

Thomson Industrial Fasteners

# STUDS & NUTS



FLUID CONTAINMENT  
SPECIALISTS SINCE 1967

# THOMSON INDUSTRIAL FASTENERS

## Studs, Nuts & Bolting Products

As an industry leader in manufacturing and supply of gaskets and industrial sealing products, A.R. Thomson Group Inc. has expanded its offering to include a full line of heat-treated alloy studs, bolts, nuts and threaded bar. All of our industrial studs and nuts complement the bolted joint assembly and are manufactured in accordance to the latest editions of ASTM and ASME.



### All Thread Studs

- ASTM A193 Grade B7, B7M, B8, B8M, B16; ASTM A320 Grade B8 C2, B8M C2, L7 and L7M.

### Heavy Hex Nuts

- ASTM A194 Grade 2H, 2HM, 4, 7L, 7LM, 8 and 8M.

### Custom Coatings

- Xylan, Teflon™, Cadmium, Zinc.

### Washers

- ASTM F436 Hardened Steel Flat Washers, Stainless Steel and Belleville Washers.

### Specialty Fabricated & Machined Studs

- Carbon Steel and Stainless Steel (specialty alloys available upon request).

### Thread Lubricant

- Helps control friction and ensures uniform compression of the gasket in the bolted joint assembly.

## Special Bolting

### Applications

- Heat exchanger
- Reactors
- Pressure vessels
- Severe service valves
- European OEM equipment
- High temperature & high pressure

### Materials

- Class 2/strain hardened
- Specialty stainless - 309,310, 317, 321,347, 13-8, 15-5, 17-4, 410
- Inconel - 600, 625, 718, X-750
- Hastalloy - C276, X
- Monel - 400, K500
- Custom alloy steel - B21, B23
- Silicon bronze, aluminum bronze
- Titanium

### Product Types

- Exchanger bolting
- Collar bolt
- Dog point
- Wrench flat
- Reactor bolt
- Indicator stud
- Jack screws
- Din 2510 waisted studs
- Relief/vent groove
- Tommy nuts
- Collar nuts
- Tensioning nuts
- Acorn nuts
- Cap nuts
- Castle nuts
- Spherical washers
- Leveling washers
- Jam nuts
- Custom eye bolts/rod ends





## Total Sealing Integrity: Principles for Ensuring Bolted Joint Reliability

A.R. Thomson Group Inc. has further enhanced its training programs with the addition of the Flange Assembly Demonstration Unit (FADU) training technology. Customers are now able to witness and participate in hands-on technology emphasizing the variables required to ensure the safe, reliable and repeatable performance of bolted joint assemblies.

### Key Advantages of the FADU:

- Real-time data display
- Interactive hands-on experience
- Various comparison calculations automatically provided by the software



### Demonstrations can include:

- Effects of Stud/Nut Lubrication, Stud/Nut Re-Use
- Proper and Improper Bolting Procedures (i.e., Star Pass vs. Single Pass)
- Through Hardened Washers
- Torque vs. Tension

As a proud fluid sealing partner with end users throughout Canada for over 50 years, A.R. Thomson Group Inc. recommends its training sessions to all maintenance and engineering staff responsible with the day to day reliability and integrity of the asset's bolted flanged connections.

Limitation of liability: actual performance may vary and is determined by factors unique to a given application. It is recommended that care be taken in the selection and application of materials for hazardous services and controlled testing be undertaken to determine suitability for a specific application. A.R. Thomson Group Inc. does not make or imply any warranty of suitability for a particular purpose and is not liable for any damages arising from the use of the information in this sheet.

## ARTGI Quality – Incoming Inspection

- Hardness Testing
- Go-No-Go – Thread Pitch
- Dimensional Accuracy
- PMI
- Finish
- Chamfer & Stamping
- Vendor Qualification – Supplier Audits
- Quantity
- MTR Traceability
- Packaging/Labeling
- Third party testing



## Commitment to Quality & Safety



ISO 9001  
QMI-SAI Global



Locations across Canada to serve you. For your nearest branch, please visit: [www.arthomson.com](http://www.arthomson.com)  
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## Other Products



### METALLIC GASKETS

Thomson CANFLEX® spiral wound, camprofile, high temperature, heat exchanger and ring joint gaskets. We manufacture gaskets from all common metals, exotic alloys and filler materials in all configurations for the most extreme applications.



### NON-METALLIC GASKETS

Thomson Performance Sealing (TSP) and gaskets fabricated from all types of sheet material including compressed, cork, cork/rubber blends, gasket types, Teflon™, Garlock®, Gore®, all rubber materials, Thomson Multipac and Flexible Graphite.



### SUPERLOK CANADA

Instrumentation Tube, Pipe, JIC and DIN Fittings. Instrumentation Ball, Bleed, Check, Double Block and Bleed, Needle, Plug, and Purge Relief Valves. Quick Connects and Filters. Flexible Metal Hose, Tubing and Accessories.



### MECHANICAL SEALS

Advanced cartridge and component seals for pumps, mixers, compressors and other rotating equipment. Seal replacements for major brands such as John Crane, Flowserve, AES and more.



The A.R. Thomson Group Inc. was established in 1967 as a regional manufacturer & distributor of gaskets and other fluid containment products. With the rapid growth of oil and gas production, petrochemical, oil refining and pulp and paper industries, our manufacturing facilities expanded to meet increased demand for these products. Since 1967, we have developed our expertise and know-how to become the leader in solving fluid containment problems. No matter what your containment needs are, we can help.



Fluid Containment Specialists Since 1967