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**REV.
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AS9454

FEDERAL SUPPLY CLASS
5306

RATIONALE

THIS DOCUMENT HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE 5-YEAR REVIEW POLICY.

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9454A, AMENDMENT 1. THIS SAE STANDARD RETAINS THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

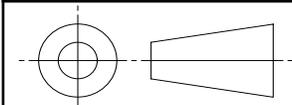
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THIS DOCUMENT INCLUDES CADMIUM AS A PLATING MATERIAL. THE USE OF CADMIUM HAS BEEN RESTRICTED AND/OR BANNED FOR USE IN MANY COUNTRIES DUE TO ENVIRONMENTAL AND HEALTH CONCERNS. THE USER SHOULD CONSULT WITH LOCAL OFFICIALS ON THE ENVIRONMENTAL AND HEALTH REGULATIONS REGARDING ITS USE.

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THIRD ANGLE PROJECTION



CUSTODIAN: SAE E-25

ISSUED 1998-08 REVISED 2003-11 REAFFIRMED 2007-06

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

BOLT, MACHINE - STEEL, DIFFUSED NICKEL-CADMIUM PLATED, HEXAGON HEAD, UNS K14675, 195 KSI MIN, .3750-24 UNJF-3A

AS9454
SHEET 1 OF 4

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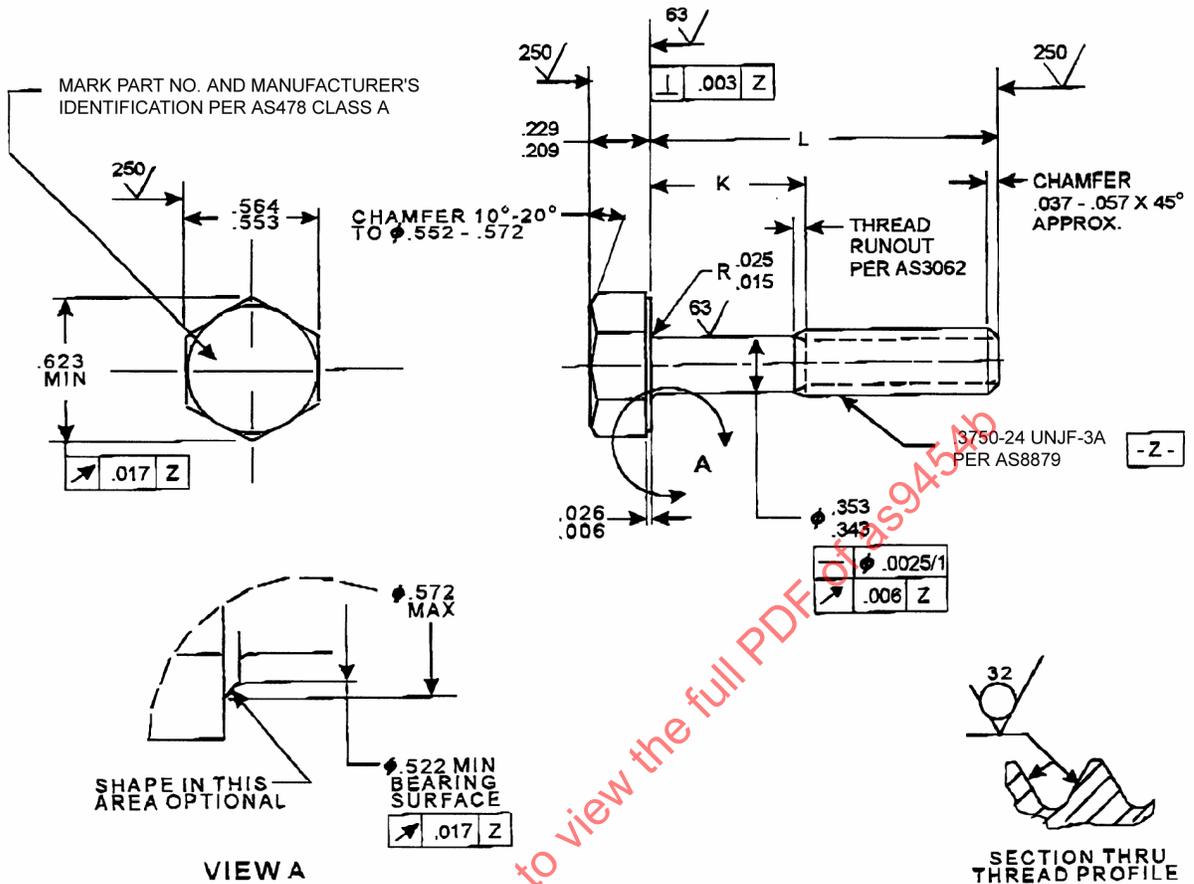


TABLE 1 - PART NUMBERS AND DIMENSIONS

| PART NO. | L | K | APPROX. MASS LB/100 | PART NO. | L | K | APPROX. MASS LB/100 |
|-----------|---------------|---------------|---------------------------|-----------|---------------|---------------|---------------------------|
| MS9454-04 | .615 - .635 | .088 - .108 | 3.25 | MS9454-31 | 2.865 - 2.885 | 1.815 - 1.875 | 9.41 |
| MS9454-05 | .678 - .698 | .088 - .108 | 3.52 | MS9454-32 | 2.990 - 3.010 | 1.940 - 2.000 | 9.74 |
| MS9454-06 | .740 - .760 | .088 - .108 | 3.69 | MS9454-33 | 3.115 - 3.135 | 2.065 - 2.125 | 10.08 |
| MS9454-07 | .802 - .822 | .088 - .108 | 3.86 | MS9454-34 | 3.240 - 3.260 | 2.190 - 2.250 | 10.41 |
| MS9454-08 | .865 - .885 | .088 - .108 | 4.03 | MS9454-35 | 3.365 - 3.385 | 2.315 - 2.375 | 10.75 |
| MS9454-09 | .928 - .948 | .088 - .108 | 4.20 | MS9454-36 | 3.490 - 3.510 | 2.440 - 2.500 | 11.09 |
| MS9454-10 | .990 - 1.010 | .088 - .108 | 4.37 | MS9454-37 | 3.615 - 3.635 | 2.565 - 2.625 | 11.42 |
| MS9454-11 | 1.052 - 1.072 | .088 - .108 | 4.53 | MS9454-38 | 3.740 - 3.760 | 2.690 - 2.750 | 11.76 |
| MS9454-12 | 1.115 - 1.135 | .125 - .145 | 4.70 | MS9454-39 | 3.865 - 3.885 | 2.815 - 2.875 | 12.09 |
| MS9454-13 | 1.178 - 1.198 | .128 - .188 | 4.87 | MS9454-40 | 3.990 - 4.010 | 2.940 - 3.000 | 12.43 |
| MS9454-14 | 1.240 - 1.260 | .190 - .250 | 5.04 | MS9454-41 | 4.115 - 4.135 | 3.065 - 3.125 | 12.77 |
| MS9454-15 | 1.302 - 1.322 | .252 - .312 | 5.21 | MS9454-42 | 4.240 - 4.260 | 3.190 - 3.250 | 13.10 |
| MS9454-16 | 1.365 - 1.385 | .315 - .375 | 5.37 | MS9454-43 | 4.365 - 3.385 | 3.315 - 3.375 | 13.44 |
| MS9454-17 | 1.428 - 1.448 | .378 - .438 | 5.54 | MS9454-44 | 4.490 - 4.510 | 3.440 - 3.500 | 13.77 |
| MS9454-18 | 1.490 - 1.510 | .440 - .500 | 5.71 | MS9454-45 | 4.615 - 4.635 | 3.565 - 3.625 | 14.11 |
| MS9454-19 | 1.552 - 1.572 | .502 - .562 | 5.88 | MS9454-46 | 4.740 - 4.760 | 3.690 - 3.750 | 14.45 |
| MS9454-20 | 1.615 - 1.635 | .565 - .625 | 6.05 | MS9454-47 | 4.865 - 4.885 | 3.815 - 3.875 | 14.78 |
| MS9454-21 | 1.678 - 1.698 | .628 - .688 | 6.21 | MS9454-48 | 4.990 - 5.010 | 3.940 - 4.000 | 15.12 |
| MS9454-22 | 1.740 - 1.760 | .690 - .750 | 6.38 | MS9454-49 | 5.115 - 5.135 | 4.065 - 4.125 | 15.45 |
| MS9454-23 | 1.865 - 1.885 | .815 - .875 | 6.72 | MS9454-50 | 5.240 - 5.260 | 4.190 - 4.250 | 15.79 |
| MS9454-24 | 1.990 - 2.010 | .940 - 1.000 | 7.05 | MS9454-51 | 5.365 - 5.385 | 4.315 - 4.375 | 16.13 |
| MS9454-25 | 2.115 - 2.135 | 1.065 - 1.125 | 7.39 | MS9454-52 | 5.490 - 5.510 | 4.440 - 4.500 | 16.46 |
| MS9454-26 | 2.240 - 2.260 | 1.190 - 1.250 | 7.73 | MS9454-53 | 5.615 - 5.635 | 4.565 - 4.625 | 16.80 |
| MS9454-27 | 2.365 - 2.385 | 1.315 - 1.375 | 8.06 | MS9454-54 | 5.740 - 5.760 | 4.690 - 4.750 | 17.13 |
| MS9454-28 | 2.490 - 2.510 | 1.440 - 1.500 | 8.40 | MS9454-55 | 5.865 - 5.885 | 4.815 - 4.875 | 17.47 |
| MS9454-29 | 2.615 - 2.635 | 1.565 - 1.625 | 8.73 | MS9454-56 | 5.990 - 6.010 | 4.940 - 5.000 | 17.81 |
| MS9454-30 | 2.740 - 2.760 | 1.690 - 1.750 | 9.07 | | | | |

NOTES:

1. MATERIAL: LOW ALLOY STEEL AMS 6304 (UNS K14675).
2. PROCUREMENT SPECIFICATION: AS7455.
3. HARDNESS: 42-46 HRC.
4. FINISH: DIFFUSED NICKEL-CADMIUM PLATE AMS 2416. DIMENSIONS ARE AFTER PLATING. CONTACT POINTS PERMISSIBLE. PD MAY BE REDUCED .0012 MAXIMUM BEFORE PLATING.
5. MAGNETIC PARTICLE INSPECTION PER ASTM E 1444 BEFORE PLATING.
6. INCOMPLETE THREADS NOT TO ENTER FILLET.
7. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES Ra.
8. BREAK SHARP EDGES .003-.015, UNLESS OTHERWISE SPECIFIED.