



| THREADS FOR SELF-TAPPING SCREWS TYPE A | | | | | | | | | ASME B18.6.4 |
|---|---------------------|-----------------------|------|----------------|------|--|-----------|--|-----------------|
| Nominal Size or Basic Screw Diameter | Threads Per Inch | D | | d | | L | | Minimum Torsional Strength, lb.-in. (STEEL SCREWS ONLY) | |
| | | Major Diameter | | Minor Diameter | | These Lengths or Shorter Have AB Threads | | | |
| | | Max | Min | Max | Min | 90° Heads | Csk Heads | | |
| 6 | 0.1380 | 18 | .141 | .136 | .102 | .096 | 1/4 | 5/16 | 24 |
| 7 | 0.1510 | 16 | .158 | .152 | .114 | .108 | 5/16 | 3/8 | 30 |
| 8 | 0.1640 | 15 | .168 | .162 | .123 | .116 | 3/8 | 7/16 | 39 |
| 9* | 0.1770 | 14 | .181 | .170 | .130 | .120 | 3/8 | 7/16 | 47 |
| 10 | 0.1900 | 12 | .194 | .188 | .133 | .126 | 3/8 | 1/2 | 48 |
| 12 | 0.2160 | 11 | .221 | .215 | .162 | .155 | 7/16 | 9/16 | 83 |
| 14 | 0.2420 | 10 | .254 | .248 | .185 | .178 | 1/2 | 5/8 | 125 |
| 20 | 0.3200 | 9 | .333 | .327 | .234 | .226 | 11/16 | 13/16 | 250 |
| 24 | 0.3720 | 9 | .390 | .383 | .291 | .282 | 3/4 | 1 | 492 |
| Tolerance on Length | | Up to 1" Incl.: ±0.03 | | | | Over 1": ±0.05 | | | |

* Dimensions for #9 diameter are independent of ASME B18.6.4

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| Description | A thread forming tapping screw with wider spaced threads than a Type-AB and a gimlet point. |
| Applications/ Advantages | For self starting in thin (.015-.050 thick) metal or resin-filled plywood. 18-8 Stainless steel tapping screws may be used in applications which require general atmospheric corrosion resistance. Fastening stainless steel parts to aluminum or steel can cause a type of corrosion known as a galvanic couple in some environments. |
| Material | Steel: AISI 1016 - 1024 or equivalent steel. Stainless: Austenitic 18-8 stainless steel |
| Heat Treatment (Steel only) | Screws shall be quenched in liquid and then tempered by reheating to 650°F minimum. |
| Surface Hardness | Steel: Rockwell C45 minimum |
| Case Depth (Steel only) | No. 6 diameter: .002 - .007 No. 8 thru 12 diameter: .004 - .009 1/4" and larger: .005 - .011 |
| Core Hardness (after tempering) | Steel: Rockwell C28 - 38 |
| Plating | See Appendix-A for information on plating of steel screws. |