



DRIVE SCREWS - ROUND HEAD TYPE U

ANSI B18.6.4

| Nominal Screw Size | Number of Thread Starts | D | | A | | H | | P | | Recommended Hole Size | |
|---------------------|-------------------------|------------------|-------|---------------|-------|-------------|-------|----------------|-------|-----------------------|---------------|
| | | Outside Diameter | | Head Diameter | | Head Height | | Pilot Diameter | | Drill Size No. | Hole Diameter |
| | | Max | Min | Max | Min | Max | Min | Max | Min | | |
| 00 | 6 | .060 | .057 | .099 | .090 | .034 | .026 | .049 | .046 | 55 | .052 |
| 0 | 6 | .075 | .072 | .127 | .118 | .049 | .041 | .063 | .060 | 51 | .067 |
| 2 | 8 | .100 | .097 | .162 | .146 | .069 | .059 | .083 | .080 | 44 | .086 |
| 4 | 7 | .116 | .112 | .211 | .193 | .086 | .075 | .096 | .092 | 37 | .104 |
| 6 | 7 | .140 | .136 | .260 | .240 | .103 | .091 | .116 | .112 | 31 | .120 |
| 7 | 8 | .154 | .150 | .285 | .264 | .111 | .099 | .126 | .122 | 29 | .136 |
| 8 | 8 | .167 | .162 | .309 | .287 | .120 | .107 | .136 | .132 | 27 | .144 |
| 10 | 8 | .182 | .177 | .359 | .334 | .137 | .123 | .150 | .146 | 20 | .161 |
| 12 | 8 | .212 | .206 | .408 | .382 | .153 | .139 | .177 | .173 | 11 | .191 |
| 14 | 9 | .242 | .236 | .457 | .429 | .170 | .155 | .202 | .198 | 2 | .221 |
| L | Nominal Screw Length | 1/8 | 3/16 | 1/4 | 5/16 | 3/8 | 1/2 | 5/8 | 3/4 | 1" and over | |
| Tolerance on Length | | ±0.02 | ±0.02 | ±0.02 | ±0.02 | ±0.02 | ±0.02 | ±0.03 | ±0.03 | ±0.03 | ±0.03 |
| S | Pilot Length | .047 | .047 | .047 | .047 | .062 | .062 | .078 | .078 | .125 | |

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| Description | Round head metallic drive screw having multiple start threads of large helix angle, with a pivot. | |
| Applications/ Advantages | For making permanent fastenings in metals and plastics, when forced into the work under pressure. | |
| Material | Steel | Stainless |
| | AISI 1016 - 1024 or equivalent steel | 18-8 Stainless Steel |
| Heat Treatment | Screws shall be quenched in liquid and then tempered by reheating to 650°F minimum. | - |
| Case Hardness | Rockwell C 45 minimum | - |
| Core Hardness | Rockwell C 28-38 | Rockwell B 100 (approximate) |
| Case Depth | No. 2 through 6 diameter: .002 - .007 No. 7 through 12 diameter: .004 - .009 No. 14 diameter: .006 - .011 | - |
| For Use In | Drive screws shall produce mating threads without shearing of threads or fracture of the screw when driven into properly sized holes in test plates having a Rockwell hardness of B70 to B85. | Not recommended for use in materials of a hardness greater than Rockwell B 65. |
| Plating | See Appendix-A for plating information. | Parts are typically supplied without secondary finishes. |