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REV. B
AS9456

FEDERAL SUPPLY CLASS
5306

RATIONALE

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

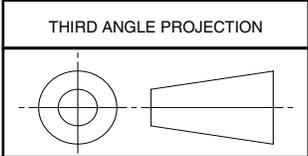
THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9456A, AMENDMENT 1. THIS SAE STANDARD RETAINS THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

ANY REQUIREMENTS ASSOCIATED WITH QUALIFIED PRODUCTS LISTS (QPL) MAY CONTINUE TO BE MANDATORY FOR DOD CONTRACTS. REQUIREMENTS RELATING TO QPL'S HAVE NOT BEEN ADOPTED BY THE SAE FOR THIS STANDARD AND ARE NOT PART OF THIS SAE DOCUMENT.

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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CUSTODIAN: SAE E-25



AEROSPACE STANDARD

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

AS9456
SHEET 1 OF 4

REV. B

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

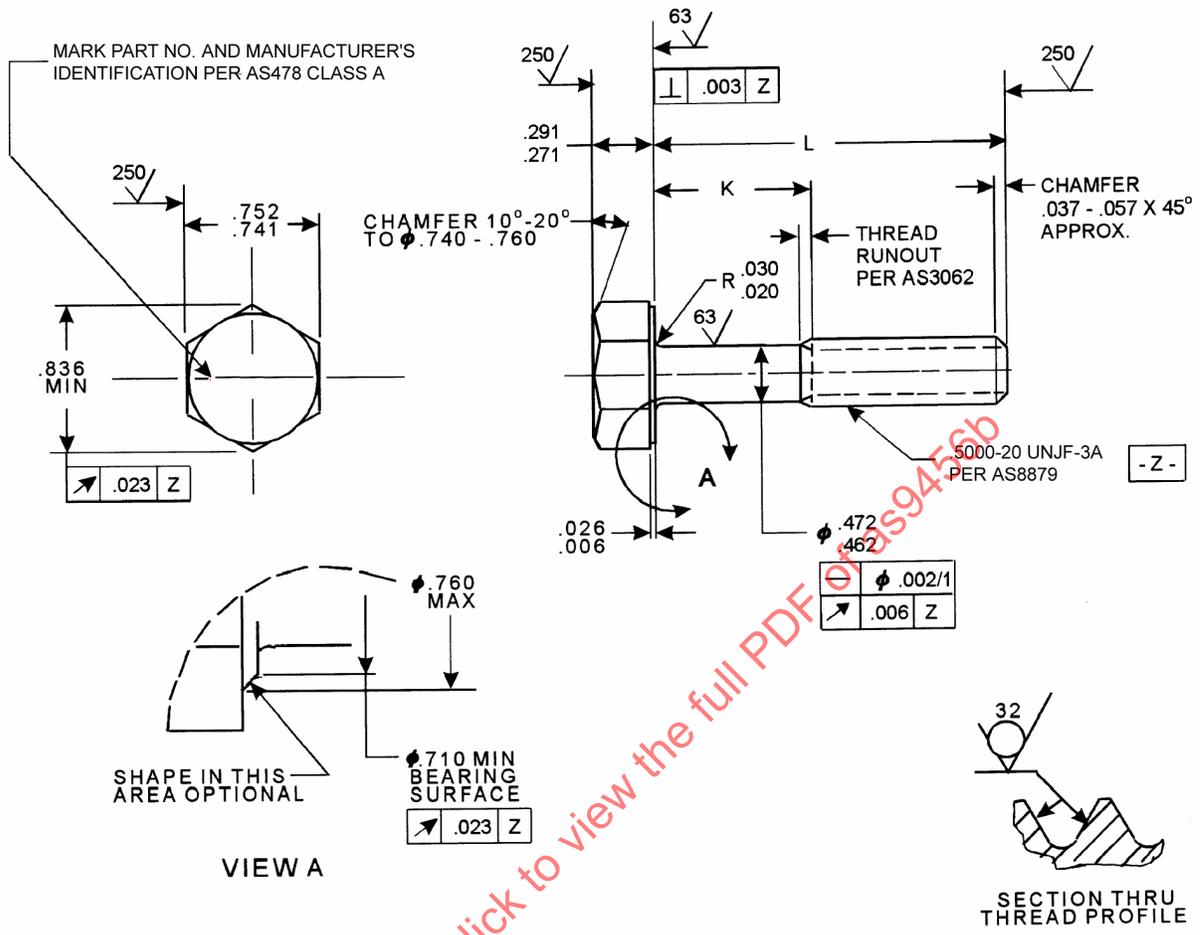


FIGURE 1 - BOLT

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:

- 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 MICRINCHES Ra.
- BREAK SHARP EDGES .003-.015, UNLESS OTHERWISE SPECIFIED.
- DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982 (ASME PUBLICATION).