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AS9456

FEDERAL SUPPLY CLASS
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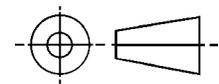
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WARNING

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



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, .5000-20 UNJF-3A

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ISSUED 1998-08 REVISED 2001-12

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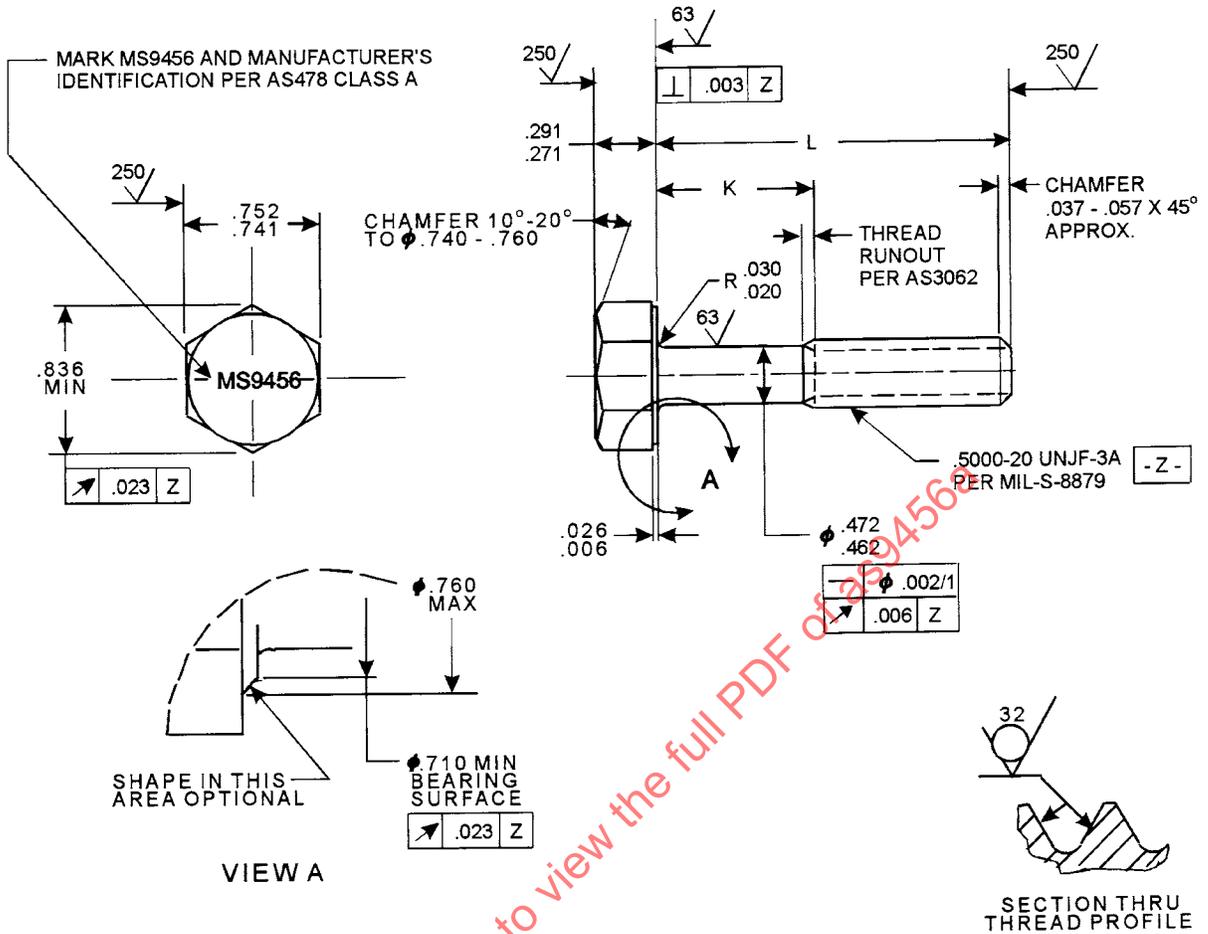


FIGURE 1 - BOLT

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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
MS9456-04	.802 - .822	.105 - .125	7.77	MS9456-31	3.240 - 3.260	1.940 - 2.000	19.55
MS9456-05	.865 - .885	.105 - .125	8.07	MS9456-32	3.365 - 3.385	2.065 - 2.125	20.16
MS9456-06	.928 - .948	.105 - .125	8.37	MS9456-33	3.490 - 3.510	2.190 - 2.250	20.76
MS9456-07	.990 - 1.010	.105 - .125	8.67	MS9456-34	3.615 - 3.635	2.315 - 2.375	21.36
MS9456-08	1.052 - 1.072	.105 - .125	8.98	MS9456-35	3.740 - 3.760	2.440 - 2.500	21.97
MS9456-09	1.115 - 1.135	.105 - .125	9.28	MS9456-36	3.865 - 3.885	2.565 - 2.625	22.57
MS9456-10	1.178 - 1.198	.105 - .125	9.58	MS9456-37	3.990 - 4.010	2.690 - 2.750	23.18
MS9456-11	1.240 - 1.260	.105 - .125	9.88	MS9456-38	4.115 - 4.135	2.815 - 2.875	23.78
MS9456-12	1.302 - 1.322	.105 - .125	10.19	MS9456-39	4.240 - 4.260	2.940 - 3.000	24.38
MS9456-13	1.365 - 1.385	.125 - .145	10.49	MS9456-40	4.365 - 4.385	3.065 - 3.125	24.99
MS9456-14	1.428 - 1.448	.128 - .188	10.79	MS9456-41	4.490 - 4.510	3.190 - 3.250	25.59
MS9456-15	1.490 - 1.510	.190 - .250	11.09	MS9456-42	4.615 - 4.635	3.315 - 3.375	26.20
MS9456-16	1.552 - 1.572	.252 - .312	11.39	MS9456-43	4.740 - 4.760	3.440 - 3.500	26.80
MS9456-17	1.615 - 1.635	.315 - .375	11.70	MS9456-44	4.865 - 4.885	3.565 - 3.625	27.41
MS9456-18	1.678 - 1.698	.378 - .438	12.00	MS9456-45	4.990 - 5.010	3.690 - 3.750	28.01
MS9456-19	1.740 - 1.760	.440 - .500	12.30	MS9456-46	5.115 - 5.135	3.815 - 3.875	28.61
MS9456-20	1.865 - 1.885	.565 - .625	12.90	MS9456-47	5.240 - 5.260	3.940 - 4.000	29.22
MS9456-21	1.990 - 2.010	.690 - .750	13.51	MS9456-48	5.365 - 5.385	4.065 - 4.125	29.82
MS9456-22	2.115 - 2.235	.815 - .875	14.11	MS9456-49	5.490 - 5.510	4.190 - 4.250	30.43
MS9456-23	2.240 - 2.260	.940 - 1.000	14.72	MS9456-50	5.615 - 5.635	4.315 - 4.375	31.03
MS9456-24	2.365 - 2.385	1.065 - 1.125	15.32	MS9456-51	5.740 - 5.760	4.440 - 4.500	31.64
MS9456-25	2.490 - 2.510	1.190 - 1.250	15.93	MS9456-52	5.865 - 5.885	4.565 - 4.625	32.24
MS9456-26	2.615 - 2.635	1.315 - 1.375	16.53	MS9456-53	5.990 - 6.010	4.690 - 4.750	32.84
MS9456-27	2.740 - 2.760	1.440 - 1.500	17.13				
MS9456-28	2.865 - 2.885	1.565 - 1.625	17.74				
MS9456-29	2.990 - 3.010	1.690 - 1.750	18.34				
MS9456-30	3.115 - 3.135	1.815 - 1.875	18.95				

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 MICRONS Ra.
8. BREAK SHARP EDGES .003-.015, UNLESS OTHERWISE SPECIFIED.
9. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982 (ASME PUBLICATION).
10. DIMENSIONS IN INCHES.
11. DO NOT USE UNASSIGNED PART NUMBERS.

AEROSPACE STANDARD

(R) BOLT, MACHINE - STEEL, DIFFUSED NICKEL-CADMIUM PLATED, HEXAGON HEAD, UNS K14675, 195 KSI MIN, .5000-20 UNJF-3A

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