

Double End Stud



Threaded stud bolts are used in tension to hold hanging devices or clamp pressure vessels. Stud bolts are also used as anchorage.

Since threading impacts the strength of steel bar, double or single end studs are used when the exact length of thread is known for the application.

When a nut and/or washer is used, choose a compatible material where the proof load of the nut is greater than the tensile strength of the bolt and the washer is through hardened. Be sure that the thread pitch of the nut matches the thread pitch of the bolt.

Available Double End Stud Material

| Specification | Yield |
|----------------------------------|------------------|
| ASTM A307 Gr A | low carbon steel |
| ASTM A36/A 36M | 36 ksi minimum |
| ASTM A108 - 1008/1010 | low carbon steel |
| ASTM A193 Gr B7 (to 2-1/2" dia.) | 105 ksi minimum |
| ASTM A193 Gr B8 Class 1 | 30 ksi minimum |
| ASTM A193 Gr B8M Class 1 | 30 ksi minimum |
| ASTM A242 (to 3/4") | 50 ksi minimum |
| ASTM A242 (3/4 to 1-1/2") | 46 ksi minimum |
| ASTM A588/A 588M | 50 ksi minimum |
| AISI 304 Stainless Steel | 42 ksi minimum |
| AISI 316 Stainless Steel | 42 ksi minimum |
| DIN 975 10.9 | 130 ksi minimum |

Protective Coatings

| Specification | Method of Deposit / Material |
|---------------------------|------------------------------|
| Plain | None |
| ASTM F2329 | Hot Dip Galvanized Zinc |
| ASTM B695 Cl. 55 | Mechanical Galvanized Zinc |
| ASTM B633-07 Type II SC 1 | Electrodeposited Zinc Silver |
| ASTM B633-07 Type II SC 1 | Electrodeposited Zinc Yellow |
| ASTM B696 Ty II Cl 5 | Mechanical Cadmium |
| ASTM B766 Ty II Cl 5 | Electrodeposited Cadmium |

Products manufactured and inspected per Quality System ASME B18.18.4M

Thread Pitch

| Form / Fit / Direction | Type |
|----------------------------|--------------------|
| UNC Class 2A / 2B RH or LH | Cut or Roll Thread |
| UNF Class 2A / 2B RH or LH | Cut or Roll Thread |
| UNC8 Class 2A / 2B RH | Cut or Roll Thread |

Available Nuts

| Specification / Grade / Type | Proof Load |
|------------------------------|-----------------|
| ASTM A563 Gr A Hex | 90 ksi minimum |
| ASTM A563 Gr A Heavy Hex | 90 ksi minimum |
| ASTM A563 Gr C Hex | 144 ksi minimum |
| ASTM A563 Gr D Hex | 150 ksi minimum |
| ASTM A563 Gr DH Heavy Hex | 175 ksi minimum |
| ASTM A563 Gr DH3 Heavy Hex | 175 ksi minimum |
| ASTM A194 Gr 2H Heavy Hex | 175 ksi minimum |
| ASTM A194 Gr 8 Heavy Hex | 80 ksi minimum |
| ASTM A194 Gr 8M Heavy Hex | 80 ksi minimum |
| AISI 304 Stainless Steel Hex | 85 ksi minimum |
| AISI 316 Stainless Steel Hex | 85 ksi minimum |

Ordering Information

Manufactured Per Print