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AS9523

FEDERAL SUPPLY CLASS  
5306

#### RATIONALE

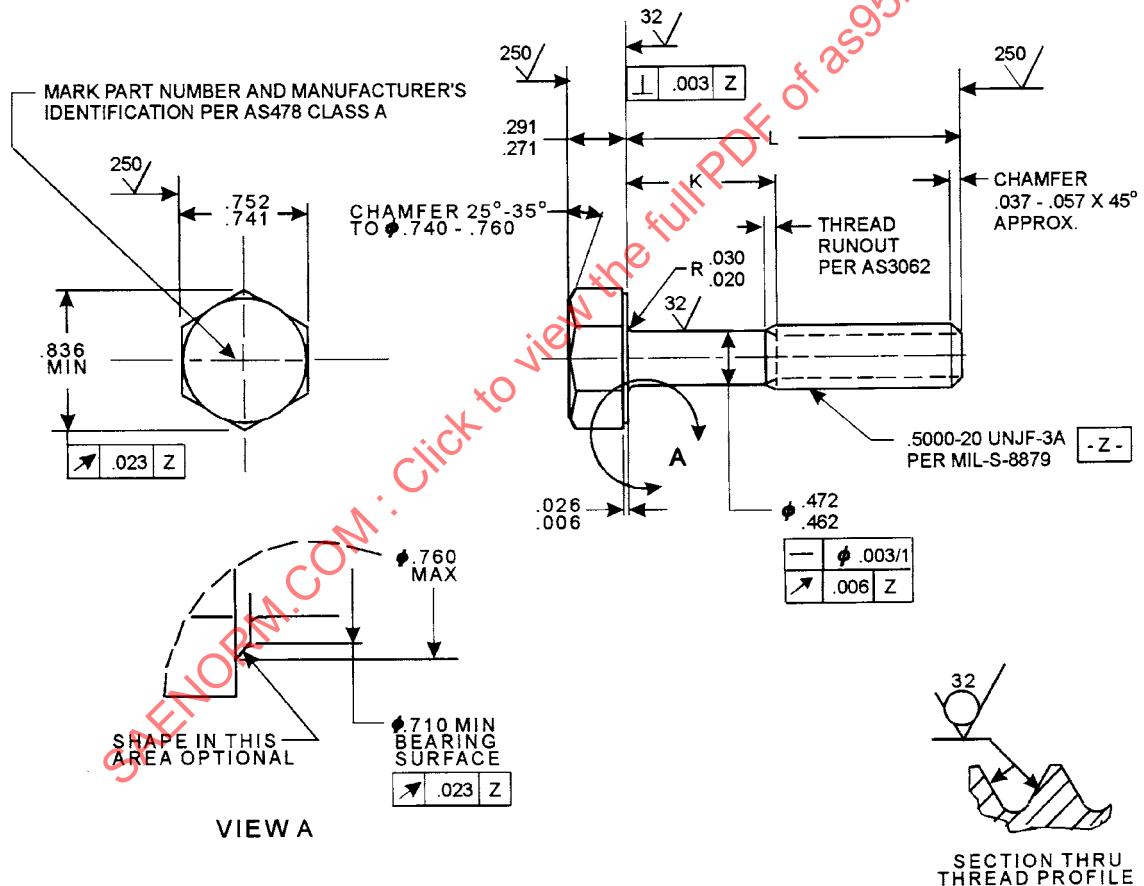
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PREPARED BY SAE COMMITTEE E-25, GENERAL STANDARDS FOR AEROSPACE PROPULSION SYSTEMS

**SAE Aerospace**  
An SAE International Group

(R)

#### AEROSPACE STANDARD

BOLT, MACHINE - STEEL, CADMIUM PLATED,  
HEXAGON HEAD, UNS G87400, 125 KSI MIN,  
.5000-20 UNJF-3A

**AS9523**  
SHEET 1 OF 3

**REV.  
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ISSUED 1999-08 REVISED 2001-12 REAFFIRMED 2006-05

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TABLE 1 - PART NUMBERS AND DIMENSIONS

| PART NO.  | L             | K             | APPROX.<br>MASS<br>LB/100 | PART NO.  | L             | K             | APPROX.<br>MASS<br>LB/100 |
|-----------|---------------|---------------|---------------------------|-----------|---------------|---------------|---------------------------|
| MS9523-04 | .802 - .822   | .105 - .125   | 7.77                      | MS9523-31 | 3.240 - 3.260 | 1.940 - 2.000 | 19.55                     |
| MS9523-05 | .865 - .885   | .105 - .125   | 8.07                      | MS9523-32 | 3.365 - 3.385 | 2.065 - 2.125 | 20.16                     |
| MS9523-06 | .928 - .948   | .105 - .125   | 8.37                      | MS9523-33 | 3.490 - 3.510 | 2.190 - 2.250 | 20.76                     |
| MS9523-07 | .990 - 1.010  | .105 - .125   | 8.67                      | MS9523-34 | 3.615 - 3.635 | 2.315 - 2.375 | 21.36                     |
| MS9523-08 | 1.052 - 1.072 | .105 - .125   | 8.98                      | MS9523-35 | 3.740 - 3.760 | 2.440 - 2.500 | 21.97                     |
| MS9523-09 | 1.115 - 1.135 | .105 - .125   | 9.28                      | MS9523-36 | 3.865 - 3.885 | 2.565 - 2.625 | 22.57                     |
| MS9523-10 | 1.178 - 1.198 | .105 - .125   | 9.58                      | MS9523-37 | 3.990 - 4.010 | 2.690 - 2.750 | 23.18                     |
| MS9523-11 | 1.240 - 1.260 | .105 - .125   | 9.88                      | MS9523-38 | 4.115 - 4.135 | 2.815 - 2.875 | 23.78                     |
| MS9523-12 | 1.302 - 1.322 | .105 - .125   | 10.19                     | MS9523-39 | 4.240 - 4.260 | 2.940 - 3.000 | 24.38                     |
| MS9523-13 | 1.365 - 1.385 | .105 - .125   | 10.49                     | MS9523-40 | 4.365 - 4.385 | 3.065 - 3.125 | 24.99                     |
| MS9523-14 | 1.428 - 1.448 | .128 - .188   | 10.79                     | MS9523-41 | 4.490 - 4.510 | 3.190 - 3.250 | 25.59                     |
| MS9523-15 | 1.490 - 1.510 | .190 - .250   | 11.09                     | MS9523-42 | 4.615 - 4.635 | 3.315 - 3.375 | 26.20                     |
| MS9523-16 | 1.552 - 1.572 | .252 - .312   | 11.39                     | MS9523-43 | 4.740 - 4.760 | 3.440 - 3.500 | 26.80                     |
| MS9523-17 | 1.615 - 1.635 | .315 - .375   | 11.70                     | MS9523-44 | 4.865 - 4.885 | 3.565 - 3.625 | 27.41                     |
| MS9523-18 | 1.678 - 1.698 | .378 - .438   | 12.00                     | MS9523-45 | 4.990 - 5.010 | 3.690 - 3.750 | 28.01                     |
| MS9523-19 | 1.740 - 1.760 | .440 - .500   | 12.30                     | MS9523-46 | 5.115 - 5.135 | 3.815 - 3.875 | 28.61                     |
| MS9523-20 | 1.865 - 1.885 | .565 - .625   | 12.90                     | MS9523-47 | 5.240 - 5.260 | 3.940 - 4.000 | 29.22                     |
| MS9523-21 | 1.990 - 2.010 | .690 - .750   | 13.51                     | MS9523-48 | 5.365 - 5.385 | 4.065 - 4.125 | 29.82                     |
| MS9523-22 | 2.115 - 2.235 | .815 - .875   | 14.11                     | MS9523-49 | 5.490 - 5.510 | 4.190 - 4.250 | 30.43                     |
| MS9523-23 | 2.240 - 2.260 | .940 - 1.000  | 14.72                     | MS9523-50 | 5.615 - 5.635 | 4.315 - 4.375 | 31.03                     |
| MS9523-24 | 2.365 - 2.385 | 1.065 - 1.125 | 15.32                     | MS9523-51 | 5.740 - 5.760 | 4.440 - 4.500 | 31.64                     |
| MS9523-25 | 2.490 - 2.510 | 1.190 - 1.250 | 15.93                     | MS9523-52 | 5.865 - 5.885 | 4.565 - 4.625 | 32.24                     |
| MS9523-26 | 2.615 - 2.635 | 1.315 - 1.375 | 16.53                     | MS9523-53 | 5.990 - 6.010 | 4.690 - 4.750 | 32.84                     |
| MS9523-27 | 2.740 - 2.760 | 1.440 - 1.500 | 17.13                     |           |               |               |                           |
| MS9523-28 | 2.865 - 2.885 | 1.565 - 1.625 | 17.74                     |           |               |               |                           |
| MS9523-29 | 2.990 - 3.010 | 1.690 - 1.750 | 18.34                     |           |               |               |                           |
| MS9523-30 | 3.115 - 3.135 | 1.815 - 1.875 | 18.95                     |           |               |               |                           |