



Increasing User Profit Margins

asset55TM
the software behind oil & gas

How iQ can support users in increasing profit margins



Hydrocarbon Release

Using accurate bolt loads and following the correct flange management process are just two elements in reducing hydrocarbon leakage. However, any release has such a massive impact on the environment, company reputation, production, rework etc., that any investment to mitigate the risk of elements under the operator's control will yield large savings.



Damage to Flange Components

In the battle to reduce leaks, tightening flanges using outdated methodologies can cause hidden damage and huge cost to components. iQ provides users with easy-to-use visibility of the impact on components, whilst not compromising the effective sealing of joints.



Schedule Slippage

Overrun in construction projects or shutdown situations generates huge costs. Conversely, reducing time scales can attract large savings. Proactively using iQ to prepare and manage the flange management of any campaign can help to ensure that schedules are met. Additionally, providing users in the field with the ability to make instant and safe decisions when unpredicted events occur (e.g. a failed leak test) can prevent further slippage.



Latest Industry Best Practice

Keeping on top of the latest best practices in the increasingly dynamic area of bolted joint integrity necessitates subscribing to numerous industry standards and bodies. It also requires attending events and obtaining a deep working knowledge of a very specialised area of engineering. We ensure that the iQ system is continuously updated to reflect the very latest industry information. In turn, iQ users are assured they are compliant, whilst mitigating the risk of hydrocarbon release and component damage.



Company Standard Bolt Tables

Many operators create their own bolt load tables for use on their assets. However, the issuing of static, hard copy documents includes some inherent risks on how they are distributed, misinterpreted, revised, and diluted, whilst becoming outdated to the latest industry best practice.

In addition, tables can only cover a relatively small number of flange / gasket / bolt / lubricant combinations before they become unmanageable. These rarely cover all those found on assets, let alone those identified on vendor skids or inherited assets.

The static nature of tables also precludes the capability to quickly assess a revised bolt load in the event of modifications being made (e.g. a failed leak test).

The iQ system not only has the capacity to cover all potential component combinations, it also allows the user to quickly assess any given bolt load scenario, all in line with latest industry standards. Therefore, all an asset's flange eventualities are covered, removing the risk of technicians making inaccurate and unsafe approximations for bolt loads.



Engineering Calculations

Even with the support of internal spreadsheet based solutions, carrying out complex bolt load calculations is both time consuming and subject to error, whilst outputs can be difficult to distribute easily.

iQ users have saved innumerable man hours carrying out sophisticated calculations and scenario-testing across a staggering number of variables to identify the optimum solution.

All calculations can be stored securely online, allowing instant retrieval and review. Additionally, calculations can be distributed efficiently to colleagues or contractors, either through iQ Project modules or simple output reports.



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External Consulting

Even many large engineering teams do not carry specialised expertise in the area of bolted joint integrity.

The iQ system is designed to enable users to easily access our knowledge and industry best practice and instantly receive guidance that would previously necessitated the use of costly external consultants.



Tightening Tool Selection

iQ provides the user with the capability to select from the industry's largest inventory of torque & tension tools to achieve the required bolt load. Helpful and clear guidance on each individual tool's capacity enables the user to create the most effective tool package for any given project.



Information Search

Searching for and retrieving critical flange data can quickly burn numerous man hours and may lead to errors when quick solutions are required.

The iQ system acts as a secure online repository for all joint related information and documents, accessible by all authorised users 24/7 from any location.



Transferring Data

Transferring data from one source to another is not only laborious, but can also be prone to costly mistakes. The iQ system includes numerous auto-populating reports and fully integrated modules that vastly reduce both time and error.

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Asset55 is the global leader in bolting integrity and flange management solutions. Get in touch today to schedule a demonstration of our iQ software, custom-tailored to your organisation's needs.

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