

SPECIFICATIONS - DETAILED PROVISIONS
Section 15089 - Nuts & Bolts

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**SECTION 15089
NUTS & BOLTS**

PART 1 - GENERAL

1.01 **REQUIREMENT**

Bolts and nuts for flanged fittings shall be bare steel conforming to SAE J429 Grade 5 or ASTM A449 medium carbon steel quenched and tempered meeting the following requirements, and shall have hex heads and lite-pattern hex nuts.

¼" Through 1" diameter

85,000 p.s.i. proof strength
92,000 p.s.i. yield strength
120,000 p.s.i. tensile strength

Over 1" to 1½" diameter

74,000 p.s.i. proof strength
81,000 p.s.i. yield strength
105,000 p.s.i. tensile strength

1.02 **USE OF ZINC CAPS FOR BURIED PIPE**

Each bolted fitting including couplings, flange adapters, restrained joints, etc. that have manufactured bolts and nuts shall have a minimum of 2 zinc caps anodes as specified below.

Bolt sizes and number of zinc caps:

through 1" diameter - 2 zinc caps
over 1" diameter - 4 zinc caps

Weight of zinc caps:

Zinc caps to be 6 oz. weight.

Material reference:

Zinc caps shall be per ASTM B418-80 and Mil-A-18001J, and be manufactured by Mars, Reliance, or equal.

END OF SECTION 15089

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