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## **Bolting Services:**

Both Hydraulic Bolt Torqueing and Hydraulic Bolt Tensioning methods are combined with our Bolt Calculation Software to implement and ensure precise bolt loads. Both methods are utilised by our competent and fully trained Service Technicians who are qualified to the relevant ECITB industry standards. Our Technicians use the most advanced, reliable and versatile equipment in the industry combined with full technical support to provide our clients with the highest quality of service.

When these services are combined with our Joint Integrity Management System we can offer our clients planning and traceability ensuring a safe and environmentally sound leak free start up.

Services offered includes but not limited to:-

Hydraulic Bolt Tensioning, Hydraulic Bolt Torquing  
Nut Splitting, Hydraulic Flange Spreading  
Ultrasonic Bolt Monitoring System  
Joint Integrity Management  
Flange Facing

## **Hydrostatic Testing Services:**

Hydrostatic Testing is used to test components for leaks and defects by pressurizing them inside mostly with a liquid.

This testing method can be used on piping, tanks, valves and containers with welded or flanged sections. Testing could be performed in accordance with the latest revision and addenda of ANSI/ASME B31.3/ NEN3650/ PD 8010 / TuV or by project specific requirements.

NOTE: Hydrostatic Testing can be a non-destructive test or a destructive test (a burst test).



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Hydrostatic Testing requires that a component be completely filled with a liquid such as water.

Pressure is slowly applied to the liquid until the required pressure is reached; this pressure is held for the required time; at which point the component is inspected to locate leaks or defects.

The basic test pack is generated from the isometric drawing.

**Hydrostatic-testing Calculations:**

System/Pipe Total Volume

Weight of Test Medium

Volume of Test Medium required to achieve Test Pressure

Effect of Temperature on Test Pressure