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REV. D

AS91001™

FEDERAL SUPPLY CLASS
5310

RATIONALE

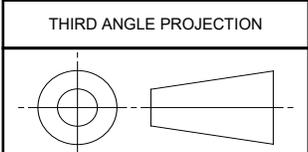
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|----------------|---|---------------------------------|-----------------|
| CUSTODIAN: G-3 | | PROCUREMENT SPECIFICATION: NONE | |
| | AEROSPACE STANDARD | | AS91001™ |
| | NUT, HEXAGON, DRILLED, BOSS CONNECTION, CRES - UNS S30400 | | |

ISSUED 2000-09 REAFFIRMED 2007-06 REVISED 2012-12 STABILIZED 2023-10

NOTICE

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9100B, AMENDMENT 1. THIS SAE STANDARD MAY RETAIN THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

ANY REQUIREMENTS ASSOCIATED WITH QUALIFIED PRODUCTS LISTS (QPL) MAY CONTINUE TO BE MANDATORY FOR DoD CONTRACTS. REQUIREMENTS RELATING TO QPL'S HAVE NOT BEEN ADOPTED BY THE SAE FOR THIS STANDARD AND ARE NOT PART OF THIS SAE DOCUMENT.

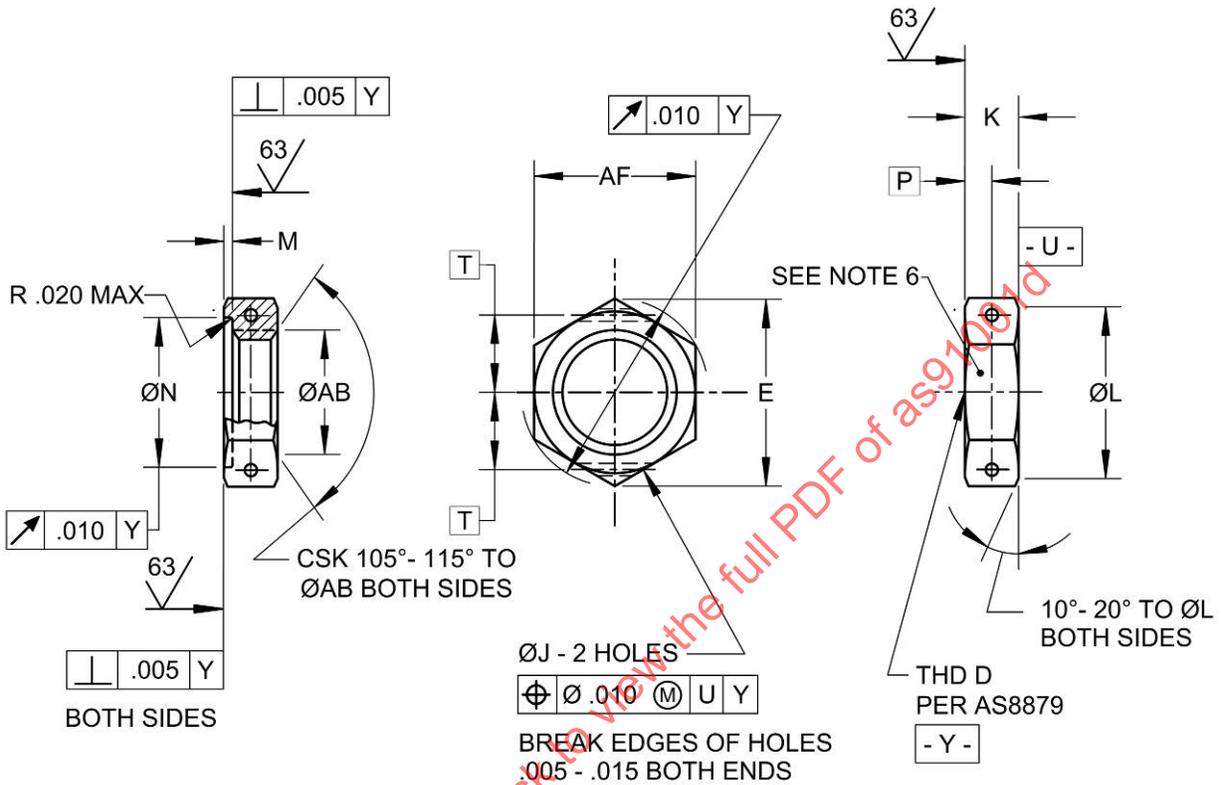


FIGURE 1 - NUT

| | | | |
|---|--|---------------------------------|-------------------------|
|  | AEROSPACE STANDARD | AS91001™ SHEET 1 OF 3 | REV. D |
| | NUT, HEXAGON, DRILLED, BOSS CONNECTION, CRES - UNS S30400 | | |

TABLE 1 - PART NUMBERS AND DIMENSIONS

| PART NUMBER | NOM TUBE OD | D - NOMINAL THREAD | AF | E MIN | ØAB | K |
|-------------|-------------|--------------------|---------------|-------|---------------|-------------|
| MS9100-02 | .125 | .3125-24UNJF-3B | .553 - .564 | .623 | .312 - .332 | .240 - .260 |
| MS9100-03 | .188 | .3750-24UNJF-3B | .616 - .627 | .694 | .375 - .395 | .240 - .260 |
| MS9100-04 | .250 | .4375-20UNJF-3B | .679 - .690 | .766 | .438 - .458 | .271 - .291 |
| MS9100-05 | .312 | .5000-20UNJF-3B | .741 - .752 | .836 | .500 - .520 | .271 - .291 |
| MS9100-06 | .375 | .5625-18UNJF-3B | .803 - .814 | .907 | .562 - .582 | .287 - .307 |
| MS9100-07 | .438 | .6250-18UNJF-3B | .865 - .877 | .978 | .625 - .645 | .287 - .307 |
| MS9100-08 | .500 | .7500-16UNJF-3B | .990 - 1.002 | 1.121 | .750 - .770 | .334 - .354 |
| MS9100-09 | .562 | .8125-16UNJ-3B | 1.052 - 1.064 | 1.191 | .812 - .832 | .334 - .354 |
| MS9100-10 | .625 | .8750-14UNJF-3B | 1.114 - 1.127 | 1.262 | .875 - .895 | .381 - .401 |
| MS9100-11 | .688 | 1.0000-12UNJF-3B | 1.301 - 1.314 | 1.475 | 1.000 - 1.020 | .428 - .448 |
| MS9100-12 | .750 | 1.0625-12UNJ-3B | 1.364 - 1.377 | 1.547 | 1.062 - 1.082 | .428 - .448 |
| MS9100-14 | .875 | 1.1875-12UNJ-3B | 1.489 - 1.502 | 1.690 | 1.188 - 1.208 | .428 - .448 |
| MS9100-16 | 1.000 | 1.3125-12UNJ-3B | 1.614 - 1.627 | 1.833 | 1.312 - 1.332 | .428 - .448 |
| MS9100-18 | 1.125 | 1.5000-12UNJ-3B | 1.800 - 1.814 | 2.045 | 1.500 - 1.520 | .428 - .448 |
| MS9100-20 | 1.250 | 1.6250-12UNJ-3B | 1.926 - 1.940 | 2.189 | 1.625 - 1.645 | .428 - .448 |
| MS9100-24 | 1.500 | 1.8750-12UNJ-3B | 2.176 - 2.190 | 2.474 | 1.875 - 1.895 | .428 - .448 |
| MS9100-28 | 1.750 | 2.2500-12UNJ-3B | 2.549 - 2.564 | 2.899 | 2.250 - 2.270 | .428 - .448 |
| MS9100-32 | 2.000 | 2.5000-12UNJ-3B | 2.799 - 2.814 | 3.185 | 2.500 - 2.520 | .428 - .448 |

TABLE 1 - PART NUMBERS AND DIMENSIONS (CONTINUED)

| PART NUMBER | NOM TUBE OD | ØL MIN | M | ØN | P | T | ØJ | APPROX MASS LB/100 |
|-------------|-------------|--------|-------------|---------------|------|-------|-------------|--------------------|
| MS9100-02 | .125 | .552 | .032 - .042 | .478 - .488 | .125 | .240 | .042 - .052 | 1.28 |
| MS9100-03 | .188 | .615 | .032 - .042 | .541 - .551 | .125 | .240 | .042 - .052 | 1.50 |
| MS9100-04 | .250 | .678 | .037 - .047 | .603 - .613 | .140 | .305 | .042 - .052 | 1.98 |
| MS9100-05 | .312 | .740 | .037 - .047 | .665 - .675 | .140 | .340 | .050 - .060 | 2.21 |
| MS9100-06 | .375 | .802 | .037 - .047 | .728 - .738 | .148 | .370 | .050 - .060 | 2.62 |
| MS9100-07 | .438 | .865 | .037 - .047 | .790 - .800 | .148 | .405 | .050 - .060 | 2.93 |
| MS9100-08 | .500 | .990 | .037 - .047 | .915 - .925 | .172 | .470 | .057 - .067 | 4.10 |
| MS9100-09 | .562 | 1.052 | .037 - .047 | .978 - .988 | .172 | .500 | .057 - .067 | 4.38 |
| MS9100-10 | .625 | 1.115 | .049 - .059 | 1.040 - 1.050 | .195 | .540 | .057 - .067 | 5.49 |
| MS9100-11 | .688 | 1.302 | .049 - .059 | 1.205 - 1.215 | .219 | .625 | .065 - .075 | 8.83 |
| MS9100-12 | .750 | 1.365 | .049 - .059 | 1.290 - 1.300 | .219 | .660 | .065 - .075 | 9.34 |
| MS9100-14 | .875 | 1.490 | .049 - .059 | 1.412 - 1.422 | .219 | .725 | .065 - .075 | 10.50 |
| MS9100-16 | 1.000 | 1.615 | .049 - .059 | 1.536 - 1.546 | .219 | .790 | .065 - .075 | 11.65 |
| MS9100-18 | 1.125 | 1.802 | .049 - .059 | 1.724 - 1.734 | .219 | .890 | .065 - .075 | 13.44 |
| MS9100-20 | 1.250 | 1.928 | .049 - .059 | 1.849 - 1.859 | .219 | .960 | .065 - .075 | 14.78 |
| MS9100-24 | 1.500 | 2.178 | .049 - .059 | 2.099 - 2.109 | .219 | 1.095 | .065 - .075 | 17.36 |
| MS9100-28 | 1.750 | 2.552 | .049 - .059 | 2.473 - 2.483 | .219 | 1.295 | .065 - .075 | 21.48 |
| MS9100-32 | 2.000 | 2.802 | .049 - .059 | 2.723 - 2.733 | .219 | 1.425 | .065 - .075 | 24.40 |