



| THREADS FOR SELF-TAPPING SCREWS TYPE A                       |        |                     |                       |      |                |      |                                                |           | ASME<br>B18.6.4                                                        |
|--------------------------------------------------------------|--------|---------------------|-----------------------|------|----------------|------|------------------------------------------------|-----------|------------------------------------------------------------------------|
| Nominal Size or<br>Basic Screw Diameter                      |        | Threads<br>Per Inch | D                     |      | d              |      | L                                              |           | Minimum<br>Torsional<br>Strength,<br>lb.-in. (STEEL<br>SCREWS<br>ONLY) |
|                                                              |        |                     | Major Diameter        |      | Minor Diameter |      | These Lengths or<br>Shorter Have AB<br>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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| <b>Description</b>                         | A thread forming tapping screw with wider spaced threads than a Type-AB and a gimlet point.                                                                                                                                                                                                                                            |
| <b>Applications/<br/>Advantages</b>        | 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. |
| <b>Material</b>                            | <b>Steel:</b> AISI 1016 - 1024 or equivalent steel.<br><b>Stainless:</b> Austenitic 18-8 stainless steel                                                                                                                                                                                                                               |
| <b>Heat Treatment<br/>(Steel only)</b>     | Screws shall be quenched in liquid and then tempered by reheating to 650°F minimum.                                                                                                                                                                                                                                                    |
| <b>Surface Hardness</b>                    | Steel: Rockwell C45 minimum                                                                                                                                                                                                                                                                                                            |
| <b>Case Depth<br/>(Steel only)</b>         | No. 6 diameter: .002 - .007<br>No. 8 thru 12 diameter: .004 - .009<br>1/4" and larger: .005 - .011                                                                                                                                                                                                                                     |
| <b>Core Hardness<br/>(after tempering)</b> | <b>Steel:</b> Rockwell C28 - 38                                                                                                                                                                                                                                                                                                        |
| <b>Plating</b>                             | See Appendix-A for information on plating of steel screws.                                                                                                                                                                                                                                                                             |