

# Capabilities 2025



Valve servicing, Pressure testing, modifications & Sales

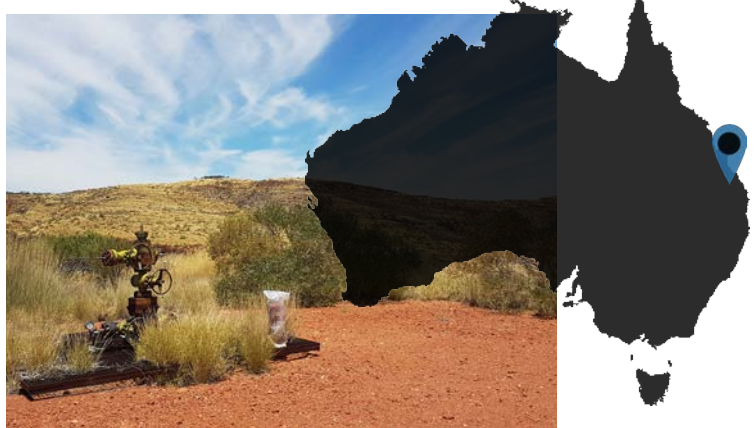
# About COGO Engineering

Cogo Engineering strives to deliver reliable onsite services, with a focus on valve management.

With over 12 years industry experience in:

- Oil and gas
- Power generation
- Alumina Refinery
- Petrochemical
- Water management

Cogo engineering is a locally owned And operated business, With a workshop located in Gladstone Queensland and the ability to Mobilize anywhere in Australia.



COGO Engineering can provide the following services to your project, shutdown or day to day Maintenance

## Valve / Actuator servicing

### **Consulting and QA**

- 3rd party Quality Assurance.
- Commissioning and calibration.
- Condition surveys.
- Shutdown planning.
- Procurement.

### **Valve Overhaul and testing**

- Control valve overhaul, Trim upgrades and Refurbishment.
- Isolation valves (Ball, butterfly, gate, check, diaphragm, Globe, ect).
- Fuel Gas and Min Flow Regulators.
- In-Situ PSV Overhaul to OEM procedures (Drum and Super Heated Steam Safes)
- Testing of all valves to relevant industry standards and OEM specifications.
- Instrumentation and positioner renewal, overhaul, upgrades, and Calibration.
- Actuator testing, overhaul and calibration (Pneumatic, electric, hydraulic).
- Pressure safety valve overhaul and bench testing.
- Tube bending and compression lock fitting installation.

### **Online valve maintenance**

- Non-intrusive fabric maintenance.
- Leak sealing, flushing and lubrication.
- Regulator setting and tuning.
- In-situ PSV testing (Trevi Test).



### **Pressure Testing**

- Hydrostatic pressure testing capable of 20 000psi.
- N2/ HP pneumatic testing capable of 6000psi.
- New construction and welded joint integrity testing.
- Small pipeline hydrostatic testing
- Singular weld test plug solutions.





# Onsite Services

## **Mobile workshop**

- Portable dual axle trailer capable of being mobilized to site in rapid response.
- Equipped with General tooling and work benches.
- Torque equipment.
- Hydrostatic test rig capable of 20000psi.
- N2 testing capable of 6000Psi.
- Jib crane.
- Pressure safety valve test clamp ½" to 12" capable
- Lathe 300mm swing x 900mm between centers.
- Welding Capabilities.



## On-site machining

### **Flange Facing**

- Capable to machine from ½" to 72" NB
- RTJ and hub connection dimensional analysis and machining
- Innovative solutions for machining in tight and hard to reach locations

### **Boring and Lapping**

- Capable of machining valve internals onsite, including machining welded safety valve nozzles back to OEM tolerances.
- Bespoke internal boring and facing solutions
- Lapping jigs for Gate and globe valves

### **Other**

- Clam shell cutting
- Pipe beveling
- Mag drilling



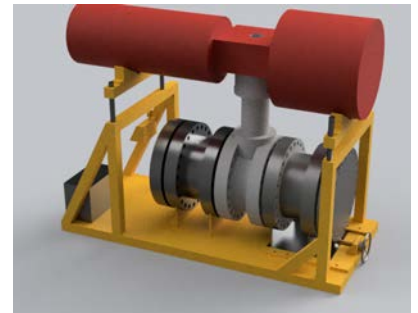
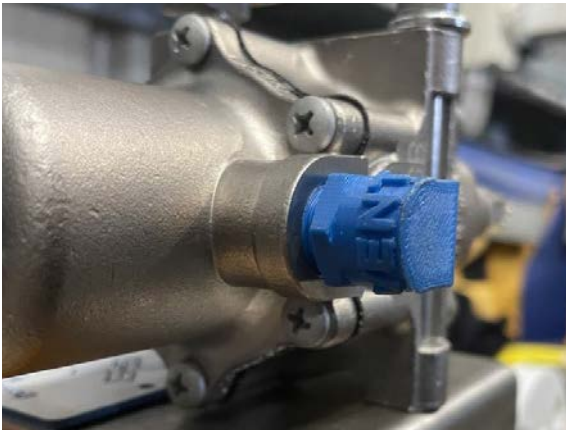
## Onsite Services - continued

### ***Additional support***

- Flange management Including Manual, Hydraulic Torquing and Tensioning.
- General Fitting Support (Pumps, Conveyors, Hydraulics).
- Heat Exchanger Repairs and servicing
- Logistics Support
- 7500GVM Tray Truck

### ***Design and Manufacture***

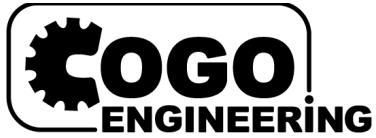
- Reverse engineering for obsolete parts.
- Local manufacturing for reduced lead times.
- Computer aided design / drafting.
- Custom valve fixtures, machining jigs and transport frames.
- 3D printing and prototyping.



### ***Training***

***Cogo Engineering can also provide tailored lessons and mentoring in the below topics:***

- Valve, Actuator and PSV (troubleshooting, diagnosis and overhaul)
- On-site Machining (use of Flange Machining Equipment)



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