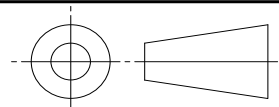


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|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                        |                                                                                                                     |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| REV.<br>B                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                        | FEDERAL SUPPLY CLASS<br>5306                                                                                        |
| AS91721                                                                             | <p>RATIONALE</p> <p>THIS DOCUMENT HAS BEEN DETERMINED TO CONTAIN BASIC AND STABLE TECHNOLOGY WHICH IS NOT DYNAMIC IN NATURE.</p> <p>STABILIZED NOTICE</p> <p>THIS DOCUMENT HAS BEEN DECLARED "STABILIZED" BY THE SAE E-25 GENERAL STANDARDS FOR AEROSPACE AND PROPULSION SYSTEMS COMMITTEE AND WILL NO LONGER BE SUBJECTED TO PERIODIC REVIEWS FOR CURRENCY. USERS ARE RESPONSIBLE FOR VERIFYING REFERENCES AND CONTINUED SUITABILITY OF TECHNICAL REQUIREMENTS. NEWER TECHNOLOGY MAY EXIST.</p> |                                                                                                                                                                                                        |                                                                                                                     |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <p>SAE values your input. To provide feedback on this Technical Report, please visit <a href="http://www.sae.org/technical/standards/AS91721B">http://www.sae.org/technical/standards/AS91721B</a></p> | <p>THIRD ANGLE PROJECTION</p>  |
| CUSTODIAN: E-25                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                        |                                                                                                                     |
|  | <p><b>AEROSPACE STANDARD</b></p> <p>BOLT, MACHINE - DOUBLE HEXAGON EXTENDED WASHER HEAD, DRILLED, PD SHANK, BLACK OXIDE, STEEL, UNS G87400, 125 KSI MIN .3750-24 UNF-3A</p>                                                                                                                                                                                                                                                                                                                      | AS91721                                                                                                                                                                                                | REV.<br>B                                                                                                           |

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ISSUED 1999-12 REVISED 2003-10 REAFFIRMED 2007-06 STABILIZED 2015-06

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|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------|
|  | <b>AEROSPACE STANDARD</b>                                                                                                                    | <b>AS91721</b><br>SHEET 1 OF 4 | <b>REV.</b><br><b>B</b> |
|                                                                                     | BOLT, MACHINE - DOUBLE HEXAGON EXTENDED<br>WASHER HEAD, DRILLED, PD SHANK, BLACK<br>OXIDE, STEEL, UNS G87400, 125 KSI MIN<br>.3750-24 UNF-3A |                                |                         |

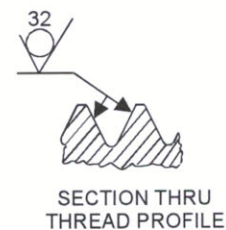
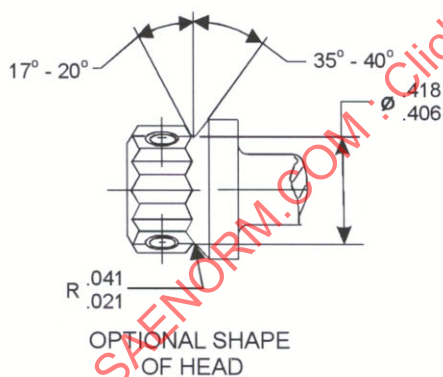
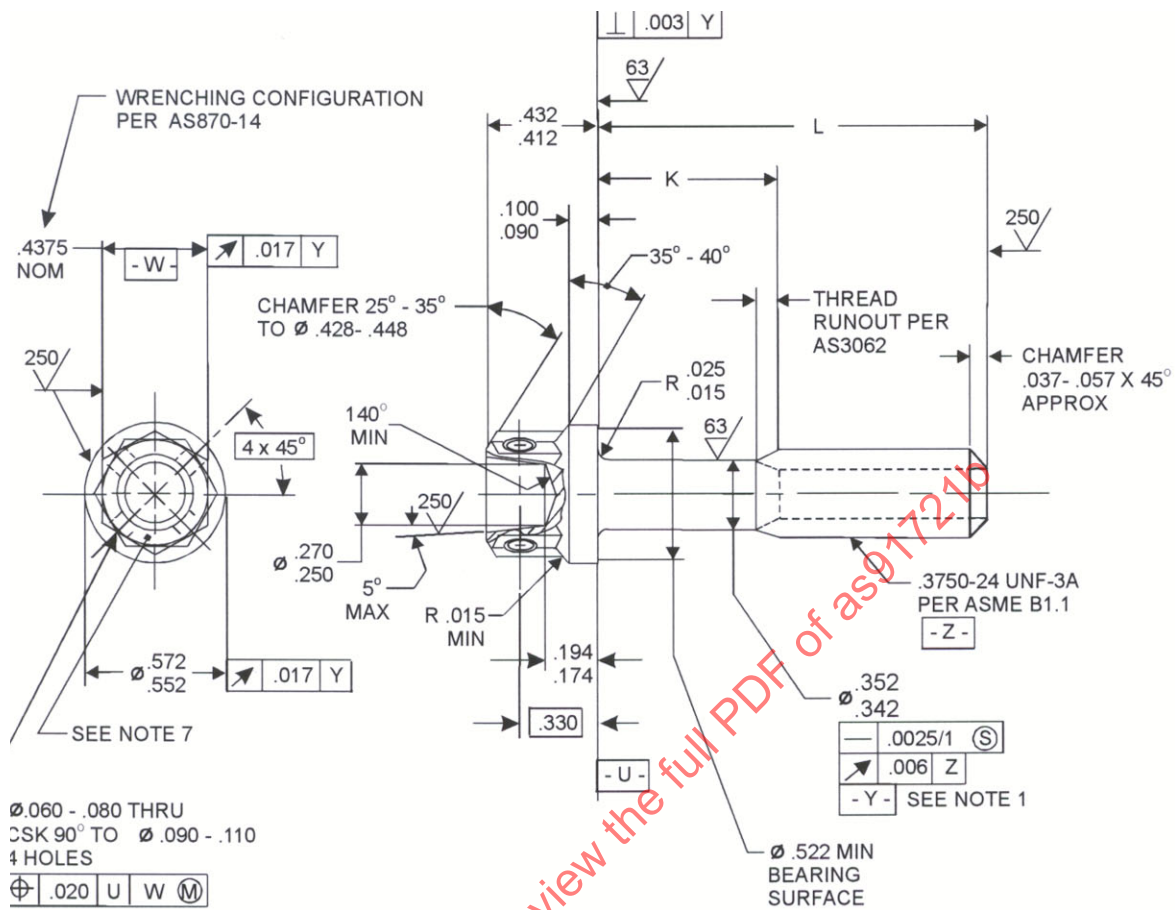


FIGURE 1 - BOLT

TABLE 1 - PART NUMBERS AND DIMENSIONS.

| PART NUMBER | L             | K             | APPROX. MASS LB/100 | PART NUMBER | L             | K             | APPROX. MASS LB/100 |
|-------------|---------------|---------------|---------------------|-------------|---------------|---------------|---------------------|
| MS9172-06   | .740 - .760   | <u>1/</u>     | 3.74                | MS9172-32   | 2.990 - 3.010 | 1.940 - 2.000 | 9.80                |
| MS9172-07   | .802 - .822   | <u>1/</u>     | 3.90                | MS9172-33   | 3.115 - 3.135 | 2.065 - 2.125 | 10.13               |
| MS9172-08   | .865 - .885   | <u>1/</u>     | 4.07                | MS9172-34   | 3.240 - 3.260 | 2.190 - 2.250 | 10.47               |
| MS9172-09   | .928 - .948   | <u>1/</u>     | 4.24                | MS9172-35   | 3.365 - 3.385 | 2.315 - 2.375 | 10.80               |
| MS9172-10   | .990 - 1.010  | <u>1/</u>     | 4.41                | MS9172-36   | 3.490 - 3.510 | 2.440 - 2.500 | 11.14               |
| MS9172-11   | 1.052 - 1.072 | <u>1/</u>     | 4.58                | MS9172-37   | 3.615 - 3.635 | 2.565 - 2.625 | 11.47               |
| MS9172-12   | 1.115 - 1.135 | .065 - .125   | 4.75                | MS9172-38   | 3.740 - 3.760 | 2.690 - 2.750 | 11.80               |
| MS9172-13   | 1.178 - 1.198 | .128 - .188   | 4.91                | MS9172-39   | 3.865 - 3.885 | 2.815 - 2.875 | 12.14               |
| MS9172-14   | 1.240 - 1.260 | .190 - .250   | 5.08                | MS9172-40   | 3.990 - 4.010 | 2.940 - 3.000 | 12.47               |
| MS9172-15   | 1.302 - 1.322 | .252 - .312   | 5.25                | MS9172-41   | 4.115 - 4.135 | 3.065 - 3.125 | 12.80               |
| MS9172-16   | 1.365 - 1.385 | .315 - .375   | 5.43                | MS9172-42   | 4.240 - 4.260 | 3.190 - 3.250 | 13.13               |
| MS9172-17   | 1.428 - 1.448 | .378 - .438   | 5.60                | MS9172-43   | 4.365 - 4.385 | 3.315 - 3.375 | 13.46               |
| MS9172-18   | 1.490 - 1.510 | .440 - .500   | 5.76                | MS9172-44   | 4.490 - 4.510 | 3.440 - 3.500 | 13.89               |
| MS9172-19   | 1.552 - 1.572 | .502 - .562   | 5.93                | MS9172-45   | 4.615 - 4.635 | 3.565 - 3.625 | 14.23               |
| MS9172-20   | 1.615 - 1.635 | .565 - .625   | 6.10                | MS9172-46   | 4.740 - 4.760 | 3.690 - 3.750 | 14.56               |
| MS9172-21   | 1.678 - 1.698 | .628 - .688   | 6.27                | MS9172-47   | 4.865 - 4.885 | 3.815 - 3.875 | 14.89               |
| MS9172-22   | 1.740 - 1.760 | .690 - .750   | 6.44                | MS9172-48   | 4.990 - 5.010 | 3.940 - 4.000 | 15.23               |
| MS9172-23   | 1.865 - 1.885 | .815 - .875   | 6.77                | MS9172-49   | 5.115 - 5.135 | 4.065 - 4.125 | 15.57               |
| MS9172-24   | 1.990 - 2.010 | .940 - 1.000  | 7.11                | MS9172-50   | 5.240 - 5.260 | 4.190 - 4.250 | 15.90               |
| MS9172-25   | 2.115 - 2.135 | 1.065 - 1.125 | 7.44                | MS9172-51   | 5.365 - 5.385 | 4.315 - 4.375 | 16.23               |
| MS9172-26   | 2.240 - 2.260 | 1.190 - 1.250 | 7.78                | MS9172-52   | 5.490 - 5.510 | 4.440 - 4.500 | 16.56               |
| MS9172-27   | 2.365 - 2.385 | 1.315 - 1.375 | 8.11                | MS9172-53   | 5.615 - 5.635 | 4.565 - 4.625 | 16.89               |
| MS9172-28   | 2.490 - 2.510 | 1.440 - 1.500 | 8.44                | MS9172-54   | 5.740 - 5.760 | 4.690 - 4.750 | 17.23               |
| MS9172-29   | 2.615 - 2.635 | 1.565 - 1.625 | 8.78                | MS9172-55   | 5.865 - 5.885 | 4.815 - 4.875 | 17.57               |
| MS9172-30   | 2.740 - 2.760 | 1.690 - 1.750 | 9.12                | MS9172-56   | 5.990 - 6.010 | 4.940 - 5.000 | 17.91               |
| MS9172-31   | 2.865 - 2.885 | 1.815 - 1.875 | 9.46                |             |               |               |                     |

1/ THREAD TO HEAD. MAXIMUM TWO IMPERFECT THREADS.



### AEROSPACE STANDARD

BOLT, MACHINE - DOUBLE HEXAGON EXTENDED  
WASHER HEAD, DRILLED, PD SHANK, BLACK  
OXIDE, STEEL, UNS G87400, 125 KSI MIN  
.3750-24 UNF-3A

**AS91721**  
SHEET 3 OF 4

**REV.**  
**B**