Nitrogen Leakage Service

We provide a range of nitrogen services including nitrogen purging and nitrogen/helium (N2/He) leak testing to production installations and pipelines offshore and to petrochemical, LNG, refining, power generation and process plants onshore.

These services are provided during the commissioning phases of new constructions, or following modification and upgrade during the operations and maintenance phase of existing process piping or plant. Our scope of work includes; purging during shut down and maintenance programmes, leak testing of new process plant and systems, system shut down, maintenance or modification. We also test run and start up of compressors ‘live simulation’ and commissioning of pipelines.

We are one of the leading companies for the provision of nitrogen helium testing and our fleet, which includes nitrogen converters, single skids, split skids, pumps, tanks, testing equipment, vapourisers and other ancillary equipment, is one of the newest and largest in the industry. All equipment is certified for both onshore and offshore operations and with the significant investment we have made in technology we believe reliability is our real differentiator; reducing risk of breakdown during critical path operations. We supply latest technology handheld leak detection equipment which does not require A60 cabins (freeing up valuable deckspace), reduces personnel requirements, improves safety and reduces cost and time without impacting on quality. Traditional mass-spectrometers can be also be supplied depending on requirement.

Our Nitrogen Services complies our other process services and multi-disciplined personnel to offer a complete Integrated Services offering and a Leak Free Guarantee.

At COSCO SHIPPING Maritime Technology we provide professional flange management and joint integrity programs on both construction and maintenance projects across the energy and infrastructure sector.

We fully understand the environmental and economic factors that drive the requirement of leak free systems. In recent years, the management of bolted flange connection has been highlighted as a major factor in reducing leaks and fugitive emissions.

Our track record of consistently achieving a high percentage of ‘Leak Free’ joints is unmatched and we offer our customers a leak free guarantee, meaning that if it does leak, we will fix it at our own cost. This benefits our customers certainty on cost, maximises plant uptime and improves health, safety and environmental performance.

An integral part to the successful management of bolted flange connections is the technical information that is provided to our technicians.

Our software calculates precise data, which takes into account considerations such as flange type, gasket type, bolt material and lubricant coefficient. As well as supplying this accurate data our system gives our client peace of mind with full traceability of works carried out. All technical and mechanical data is compiled during all operations and gives critical time saving information for future planning of maintenance, shutdowns and outages.

Joint-Pro software considers Joint integrity including Flange Management on an end to end basis. It is real time, web based and designed for life of asset use. As well as adding value the use of Joint-Pro software saves our customers money.

Functionality features include flange management, multi-tool bolt calculator, full joint history, linkage and overlay capability for all construction, precommissioning and shutdown activities, live data feed, electronic work pack and report generation, video and pdf holding and automated change function.

The software can be utilised across various assets and locations at the construction stage and then easily consolidated during the hook-up phase ready for operations.