

Informat Software



Engineered Joint Calculation

Standard Engineering Properties

Method: British American

Material:

Engineered Joint

Joint Configuration:

Joint Type:

Flange Type:

Joint Size / Diameter:

Joint Standard:

Joint Pressure:

Joint Size Diameter:

Flange/Tube Thickness:

Engineering Specification:

Joint Material:

Joint Material 1:

Joint Material 2:

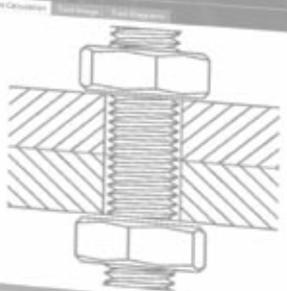
Joint Material 3:

Calculations Output

Joint Size	16.25 mm	7.50E
Joint Thickness	2.00 mm	2.00E-1
Maximum Bolt Length	16.25 mm	3.25E-1
Max. M	10000 psi	4.14E
Modulus of Elasticity	3.12E10 psi	2.16E11
Modulus of Rigidity	1.12E10 psi	4.61E10
Modulus of Volume	41.82E psi	81.80E
Modulus of Poisson	11.16E psi	8.60E-2

Joint Information

Engineered Joint Calculation:



hydratight

Because ensuring a leak-free solution is critical. It has to be Hydratight.

For more than 100 years, Hydratight has provided world-class bolted joint solutions, assessing and managing joints to ensure leak-free start-ups. Today, we continue to set international standards in joint integrity – but we're so much more than just a bolting and on-site machining company.

Because even the tiniest leak can be costly and time consuming to repair, we manage every joint on a project for leak-free start-ups and production, which in turn removes the threat of environmental impact caused by unsafe joints. Safety continues to be the most important aspect of our business. We are a global organization making a real difference to the industries and communities we work in, committed to improving safety, operational efficiency and uptime.

Because you require the support of an innovative partner committed to your success, we not only offer unrivalled service on a global scale, including customer training and software development; but also design and manufacture quality tools and equipment for bolted joint solutions to the highest standards. Our certified teams are dedicated to working closely with you, assessing and managing every joint on your project to prevent leaks from ever occurring, year in, year out.

Because you value safety and reliability, we work to ISO 9001, ISO 14001 and OHSAS 18001 standards in everything we produce from manufacturing torque and tension bolting equipment to mechanical connectors, from in-situ service to creating custom solutions in line with clients' specifications.

It means that whenever you need a complete joint integrity solution, whichever industry sector you're in, you can rely on us to get it 100% right first time, every time. **This is why it has to be Hydratight.**



Engineering Driven Safety Focused Solutions



LRQ 0912064



LRQ 4000352



LRQ 4003099



RQA659747



KLN 4001579



EI2794



Lloyd's Register
Energy

Software is key to true Joint Integrity

In facilities containing critical bolted connections, software plays a key role in creating flawless startups and operations in both new build and maintenance situations. Used in conjunction with competent personnel, our software facilitates one important step in the implementation of a complete Joint Integrity program.

Hydratight pioneered the use of software to support bolting applications more than 10 years ago, and today Hydratight has the most comprehensive suite of Joint Integrity software available. Our suite comprises:

- BoltUP - Our online bolt load calculator
- Informate - Our advanced calculation and procedure software
- iDMS Integrity Data Management System - The complete package for managing bolted joints from cradle to grave



Informat Software, only from Hydratight

Hydratight's Informat Software provides bolt loads and tool pressures on a huge range of flanged joints and clamped connections. Informat's bolt load values are independently verified to ensure leak-free joints, every time.

Know every nut, bolt and joint inside out with Informat Software

Hydratight offers the next generation of software that contains and stores large capacities of engineering calculations with an extensive flange type and material database. Hydratight's Informat Software provides bolt loads and tool pressures on a range of flanged joints and clamp connections. When used with the correct assembly and built-in tightening procedures, the recommended bolt load values are independently verified to deliver leak-free joints.

Informat can be used in virtually any situation

Wherever threaded fasteners need to be tightened in a controlled manner, Hydratight's Informat Software is ideal. You can use this revolutionary software for process piping, including flange and hub connectors and other structural connections.

It can also be used in a variety of other applications:

- Calculating bolt loads and stresses based on Hydratight's recommended values or user defined tightening specifications
- Providing tooling pressures for Hydratight torque and tension equipment
- Analysing existing connections to confirm the effect of altering conditions, such as temperature or tightening method

The software is used extensively within Hydratight but increasingly by a wide range of clients worldwide, often interfacing with maintenance and construction or commissioning management systems.



Why choose Informaté?

The Informaté Software bolt load calculation program allows you to standardise bolted joint calculations to continuously replicate accurate results.

Whether you're operating to Hydratight's recommended values or to a specific company's standard, with Informaté you can analyse standard joints and custom designed joints; create datasheets for supply of information in the field; and even produce Joint Completion Certificates which allow you to track and trace the integrity of mechanical joints.

Standard Calculation Features

Analyse a range of standards to Hydratight's recommended values or customer specified tightening values and produce tool pressures when using Hydratight torque or tension equipment.

Engineered Joint Calculation Features

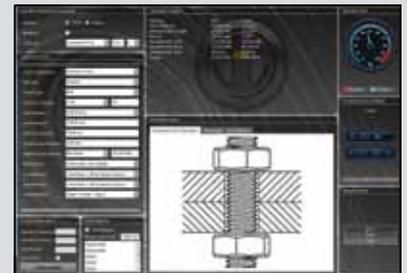
For non-circular or single bolt applications, define your joint configuration and analyse the effect of different tightening specifications on the bolt, as well as generating tooling pressures for Hydratight equipment.

Joint Matrix

For any of the calculation types, Informaté lets you generate matrices of calculations to use again later. You can save, recall and share single calculations or batches of calculations.

Toolbox

Need a fast answer? Informaté's handy toolbox contains a range of useful common calculations to save you valuable time. These include torque value to a bolt load or stress, bolt extension, thread-stripping, or turn of nut.



A range of innovative features

Informate provides you with configurable materials alongside a comprehensive tooling list. All embedded procedures and documents have the flexibility of being either customer specific or to Hydratight standard.

Installed direct to your desktop or accessed via the internet, Hydratight's Informate Software is ideal for use in a variety of industries, including Oil and Gas, Petrochemical, Renewables, Power Generation, Structural, and any other environment that uses bolted joints.

Standard Calculation Features

- ANSI B16.5 flanges up to 609.6mm
- ANSI B16.47 flanges 660.4mm – 1,524mm (Series A and Series B)
- API 6A and 17D flanges
- NORSOK L005 compact flanges
- EN1092 Parts 1-4
- Ability to override tightening specifications with your own custom requirements

Hub Connectors (clamps)

- Vector (Techlok)
- Destec
- Greylok
- SMX
- Galperti

Engineered Joint Calculation Features

Allows for different types of bolted application for non-circular or structural applications.

Extensive Database

Informate Software now contains an even larger range of material and tooling options to allow you to perform accurate calculations on over 100,000 joints.

- Large selection of common lubricants
- 200+ bolting materials
- 500+ flange materials
- 60+ gasket materials



Where can I buy Informaté?

Informaté Software is available in a single version that is configurable to client requirements (quotation upon request). Informaté 2014 offers multiple international standards and the latest and forthcoming regulatory data, when taken with a maintenance package. A 7 day free trial version can be downloaded by registering for a download link at:

<http://www.joint-integrity.com/InformatéMicro>

What are the system requirements?

The recommended hardware requirements are:

- Windows XP or higher
- 2.5Ghz Processor
- 4GB RAM
- 100MB free hard disk space
- Display capable of a minimum of 1024 x 768 resolution (4:3) and 1280 x 720 / 720p (16:9)

Contact the Software Team

If you'd like to discuss your application in more detail, or want more information about Informaté Software, please email us at jointintegrityenquiries@hydratight.com or visit hydratight.com/contact to find your local Hydratight representative.



Scan to view
demo video



Our global network means you can rely on the right people, products and services wherever you are in the world.

Email us at: solutions@hydratight.com
Or find your local representative at:
hydratight.com/contact

