

WILLIAM JOHNSTON
& COMPANY LIMITED

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ISO9001:2015

Allied Distributor



Flexitallic

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The Academy
of Joint Integrity™

A FLEXITALLIC COMPANY

William Johnston & Company Limited has been manufacturing high quality gaskets for a range of industries for nearly 70 years. This unrivalled experience means that we are now one of the leaders in the U.K. market and our products are used in utilities, construction and engineering projects throughout the world. Headquartered in Glasgow, with a branch in Inverness and having many global customers, 60-70 % of the products we supply are delivered out with Scotland.

The Leading Gasket Manufacturers in the UK

With around 30 employees, who are some of the most experienced in the industry, we are currently the largest gasket manufacturers supplying the water, waste water, gas utilities and pipeline industry in the U.K. where we have long term supply agreements in place. Our niche service is the supply of flange sets comprising pipeline gaskets along with the relevant fasteners in a branded set which provides considerable savings in time, cost and waste for the end user. We also distribute to these sectors in Europe, the Middle East and the Far East, and, closer to home, both Inverness and Glasgow branches have been a main supplier to the Scotch whisky industry for over 50 years.



We are the Scottish Allied Distributor for Flexitallic and their subsidiary, The Academy of Joint Integrity. 2



The Flexitallic Group is the international market leader in the manufacture and supply of static sealing solutions, delivering industrial gaskets on a global scale. Developer of the spiral wound gasket in 1912 in the US, Flexitallic has built on this legacy of innovation with revolutionary product materials such as Thermiculite® and Sigma®. Flexitallic has a global customer service network of owned manufacturing facilities, manufacturing licensees and distribution network, with over 750 distributors in 30 countries. This ensures local demand is met quickly, providing a combination of the highest product quality and outstanding customer service

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SPIRAL WOUND GASKET



FLEXIDRAM™



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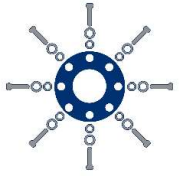


The Academy of Joint Integrity was formed to provide the process industry with access to the best training available, in order to ensure the efficient operation of plant and equipment.

The training courses are aligned to Industry Best Practice, and provide a blend of sealing technology and practical elements associated with flange assembly.

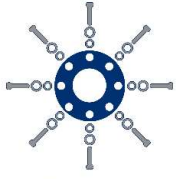
The Academy of Joint Integrity, part of the Flexitallic Group, recognise the importance of independent accreditation to give you peace of mind. They hold two key accreditations and can provide ECITB Mechanical Joint Integrity units, and are also an Energy Institute approved training provider.

Bolted flanged connections have been identified as a potential major safety issue in all industries, whilst ageing assets provide their own challenges in terms of corrosion and maintenance issues. The Academy provides an insight into solutions for these difficult conditions.



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William Johnston & Company Limited supply direct to distilleries owned by the companies detailed below. Ongoing supply and support is offered to the distillery maintenance engineers and the contractors that work with them.

In association with Flexitallic, William Johnston assisted in the development of the Flexidram gasket.

The Flexidram gasket is designed to seal on both steel and stainless steel flanges. It is also FDA, EC1935:2004 and EU10 approved but has the added advantage of Fire rating to API 6FB.

Flexidram gaskets are specified for use on all Diageo spirit lines. **DIAGEO**

Recently used throughout major refit at Whyte & MacKay, Invergordon.



Specified extensively by Pernod Ricard in their extended facility in Dumbarton, it is designed not only to increase pipeline and flange integrity but to reduce fire risk to the plant.



GASKET TYPE SELECTION



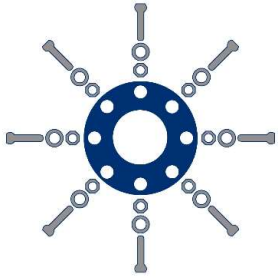
We offer **Teadit 24SH with debossed branding** approved for use by Diageo and Pernod Ricard amongst many others. (A truly FDA, EC1935:2004 and Phthalate free expanded PTFE)
Its malleability is ideal for the low compression offered by stainless steel flanges. Yet it offers “flange integrity”.
Tested and approved VDI 2200 BLOW-OUT-TEST. Full technical back up available from Teadit, Austria.



Due to the increasing availability of inferior products that may look very similar to genuine Teadit 24SH William Johnston and Company Limited in collaboration with Teadit have added a debossed branding to the sheet material. There is no difference in sealing performance or cost. There is however, peace of mind for many of our customers that they are receiving a gasket that is appropriately certified and has been approved for use with their company. No printed branding exists, so no contamination risk!

We have a large range of gasket types to include rubber, PTFE envelope, aramid fibre, semi-metallic and fully metallic. We also offer mouldings and extrusions in rubber which can be FDA compliant if required.

We are happy to work with you to find the right gasket for any application.



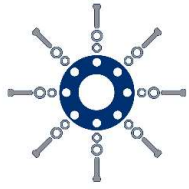
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From steam boiler and pipeline seals, vat seals, spirit line flange gaskets and process seals we can offer a product that is fit for purpose and accordingly certified. Clean valve replacement seals, bottling line wear parts, and bespoke bottling vacuum seals can also be supplied. We have a wealth of experience spanning over 50 years with distilleries, bottling halls and maturation sites.

CORRECT GASKET INSTALLATION IS ESSENTIAL TO ENSURE SAFE OPERATIONS

If the correct gasket is not ordered, or if it is not installed correctly by competent maintenance personnel, the gasket can be the root cause of a major HSE investigated incident.

- Can you provide evidence of competence specific to those involved in assembling bolted flanged connections?
- Are your contractors able to provide competence certification recognised by HSE specific to assembly of bolted flanged connections?
- Do you have a record that displays who is certified to carry out flange gasket installation?
- Do you have a record of the installation torque figure that each gasket requires?
- Do you have a documented make-up/break-up procedure for flange connections?
- Do you record when a flange gasket is installed, by whom and any issues arising with specific flanges?



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APPROVED TRAINING

On site, Energy Institute approved courses can be offered to address all these issues.

A discussion on what you want to achieve and why should be organized.

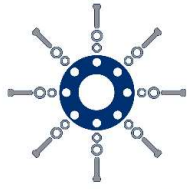
In our experience there are two motivators for training.

- 1) A recent serious breach in containment
- 2) HSE scrutiny particularly due to COMAH status

Either way, we have approved training that will assist you to set the systems in place that you need and to upskill your staff and contractors to a level that will satisfy HSE scrutiny.

"Many thanks for your course delivered onsite last week. The attendees were very complimentary regarding the service and materials covered."

Steven Bremner, William Grant & Sons Distillers Ltd.

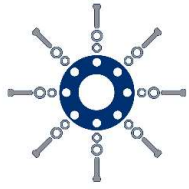


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Below is an outline of the range of subjects we can cover in an Energy Institute approved course. There are other options which is why we welcome your input and embrace the opportunity to become your pipeline flange integrity partner.

Legislation and Industry Guidelines
Gasket/seal specification and storage
Appropriate Flange recognition
Appropriate gasket dimension recognition
Assembling a flange with an expanded PTFE seal
Over loading of bolts and gaskets
External piping system loads
Thermal shock/Water hammer
Inspection of flange faces
Flange alignment
Torque wrenches (selection, use, storage)
Correct bolting sequences, circular pass
Mechanics of Bolting and lubrication
Flange Types and associated gasket styles
Flange Preparation
Flange Assembly
Hand Tightening using Torque
Butterfly Valve/RTJ/O ring installation





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TECHNICAL SUPPORT

Our worldwide engineering staff have the knowledge, experience and insight needed to solve your toughest sealing issues.



We are active in a number of industry organisations and are instrumental in shaping the future of European and American standard organisations. Whether it's customer service at a central location or technical support out in the field, our experts are ready 24/7 to help you with:

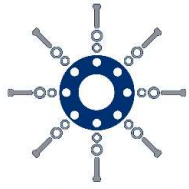


Flexitallic have 5 full-time application engineers who can assist with torque calculations and many other technical issues.

They are the only company in the U.K. to offer this.

Gary Milne – Director of The Academy of Joint Integrity joins them in this picture.

Flexitallic can manufacture all of their materials here in the U.K.



A typical outline of an approved training day on site.

AM

INTRODUCTION

HEALTH & SAFETY

THEORY

GASKET TYPES/STANDARDS & ISSUES

BEST AVAILABLE TECHNIQUES (BAT)

COMMON /SPECIFIC SITE ISSUES

PM

PRACTICAL

EACH CANDIDATE WILL BE SHOWN HOW TO PROPERLY INSTALL A GASKET AND WILL THEN DEMONSTRATE THIS ON THE **FADU** TRAINING RIG

EACH CANDIDATE WILL ALSO SIT A 10 QUESTION EXAMINATION AND ON SUCCESSFUL COMPLETION BE AWARDED A NATIONALLY APPROVED CERTIFICATE WHICH LASTS 3 YEARS

FLANGE ASSEMBLY DEMONSTRATION UNIT

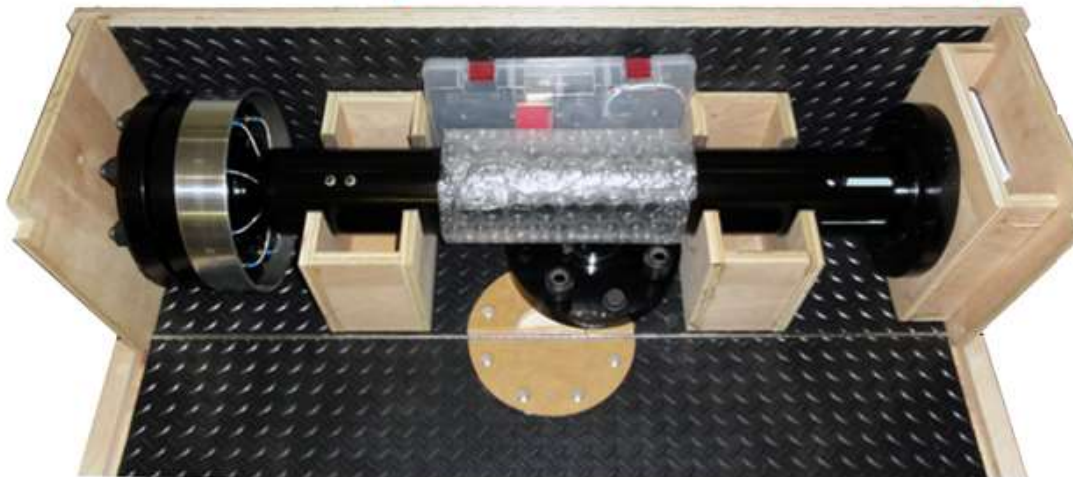
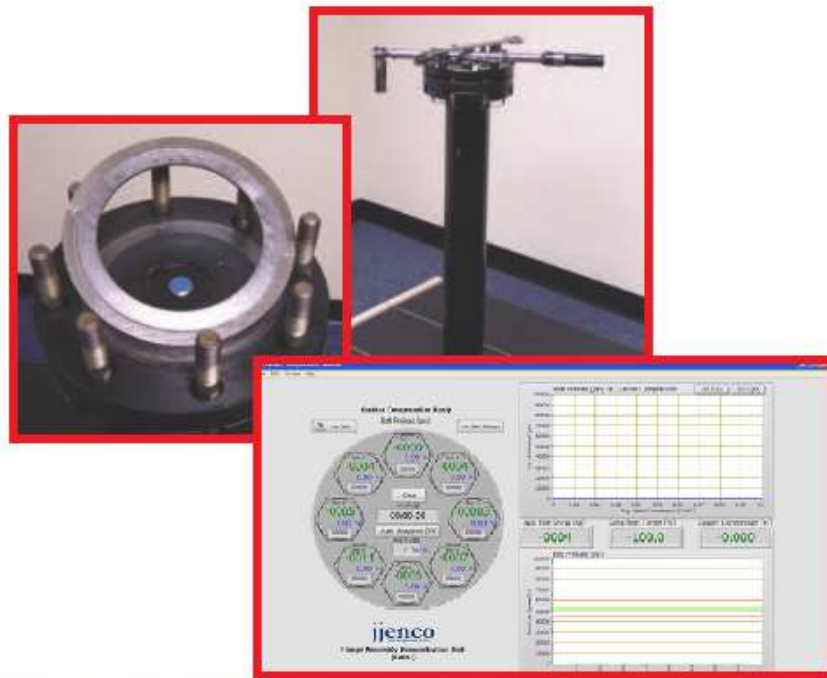
will assist you to understand the proper bolting practices and the affect of improper procedures on your seal.

Leak free joints can be maintained by the use of proper installation procedures. Getting the installation process correct time and again is essential to the integrity of any pipe system.

**REDUCE LEAKS
REDUCE DOWN TIME
SAVE MONEY
DECREASE HEALTH AND SAFETY ISSUES OF BLOW OUT**

The FADU illustrates and allows for:

- ✧ **Hands on skill development**
- ✧ **Elastic interaction of bolts (cross talk)**
- ✧ **Bolt Scatter**
- ✧ **Effects of different bolt procedures**
- ✧ **Effects of different gasket types**
- ✧ **Gasket seating stress related to bolt stress and load**
- ✧ **Gasket response to overloading**
- ✧ **Inward radial buckling**
- ✧ **Effects of bolting with lubricating/wrong lubrication**





Real time visualisation of bolt loading to aid learning.



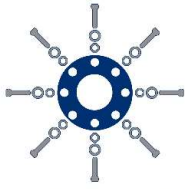
Learn about cross-talk and bolt scatter.



Hands-on practical training.

"We think the FADU is a perfect [training] tool... Its unique graphics display relays real-time loading information in a manner that makes it easy to follow along with and then demonstrate best practices... It's literally a plug n' play setup" - Joel Baulch, Director, Engineering & Technical Services, Teadit.





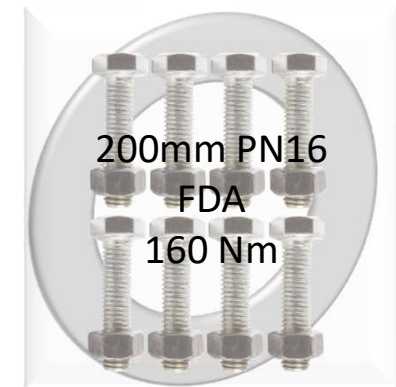
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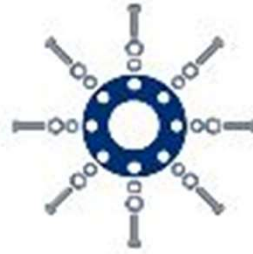
HSE scrutiny will require that your plant engineers, fitters and sub-contractors are aware of the correct torque loading pertinent to;

- 1) The flange pressure class, nominal bore and application.
- 2) The specific type of gasket that is fitted to that line.
- 3) The specific bolt strength, usually 8.8 for steam lines or Stainless steel.
- 4) The specific lubricant used on site for flange connections.
 - We recommend Interflon HT1200 FDA. C.O.F 0.12.
 - A known corrosion inhibitor.
 - Does not dry out.
 - Prevents galling.

5) The importance of correct bolt material strength and size to include diameter and length. 3 visible threads post installation!

We can work with you to ensure that the appropriate gasket/bolts are supplied as a kit thus reducing the risk of error. Each kit can be supplied labelled and detailing torque installation values.





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We would be delighted to arrange a meeting with you to discuss any issues regarding pipe flange gasket installation training, gasket selection, storage, bolting or sealing.

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