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ASTM A193/A193M B8 and B8M Class 1
Torque-Tension Guide 1/4 20 0.0318 716
29 in-lbs 33 in-lbs 382 5/16 18 0.0524
1180 629 3/8 16 0.0775 1744 9 ft-lbs 10
ft-lbs 930 7/16 14 0.1063 2392 1276 1/2
13 0.1419 3193 1703 9/16 12 0.1819

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4094 2183 5/8 11 0.2260 5085 2712 3/4
10 0.3345 7525 4014 7/8 9 0.4617
10389 5541 1 8 0.6057 13629 7269 1
1/4 8 0.9997 ...

ASTM A193/A193M B8 and B8M Class 1 Torque-Tension Guide

ASTM A193 Grade B8M is a material specification for high tensile stainless

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steel bolts, stud bolts, screws, threaded rods and similar fasteners, for high temperature applications. ASTM A193 B8M is manufactured from chromium-nickel stainless steel alloy 316 or uns equivalent S31600 under class 1 and 2 with minimum tensile of 75 and 100 ksi respectively.

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ASTM A193 Grade B8M Bolts, Stud Bolts, Fasteners

A193 Grade B8M class 1 bolts are carbide solution treated with maximum tensile strength requirement of 75 ksi or 515 MPa, yield 30 ksi or 205 MPa, and maximum hardness of 223 HBW whereas Grade B8M class 2 bolts are carbide solution treated and strain

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hardened to achieve higher tensile requirement of 110 ksi or 760 MPa and 95 ksi or 655 MPa and maximum hardness of 321 HBW or 35HRC.

ASTM A193 Grade B8M - Boltport Fasteners

ASTM A193 Grade B8M Class 2
Specification for high tensile bolts,

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screws, stud bolts, anchor bolts, threaded rods, round bars and other externally threaded fasteners, made from 316 stainless steel. This specification covers requirements for chemical composition, mechanical properties, heat-treatment, hardness, recommended nuts-washers and markings for B8M Class 2 fasteners.

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ASTM A193 Grade B8M Class 2 Specification - BoltPort

Alignment of flange faces is essential along with control of assembly bolt torque so as not to over-stress the cast iron flanges. Care must also be exercised to ensure that piping loads transmitted to cast iron flanges are

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controled, taking into account its lack of ductility and recognizing that cast iron flanges should not be used where ...

ASTM A193 Grade B8 ASME B16.5 Stud Bolts - Boltport Fasteners

bolting torque table 2a - cold service
astm a320 grade l7 stud bolts. bolting
torque table 3 - use only with a193 b8,

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cl1 bolts at 540°c - 650°c on uninsulated flanges. bolting torque table 4 - use only with 6061-t6 aluminium flanges. bolting torque table 5 - ptfе coated astm a193 b7 and astm 193 b16 stud bolts. bolting torque table 5a - cold ...

Flanges - Bolting Torque Tables - Table 1 - ASTM A193 and ...

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Made from 316 stainless steel, these Grade B8M screws are more corrosion resistant than 18-8 stainless steel screws and have excellent resistance to chemicals and salt water. They may be mildly magnetic. Also known as pressure bolts, these screws meet the high-pressure and high-temperature regulations of ASTM A193 and are used

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to secure pressure tanks, valves, and flanges.

Grade B8M Stainless Steel Bolts | McMaster-Carr

ASTM A193 Grade B7 Torque Chart. $u =$
The coefficient of friction of the lubricant
Figures are a GUIDE only, always consult
the manufacturer or area engineer.

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Torque Chart for ASTM A193 Grade B7
Studs in Ft./Lbs. at 100% of yield

ASTM A193 Grade B7 Torque Chart - Boltport Fasteners

Bolting torque to develop 45% Bolt Yield
Stress at Nut Factor, $K=0.16$ This Table
is applicable to Never-Seize paste and
Fel-Pro lubricant, $K=0.16$. The above

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Table is applicable only for ASTM A193 Grade B8, Class 1 Stud Bolts for use in temperatures above 1000°F (540°C), and up to and including 1200°F (650°C), installed on uninsulated flanges.

**Flange Bolt-Up Bolting Torque Table
3 - wermac.org**
ASTM A193 Grade B7 bolts and threaded

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studs are manufactured from a chromium-molybdenum steel and are quenched and tempered (heat treated) to develop the desired mechanical properties (strength). Grade B7 is the most common grade of A193 bolts used in construction. B7 threaded studs and short, headed bolts are readily available in the marketplace.

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Grades - ASTM A193

ASTM A193 Grade B8 Class 2 Studs, bolts, and other fasteners found in this grade are considered the same as B8 except strain hardened. This is a cold working process which increases physical properties. 100,000-125,000 PSI Tensile Strength.

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Fastener Specifications ASTM A193, A320, A307, A325, A593

ASTM A193 Bolts. The specification for ASTM A193 covers alloy and stainless steel bolting for pressure vessels, valves, flanges, and fittings for high temperature or high pressure service, or other special purpose applications. The

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ASTM A193 specification covers bars, bolts, screws, studs, stud bolts, and wire.

ASTM A193 Bolts Studs and Rods | Atlanta Rod and ...

ASTM A193 Grade B8 Specification.
ASTM A193 Grade B8 specification covers requirements for 304/304L

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stainless steel bolting material with high tensile properties, for use in high temperature or high-pressure service and other special purpose applications.

ASTM A193 Grade B8 Specification - Boltport Fasteners

Lightning Bolt is an ISO 9001 certified fastener manufacturer for ASTM A193

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Grade B8M Class 2 Stud Bolts. In addition to many different sizes and grades of ASTM A193 Grade B8 Stud Bolts, we also carry one of the largest inventories of ASTM A194 Grade 8 & 8M stainless heavy hex nuts in North America.

ASTM A193 Grade B8M Class 2 Stud

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Bolts

ASTM A193 Grade B8m Class 2 is a carbide solution treated and strain hardened 316/316L stainless steel bolting material with maximum tensile strength requirement of 125 ksi or 860 Mpa, yield of 100 ksi or 690 Mpa and hardness of 321 HBW or 35 HRC.

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ASTM A193 Grade B8M Class 2 - Boltport Fasteners

The grade B8M or in this case the ASTM A193 B8M Bolts are manufactured from austenitic stainless steel alloy 316. Per the specification, the astm a193 grade b8m threaded rod is designed to withstand not only high temperature, but also high pressure settings.

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Astm A193 B8m Bolts, B8m Nuts, A193 B8m Stud Bolts, B8m ...

A193-B7 Suggested Assembly Torque Values The tapped hole or nut must have an equal or greater proof load than the stud's minimum ultimate tensile strength. K = friction coefficient. PTFE coatings, lubrication, and assembly

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factors can alter these values. Values in this chart are advisory only, all applications vary.

Suggested Assembly Torque Values - Nuts and Bolts

The Final Torque Value accounts for 10% bolt relaxation. The yield strength for strain-hardened bolts varies with

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diameter. Torque values for bolts greater than 1½ in. diameter are based on 30 ksi yield strength. we provide the fastest delivery for A193 B8 Cl2 Strain Hardened Studs, A193 B8 Class 2 Material, SA193 B8 Class 2 Studs

Astm A193 B8 Class 2 Bolts, Sa193 Grade B8 Class 2 Stud ...

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