



Benefits of iQ over traditional bolt load tables

The advantages of iQ over traditional bolt load tables

iQ vs traditional flange management

Flange management within the oil and gas industry has not always kept pace with technical developments in other areas, increasing the risk to both safety and cost.

The issues of hydrocarbon leakage, re-work, asset downtime, and damage to flange components are commonly driven by the following contributory factors.



Outdated tables

Tables tend to be updated infrequently as part of full engineering technical practice, and can therefore often be out of date.

iQ is continuously updated in line with industry best practice.



Limited to common components

Tables are inherently restrictive, usually containing just the most common components. This increases the risk when there are any changes on site (e.g. vendor skid, different lubricant, modified flange, etc.)

iQ provides universal libraries of flange, gasket, fastener, and lubricant. iQ can calculate heat exchangers, clamps, special, and modified flanges.



Time consuming searches

There are often many thousands of combinations across numerous tables. Manually searching through them is both time consuming and prone to error.

iQ has easy search / drop-downs that allow quick and accurate selection of variables across a universal range of flanges, gaskets, fasteners, and lubricants.



Lack of traceability

Tables offer no traceability as to why a specific value was selected and by who.

iQ allows individual user accounts providing a clear automated audit trail of all calculations.



Lack of best practice

With tables, it is difficult to check if the values used in field are in line with engineering technical practice.

Our joint integrity review provides the user with an immediate and simple to understand analysis of the risk profile of any given value.



Lack of data integrity

With tables, there is a risk that the original source data is inaccurate / out of date.

iQ offers highly sophisticated calculations that are carried out in line with only the very latest industry best practice.



Inability to sense check data

No way of sense-checking if the correct data was taken from the table.

Our easy-to-view calculator allows the user to quickly sense check selections.



Data integrity risks

Transferring data between documents and systems is both time consuming and prone to error.

With autopopulating documentation and fully interfaced modules, there is no risk of data transfer error.



Replication of work

Manual process for identifying value for each joint is replicated every time it is tightened.

iQ creates an automated joint history allowing instant retrieval of previous information.



Lack of tension values

Tables often provide only a torque value - discounting possibility of tensioning.

Our calculation engine calculates both torque and tension values.



No safe value range

There is no safe value range provided to increase a value if required.

Our joint integrity review provides the user with an immediate and simple to understand analysis of the risk profile of any given value.



Limited collaboration possibilities

Difficult to share with operations or contractors, and can be changed or misinterpreted.

iQ is a cloud-based solution, which allows flexibility to provide access as required.



asset55 ltd, The Beam, Plater Way,
Sunderland, Tyne and Wear,
SR1 3AD, United Kingdom.



www.assetfiftyfive.com



Enquiries: enquiries@assetfiftyfive.com
Sales: sales@assetfiftyfive.com
Support: support@assetfiftyfive.com



Enquiries: +44 (0)191 535 8350
Sales: +44 (0) 191 535 8350
Emergency support: +44 (0) 191 535 8352

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