

# Totally Documented & Traceable Studbolts

A studbolt can be generally defined as a fastener intended for use on flanges, which is fully threaded and used with a nut at each end. Studbolts are predominantly used in the petrochemical, chemical, mineral processing, oil and gas industries. Typical applications include process piping, heat exchanges, compressor stations and refining processing plants.

Coventry Fasteners is a leading manufacturer and stockist of studbolts for the Australian and overseas markets. Coventry Fasteners' studbolt facility, located in Welshpool (WA), operates to a quality system certified by Det Norske Veritas as meeting the requirements of AS/NZS ISO 9001:2000.

The studbolt facility can offer quick turnarounds, with three hydraulic saws and two chamfering machines. To support prompt production, Coventry Fasteners carry substantial studbolt product, comprising raw materials, bulk nuts and cut to size product.

Studbolts can be finished in a range of coatings, including organic fluoro polymer (PTFE), cadmium plating and hot dipped galvanised. In addition to the standard range, high integrity fasteners in exotic or super alloy materials are available.

The table below details the material grades and diameter ranges available from stock for petrochemical studbolts and nuts:

To maintain product quality, raw materials in the form of alloy bar, nuts and coatings are purchased from leading suppliers who have been formally assessed as meeting the relevant quality standards.

During manufacture, studs are marked to identify them as 'Deltalloy' product and indicate the grade of material. Traceability to raw material used is maintained throughout the manufacturing process and all Deltalloy products can be supplied with full certification for material composition and mechanical properties.

Coventry Fasteners has extensive experience in supplying customised studbolts to the gas, petroleum and chemical industries. Major projects supported over recent years have included the first four LNG trains for Woodside, the Minara Murrin Murrin nickel plant and most recently BHP's Ravensthorpe nickel project.

To support studbolt users, a detailed 'Studbolt Data Book' is available from Coventry Fasteners upon request. The data book contains a wide range of information including available sizes, mechanical properties, tightening torques and temperature and pressure ratings.



Studbolts		Compatible Nuts	
ASTM Material	Diameter Range	ASTM Material	Diameter Range
A193 Grade B7	3/8" to 3 1/2" M10 to M39	A194 Grade 2H	3/8" to 3 1/2" M10 to M39
A193/A320 Grade B8 Class 2	3/8" to 1 1/2"	A194 Grade 8	3/8" to 1 1/2"
A193/A320 Grade B8M Class 2	3/8" to 1 1/2"	A194 Grade 8M	3/8" to 1 1/2"
A193 Grade B16	1/2" to 3 1/2"	A194 Grade 4	1/2" to 3 1/2"
A320 Grade L7	1/2" to 3 1/2"	A194 Grade 4 or 7	1/2" to 3 1/2"

