Flange management and joint integrity

High Performance Sealing Technology

Image courtesy of Paul Odijie
Our expertise extends beyond our products. Through our commitment to rigorous testing and continuous improvement, we stay at the forefront of technology and offer our customers a unique and customised service tailored to their requirements.

Whether that be an extensive proof-test loading programme, an audit and evaluation of on-site joints or our complete flange management service, our experts work in partnership with customers to solve any bolting related issues in a wide range of applications.

We ensure the highest levels of product performance and value through a proven approach of engaging directly with our customers’ experts.

In this way the solutions and products we develop are focused on addressing the root cause of issues and delivering results whilst helping to control maintenance and operational costs.

Since the earliest days of our company, James Walker personnel have won respect for the added value they bring to customers through their innovative thinking.
On-site services

James Walker offers on-site services across a wide range of industries and applications around the world, both on and offshore.

Our experts use data derived from calculations and analysis, as well as their vast expertise built over many years working in close collaboration with customers, to provide solutions for critical bolted joints.

Support for our clients’ most critical applications is provided by offering professional advice on international standards and industry best practices at every stage of construction, installation and maintenance.

James Walker can supply highly trained, competent and certified engineers to oversee the works and ensure that all processes are completed to the highest standards expected of a leading integrity business.

We also supply senior engineers to manage an entire project and if required, provide a turnkey service from initial evaluation to sign-off using industry leading software programmes to ensure total traceability from start to completion of the project.

The service provision covers all aspects of joint integrity management, including but not limited to:

- Inspection
- Evaluation
- Installation
- Supervision
- Joint integrity monitoring
- Project management

and covers all bolted flange connections including:

- Pressure vessels
- Heat exchangers
- Pipework
- Valves
- Gearboxes
- Pumps
- Wind turbines
100% leak free start-up record
Flange management

A fully project managed implementation of products, maintenance and technical support on critical flanges to ensure leak free bolted connections.

Over 30 years of involvement with our customers’ most important bolted connections has allowed us to offer a service that ensures that once joints have been formed, they stay that way; maximising uptime, reducing leaks and keeping expensive product loss to a minimum.

James Walker experience and expertise helps to optimise operational performance and meet the most challenging application conditions using a proven four stage process involving limit analysis software.

This process allows us to calculate the operational stresses of the gasket, fasteners and flanges throughout the operational cycle to create a detailed picture of the most stressed areas and provide a fastener load optimal for the bolted joint in its entirety.

Evaluate
• Historical data collection
• Pressure/temperature media data
• Flange, bolt and gasket details
• Bolted joint evaluation
• Analysis of design in accordance with International Standards (EN 1591-1)

Design
• Product combination and selection
• Determination of optimal sealing parameters
• Recommendations of any flange modifications required
• Accurate establishment of required sealing loads

Apply
• On-site inspection
• Joint dismantling, installation and re-build
• Joint integrity monitoring

Benefits Delivered
• Improved safety
• Reduced downtime
• Assured reliability
• Reduction of lost product
• Leak and emission containment
• Elimination of repetitive maintenance costs
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