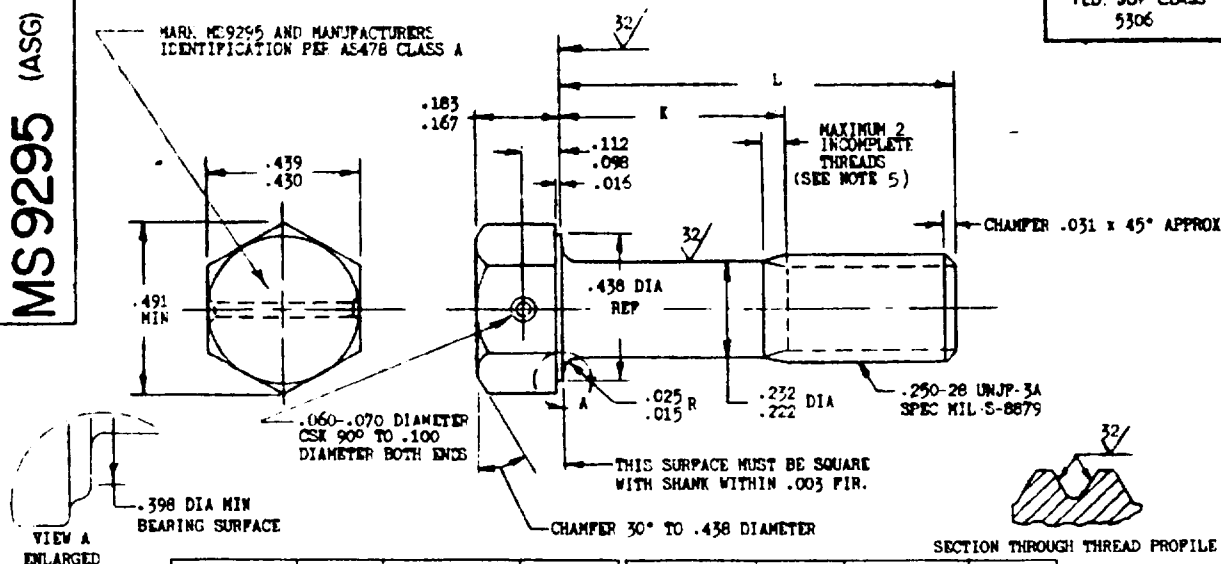


MS 9295 (ASG)

FED. SUP CLASS  
5306MARK MS9295 AND MANUFACTURER  
IDENTIFICATION PER AS478 CLASS A

| PART NUMBER | L     | K           | APPROX WEIGHT LB/100 | PART NUMBER | L     | K           | APPROX WEIGHT LB/100 |
|-------------|-------|-------------|----------------------|-------------|-------|-------------|----------------------|
| MS9295-04   | .375  | .079-.099   | 1.29                 | MS9295-31   | 2.375 | 1.565-1.625 | 3.58                 |
| MS9295-05   | .438  | .079-.099   | 1.36                 | MS9295-32   | 2.500 | 1.690-1.750 | 3.72                 |
| MS9295-06   | .500  | .079-.099   | 1.43                 | MS9295-33   | 2.625 | 1.815-1.875 | 3.86                 |
| MS9295-07   | .562  | .079-.099   | 1.50                 | MS9295-34   | 2.750 | 1.940-2.000 | 4.01                 |
| MS9295-08   | .625  | .079-.099   | 1.57                 | MS9295-35   | 2.875 | 2.065-2.125 | 4.15                 |
| MS9295-09   | .688  | .079-.099   | 1.64                 | MS9295-36   | 3.000 | 2.190-2.250 | 4.29                 |
| MS9295-10   | .750  | .079-.099   | 1.71                 | MS9295-37   | 3.125 | 2.315-2.375 | 4.44                 |
| MS9295-11   | .812  | .079-.099   | 1.79                 | MS9295-38   | 3.250 | 2.440-2.500 | 4.58                 |
| MS9295-12   | .875  | .079-.125   | 1.86                 | MS9295-39   | 3.375 | 2.565-2.625 | 4.73                 |
| MS9295-13   | .938  | .128-.188   | 1.93                 | MS9295-40   | 3.500 | 2.690-2.750 | 4.87                 |
| MS9295-14   | 1.000 | .190-.250   | 2.00                 | MS9295-41   | 3.625 | 2.815-2.875 | 5.01                 |
| MS9295-15   | 1.062 | .252-.312   | 2.07                 | MS9295-42   | 3.750 | 2.940-3.000 | 5.16                 |
| MS9295-16   | 1.125 | .315-.375   | 2.14                 | MS9295-43   | 3.875 | 3.065-3.125 | 5.30                 |
| MS9295-17   | 1.188 | .378-.438   | 2.22                 | MS9295-44   | 4.000 | 3.190-3.250 | 5.44                 |
| MS9295-18   | 1.250 | .440-.500   | 2.29                 | MS9295-45   | 4.125 | 3.315-3.375 | 5.59                 |
| MS9295-19   | 1.312 | .502-.562   | 2.36                 | MS9295-46   | 4.250 | 3.440-3.500 | 5.73                 |
| MS9295-20   | 1.375 | .565-.625   | 2.43                 | MS9295-47   | 4.375 | 3.565-3.625 | 5.87                 |
| MS9295-21   | 1.438 | .628-.688   | 2.50                 | MS9295-48   | 4.500 | 3.690-3.750 | 6.02                 |
| MS9295-22   | 1.500 | .690-.750   | 2.57                 | MS9295-49   | 4.625 | 3.815-3.875 | 6.16                 |
| MS9295-23   | 1.562 | .752-.812   | 2.65                 | MS9295-50   | 4.750 | 3.940-4.000 | 6.30                 |
| MS9295-24   | 1.625 | .815-.875   | 2.72                 | MS9295-51   | 4.875 | 4.065-4.125 | 6.45                 |
| MS9295-25   | 1.688 | .878-.938   | 2.79                 | MS9295-52   | 5.000 | 4.190-4.250 | 6.59                 |
| MS9295-26   | 1.750 | .940-1.000  | 2.86                 | MS9295-53   | 5.125 | 4.315-4.375 | 6.73                 |
| MS9295-27   | 1.875 | 1.065-1.125 | 3.00                 | MS9295-54   | 5.250 | 4.440-4.500 | 6.88                 |
| MS9295-28   | 2.000 | 1.190-1.250 | 3.15                 | MS9295-55   | 5.375 | 4.565-4.625 | 7.02                 |
| MS9295-29   | 2.125 | 1.315-1.375 | 3.29                 | MS9295-56   | 5.500 | 4.690-4.750 | 7.16                 |
| MS9295-30   | 2.250 | 1.440-1.500 | 3.43                 | MS9295-57   | 5.625 | 4.815-4.875 | 7.31                 |
|             |       |             |                      | MS9295-58   | 5.750 | 4.940-5.000 | 7.45                 |
|             |       |             |                      | MS9295-59   | 5.875 | 5.065-5.125 | 7.59                 |
|             |       |             |                      | MS9295-60   | 6.000 | 5.190-5.250 | 7.74                 |

- HEAD TO SHANK FILLET SHALL BE COLD ROLLED AFTER HEAT TREATMENT TO REMOVE ALL VISUAL EVIDENCE OF GRINDING OR TOOL MARKS.
- SHANK SHALL BE STRAIGHT WITHIN .005 PER INCH OF BOLT LENGTH.
- THE CONCENTRICITY OF THREAD PD IN RELATION TO THE SHANK SHALL BE WITHIN .006 FIR.
- THE CONCENTRICITY OF THE SHANK IN RELATION TO THE WASHER FACE DIAMETER AND HEXAGON SHALL BE WITHIN .013 FIR.
- INCOMPLETE THREADS NOT TO ENTER FILLET.
- MATERIAL: STEEL AMS 6322.
- HARDNESS: ROCKWELL C28-32.
- FINISH: BLACK OXIDE TREATMENT AMS 2485.
- MANUFACTURING SPECIFICATION: AMS 7452 EXCEPT HEAD MUST BE UPSET.
- MAGNETIC PARTICLE INSPECTION PER AMS 7420.
- SURFACE ROUGHNESS: AS FPM, UNLESS OTHERWISE SPECIFIED SURFACES TO BE 12 MICROINCHES EXCEPT HEXAGON.
- GREEN SURFACES: 100-125 UNLESS OTHERWISE SPECIFIED.
- DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS  $\pm .010$ , ANGULAR DIMENSIONS  $\pm .05^\circ$ .
- DO NOT USE UNASSIGNED PART NUMBERS.

AS & AMS ARE SOCIETY OF AUTOMOTIVE ENGINEERS, INC. PUBLICATIONS.  
THIS STANDARD WAS DEVELOPED COOPERATIVELY WITH THE ENGINE AND PROPELLER UTILITY PARTS COMMITTEE OF THE SAE.

|                                   |                                                                                                      |                   |
|-----------------------------------|------------------------------------------------------------------------------------------------------|-------------------|
| P.A.<br>USAF - 11                 | TITLE<br>BOLT, MACHINE-STEEL AMS 6322, BLACK OXIDE, DRILLED,<br>1 HOLE, HEXAGON HEAD, .250-28 UNJ-3A | MILITARY STANDARD |
| Other Cust<br>Navy - WP           |                                                                                                      | MS 9295 (ASG)     |
| PROCUREMENT SPECIFICATION<br>NONE | SUPERSEDES.                                                                                          | SHEET 1 OF 1      |

Review activities:  
USAF - 11  
Navy - WP

This drawing has been approved by the Department of the Air Force (11) and the Department of the Navy, and is mandatory for use by that activity. All other military activities are required to employ this standard where suitable.