

FEDERAL SUPPLY CLASS
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AS9458

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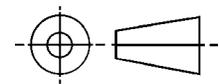
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THIRD ANGLE PROJECTION



ISSUED 1998-08 REVISED 2001-12

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



AEROSPACE STANDARD

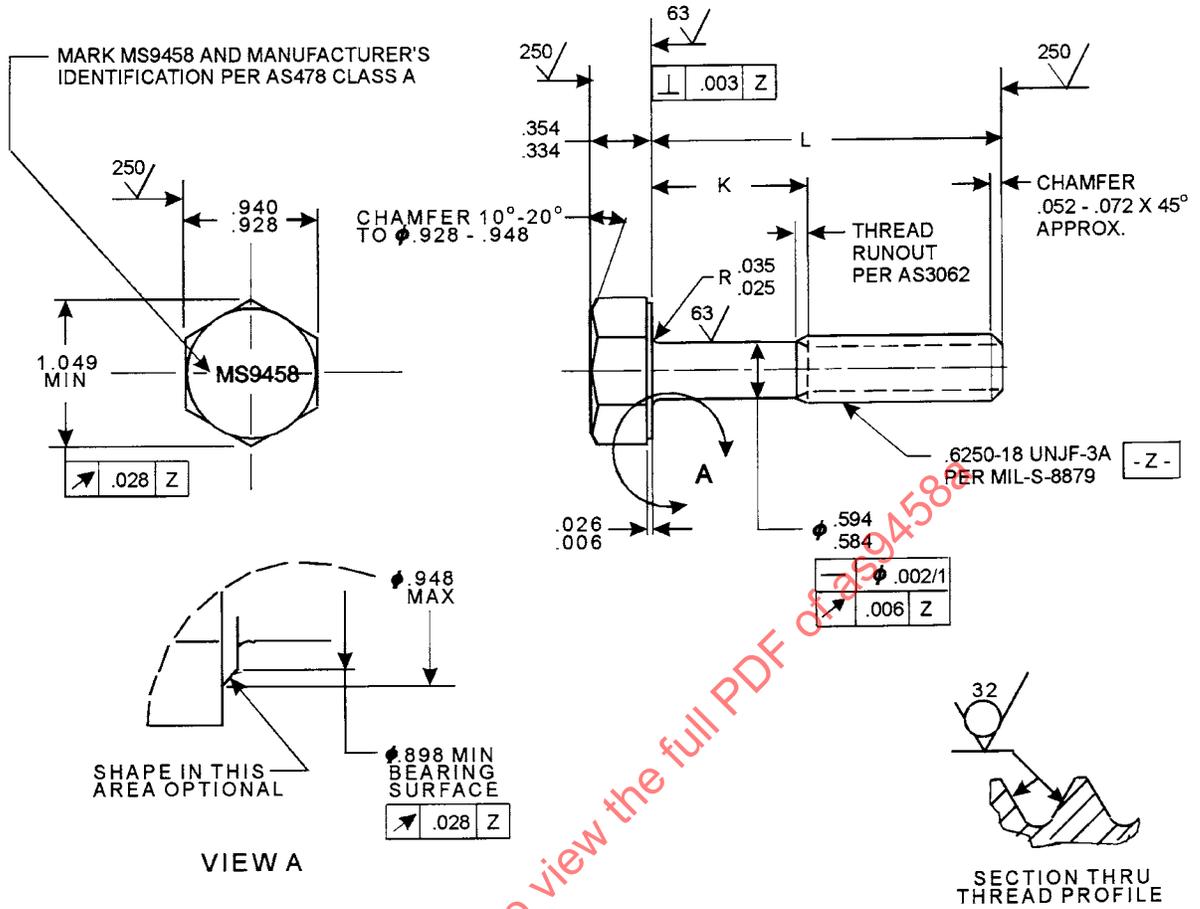
(R) BOLT, MACHINE - STEEL, DIFFUSED NICKEL-CADMIUM PLATED, HEXAGON HEAD, UNS K14675, 195 KSI MIN, .6250-18 UNJF-3A

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AEROSPACE STANDARD

(R) BOLT, MACHINE - STEEL, DIFFUSED NICKEL-CADMIUM PLATED, HEXAGON HEAD, UNS K14675, 195 KSI MIN, .6250-18 UNJF-3A

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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 |
|-----------|---------------|---------------|---------------------------|-----------|---------------|---------------|---------------------------|
| MS9458-03 | .928 - .948 | .114 - .134 | 14.53 | MS9458-30 | 3.365 - 3.385 | 1.815 - 1.875 | 33.20 |
| MS9458-04 | .990 - 1.010 | .114 - .134 | 15.01 | MS9458-31 | 3.490 - 3.510 | 1.940 - 2.000 | 34.16 |
| MS9458-05 | 1.052 - 1.072 | .114 - .134 | 15.49 | MS9458-32 | 3.615 - 3.635 | 2.065 - 2.125 | 35.11 |
| MS9458-06 | 1.115 - 1.135 | .114 - .134 | 15.97 | MS9458-33 | 3.740 - 3.760 | 2.190 - 2.250 | 36.07 |
| MS9458-07 | 1.178 - 1.198 | .114 - .134 | 16.45 | MS9458-34 | 3.865 - 3.885 | 2.315 - 2.375 | 37.03 |
| MS9458-08 | 1.240 - 1.260 | .114 - .134 | 16.93 | MS9458-35 | 3.990 - 4.010 | 2.440 - 2.500 | 37.98 |
| MS9458-09 | 1.302 - 1.322 | .114 - .134 | 17.41 | MS9458-36 | 4.115 - 4.132 | 2.565 - 2.625 | 38.94 |
| MS9458-10 | 1.365 - 1.385 | .114 - .134 | 17.89 | MS9458-37 | 4.240 - 4.260 | 2.690 - 2.750 | 39.90 |
| MS9458-11 | 1.428 - 1.448 | .114 - .134 | 18.36 | MS9458-38 | 4.365 - 4.385 | 2.815 - 2.875 | 40.86 |
| MS9458-12 | 1.490 - 1.510 | .114 - .134 | 18.84 | MS9458-39 | 4.490 - 4.510 | 2.940 - 3.000 | 41.81 |
| MS9458-13 | 1.552 - 1.572 | .114 - .134 | 19.32 | MS9458-40 | 4.615 - 4.635 | 3.065 - 3.125 | 42.77 |
| MS9458-14 | 1.615 - 1.635 | .125 - .145 | 19.80 | MS9458-41 | 4.740 - 4.760 | 3.190 - 3.250 | 43.73 |
| MS9458-15 | 1.678 - 1.698 | .128 - .188 | 20.28 | MS9458-42 | 4.865 - 4.885 | 3.315 - 3.375 | 44.68 |
| MS9458-16 | 1.740 - 1.760 | .190 - .250 | 20.76 | MS9458-43 | 4.990 - 5.010 | 3.440 - 3.500 | 45.64 |
| MS9458-17 | 1.802 - 1.822 | .252 - .312 | 21.24 | MS9458-44 | 5.115 - 5.135 | 3.565 - 3.625 | 46.60 |
| MS9458-18 | 1.865 - 1.885 | .315 - .375 | 21.71 | MS9458-45 | 5.240 - 5.260 | 3.690 - 3.750 | 47.55 |
| MS9458-19 | 1.990 - 2.010 | .440 - .500 | 22.67 | MS9458-46 | 5.365 - 5.385 | 3.815 - 3.875 | 48.51 |
| MS9458-20 | 2.115 - 2.135 | .565 - .625 | 23.63 | MS9458-47 | 5.490 - 5.510 | 3.940 - 4.000 | 49.47 |
| MS9458-21 | 2.240 - 2.260 | .690 - .750 | 24.59 | MS9458-48 | 5.615 - 5.635 | 4.065 - 4.125 | 50.43 |
| MS9458-22 | 2.365 - 2.385 | .815 - .875 | 25.54 | MS9458-49 | 5.740 - 5.760 | 4.190 - 4.250 | 51.38 |
| MS9458-23 | 2.490 - 2.510 | .940 - 1.000 | 26.50 | MS9458-50 | 5.865 - 5.885 | 4.315 - 4.375 | 52.34 |
| MS9458-24 | 2.615 - 2.635 | 1.065 - 1.125 | 27.46 | MS9458-51 | 5.990 - 6.010 | 4.440 - 4.500 | 53.30 |
| MS9458-25 | 2.740 - 2.760 | 1.190 - 1.250 | 28.41 | | | | |
| MS9458-26 | 2.865 - 2.885 | 1.315 - 1.375 | 29.37 | | | | |
| MS9458-27 | 2.990 - 3.010 | 1.440 - 1.500 | 30.33 | | | | |
| MS9458-28 | 3.115 - 3.135 | 1.565 - 1.625 | 31.28 | | | | |
| MS9458-29 | 3.240 - 3.260 | 1.690 - 1.750 | 32.24 | | | | |

NOTES:

- MATERIAL: LOW ALLOY STEEL AMS 6304 (UNS K14675).
- PROCUREMENT SPECIFICATION: AS7455.
- HARDNESS: 42-46 HRC.
- FINISH: DIFFUSED NICKEL-CADMIUM PLATE AMS 2416. DIMENSIONS ARE AFTER PLATING. CONTACT POINTS PERMISSIBLE. PD MAY BE REDUCED .0012 MAXIMUM BEFORE PLATING.
- MAGNETIC PARTICLE INSPECTION PER ASTM E 1444 BEFORE PLATING.
- INCOMPLETE THREADS NOT TO ENTER FILLET.
- SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICRONS Ra.
- BREAK SHARP EDGES .003-.015, UNLESS OTHERWISE SPECIFIED.
- DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982 (ASME PUBLICATION).
- DIMENSIONS IN INCHES.
- DO NOT USE UNASSIGNED PART NUMBERS.

AEROSPACE STANDARD

(R) BOLT, MACHINE - STEEL, DIFFUSED NICKEL-
CADMIUM PLATED, HEXAGON HEAD,
UNS K14675, 195 KSI MIN, .6250-18 UNJF-3A

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