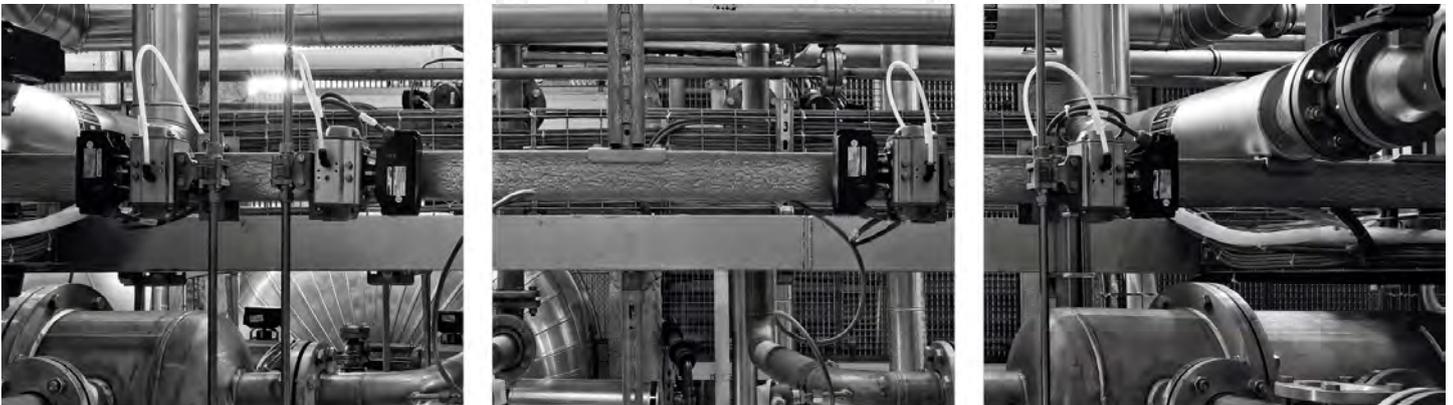
## Presio\_a remarkable set of skills.



**Presio\_an Innovative partner**, specialised with a proven track record on mega-projects and stand-alone plants in minerals and energy, utilities and petrochemical sectors.

**Presio\_invest** in a strong culture that fosters collaboration, professional development, passion, and pride in how we work so you get the value you expect, the performance you require and the outcome you need.

- **An exceptional company** with capabilities to deliver your project onsite or workshop.
- **An exceptional insight** in to standards to ensure your assets are compliant.
- **An exceptional team** with dedicated competencies, broad experience and culture to add to your expectations.
- **An exceptional performance** to achieve outcomes with safety and efficiency as our first measures.
- **An exceptional result** that delivers value every time.



## Presio\_focus on Service

*Culture reflects the collective values and beliefs that guide Presio' attitudes and behaviours. Our culture is anchored in our mindset. Mindset is everything. It is the intangible competitive advantage that drives Presio' success. When a positive and purposeful culture is effectively nurtured, it can unleash vast amounts of energy towards a shared mission.*

## Presio\_values reflect our culture:

**Integrity:** We say what we mean, and we do what we say. We fulfill our commitments, we are candid with our partners and teammates, and we hold ourselves accountable.

**Leadership:** We focus on solutions-driven teamwork. We listen, are forward-thinking, and share Information openly.

**Dedication:** As one team we are relentlessly driven and enthusiastic in our pursuit of performance and knowledge. We take pride in the quality of our work and in contributing to the success of those around us.

**Excellence:** We strive for the highest level of execution in all aspects of our work. We seek to identify root causes, generate new ideas, and minimise complexity.



# PRESIO

Let's talk.

