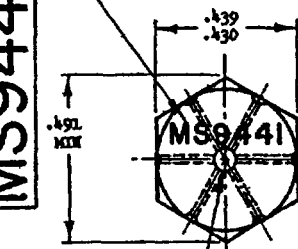


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This standard has been approved by the Department of the Army and is mandatory for use by that activity. All other military activities are required to employ this standard where suitable.

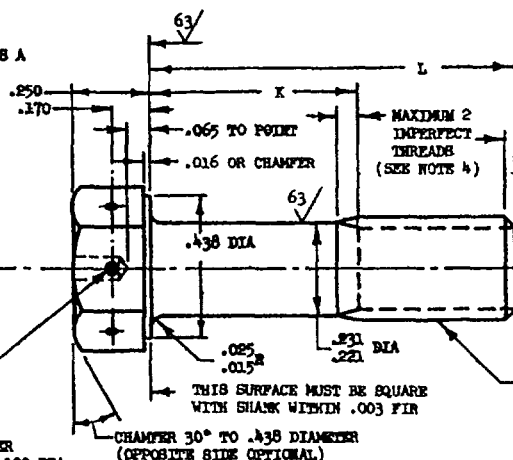
MS9441 (ASG)

MARK MS9441 AND MANUFACTURER'S IDENTIFICATION PER AS 478 CLASS A



.188 DIA TO DEPTH BROWN

.070 DIAMETER
CSK 90° TO .100 DIA
6 HOLES EQUALLY SPACED
AS SHOWN WITHIN .020
OF TRUE POSITION



CHAMFER 30° TO .438 DIAMETER (OPPOSITE SIDE OPTIONAL)

CHAMFER .031 x 45° APPROX.



SECTION THROUGH
THREAD PROFILE

| PART NUMBER | L | K | APPROX WEIGHT LB/100 | PART NUMBER | L | K | APPROX WEIGHT LB/100 |
|-------------|-------|-------------|----------------------|-------------|-------|-------------|----------------------|
| MS9441-04 | .375 | .079-.099 | 1.37 | MS9441-31 | 2.375 | 1.565-1.685 | 3.66 |
| MS9441-05 | .438 | .079-.099 | 1.44 | MS9441-32 | 2.500 | 1.690-1.750 | 3.80 |
| MS9441-06 | .500 | .079-.099 | 1.51 | MS9441-33 | 2.625 | 1.815-1.875 | 3.95 |
| MS9441-07 | .562 | .079-.099 | 1.58 | MS9441-34 | 2.750 | 1.940-2.000 | 4.09 |
| MS9441-08 | .625 | .079-.099 | 1.65 | MS9441-35 | 2.875 | 2.065-2.125 | 4.23 |
| MS9441-09 | .688 | .079-.099 | 1.72 | MS9441-36 | 3.000 | 2.190-2.250 | 4.38 |
| MS9441-10 | .750 | .079-.099 | 1.80 | MS9441-37 | 3.125 | 2.315-2.375 | 4.52 |
| MS9441-11 | .812 | .079-.099 | 1.87 | MS9441-38 | 3.250 | 2.440-2.500 | 4.66 |
| MS9441-12 | .875 | .125-.145 | 1.94 | MS9441-39 | 3.375 | 2.565-2.625 | 4.81 |
| MS9441-13 | .938 | .125-.145 | 2.01 | MS9441-40 | 3.500 | 2.690-2.750 | 4.95 |
| MS9441-14 | 1.000 | .190-.250 | 2.08 | MS9441-41 | 3.625 | 2.815-2.875 | 5.09 |
| MS9441-15 | 1.062 | .252-.312 | 2.15 | MS9441-42 | 3.750 | 2.940-3.000 | 5.24 |
| MS9441-16 | 1.125 | .315-.375 | 2.23 | MS9441-43 | 3.875 | 3.065-3.125 | 5.38 |
| MS9441-17 | 1.188 | .378-.438 | 2.30 | MS9441-44 | 4.000 | 3.190-3.250 | 5.52 |
| MS9441-18 | 1.250 | .440-.500 | 2.37 | MS9441-45 | 4.125 | 3.315-3.375 | 5.67 |
| MS9441-19 | 1.312 | .502-.562 | 2.44 | MS9441-46 | 4.250 | 3.440-3.500 | 5.81 |
| MS9441-20 | 1.375 | .565-.625 | 2.51 | MS9441-47 | 4.375 | 3.565-3.625 | 5.95 |
| MS9441-21 | 1.438 | .628-.688 | 2.58 | MS9441-48 | 4.500 | 3.690-3.750 | 6.10 |
| MS9441-22 | 1.500 | .690-.750 | 2.66 | MS9441-49 | 4.625 | 3.815-3.875 | 6.24 |
| MS9441-23 | 1.562 | .752-.812 | 2.73 | MS9441-50 | 4.750 | 3.940-4.000 | 6.38 |
| MS9441-24 | 1.625 | .815-.875 | 2.80 | MS9441-51 | 4.875 | 4.065-4.125 | 6.53 |
| MS9441-25 | 1.688 | .878-.938 | 2.87 | MS9441-52 | 5.000 | 4.190-4.250 | 6.67 |
| MS9441-26 | 1.750 | .940-1.000 | 2.94 | MS9441-53 | 5.125 | 4.315-4.375 | 6.82 |
| MS9441-27 | 1.875 | 1.065-1.125 | 3.09 | MS9441-54 | 5.250 | 4.440-4.500 | 6.96 |
| MS9441-28 | 2.000 | 1.190-1.250 | 3.23 | MS9441-55 | 5.375 | 4.565-4.625 | 7.10 |
| MS9441-29 | 2.125 | 1.315-1.375 | 3.37 | MS9441-56 | 5.500 | 4.690-4.750 | 7.25 |
| MS9441-30 | 2.250 | 1.440-1.500 | 3.52 | MS9441-57 | 5.625 | 4.815-4.875 | 7.39 |
| | | | | MS9441-58 | 5.750 | 4.940-5.000 | 7.53 |
| | | | | MS9441-59 | 5.875 | 5.065-5.125 | 7.68 |
| | | | | MS9441-60 | 6.000 | 5.190-5.250 | 7.82 |

1. SHANK SHALL BE STRAIGHT WITHIN .003 FIR PER INCH OF BOLT LENGTH.
2. THE CONCENTRICITY OF THREAD PD IN RELATION TO THE SHANK SHALL BE WITHIN .006 FIR.
3. THE CONCENTRICITY OF THE SHANK IN RELATION TO THE WASHER FACE DIAMETER AND HEXAGON SHALL BE WITHIN .013 FIR.
4. INCOMPLETE THREADS NOT TO ENTER FILLET AREA.
5. MATERIAL STEEL AMS 6304.
6. HARDNESS ROCKWELL C42-46.
7. FINISH DIFFUSED NICKEL-CADMIUM PLATE AMS 2416. DIMENSIONS SPECIFIED ARE AFTER PLATING CONTACT POINTS PERMISSIBLE. PD MAY BE REDUCED .0012 MAXIMUM BEFORE PLATING.
8. MANUFACTURING SPECIFICATION AMS 7455. PARTS SUBJECT TO MAGNETIC PARTICLE INSPECTION PER AMS 2640 BEFORE PLATING.
9. SURFACE ROUGHNESS AS 291, UNLESS OTHERWISE SPECIFIED SURFACES TO BE 125 MICROINCHES EXCEPT HEXAGON BREAK SHARP EDGES .003 - .015 UNLESS OTHERWISE SPECIFIED.
10. DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED TOLERANCES; LINEAR DIMENSIONS $\pm .010$, ANGULAR DIMENSIONS $\pm 5^\circ$.
11. TRUE POSITION TOLERANCES SPECIFIED ARE FOR MAXIMUM MATERIAL CONDITION.
12. DO NOT USE UNASSIGNED PART NUMBERS.

SEE A-1000 AND B-1000 PUBLICATIONS.

THIS STANDARD WAS DEVELOPED COOPERATIVELY WITH THE ENGINE AND PROPELLER UTILITY PARTS COMMITTEE OF THE SAE.

| | | |
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| P.A. USAF - AFSC Other Cust NAVY - NCP | TITLE BOLT, MACHINE - STEEL AMS 6304, DIFFUSED NICKEL-CADMIUM PLATED, HEXAGON HEAD, DRILLED, .250-28 UNF7-3A | MILITARY STANDARD MS9441 (ASG) |
| PROCUREMENT SPECIFICATION NONE | SUPERSEDES: NONE | SHEET 1 OF 1 |