

FEDERAL SUPPLY CLASS
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AS9453

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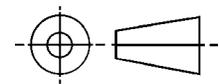
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THIRD ANGLE PROJECTION



ISSUED 1998-08 REVISED 2001-12

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

SAE The Engineering Society
For Advancing Mobility
Land Sea Air and Space
INTERNATIONAL
400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARD
(R) BOLT, MACHINE - STEEL, DIFFUSED NICKEL-
CADMIUM PLATED, HEXAGON HEAD,
UNS K14675, 195 KSI MIN, .3125-24 UNJF-3A

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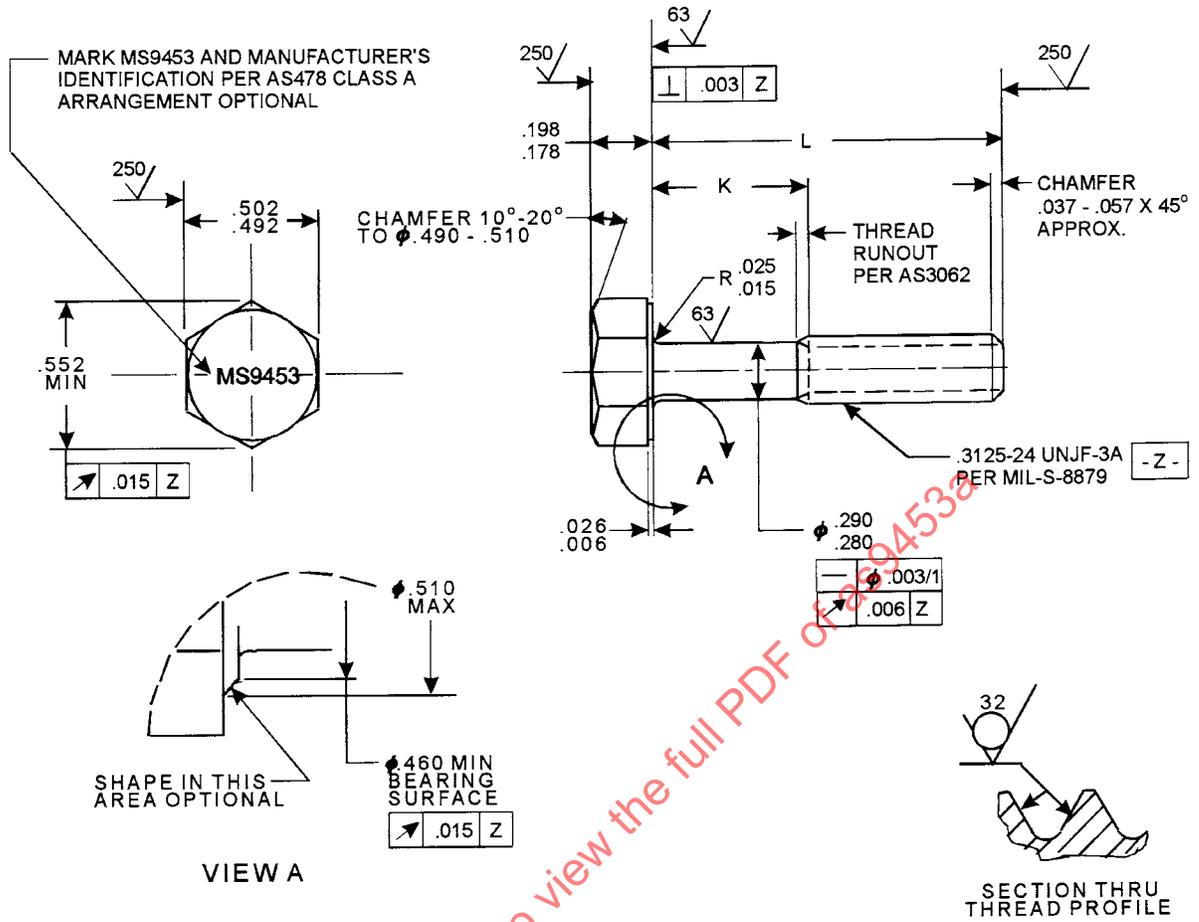


FIGURE 1 - BOLT

AEROSPACE STANDARD

(R) BOLT, MACHINE - STEEL, DIFFUSED NICKEL-CADMIUM PLATED, HEXAGON HEAD, UNS K14675, 195 KSI MIN, .3125-24 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
MS9453-04	.490 - .510	.088 - .108	2.05	MS9453-34	2.990 - 3.010	2.065 - 2.125	6.55
MS9453-05	.552 - .572	.088 - .108	2.16	MS9453-35	3.115 - 3.135	2.190 - 2.250	6.78
MS9453-06	.615 - .635	.088 - .108	2.27	MS9453-36	3.240 - 3.260	2.315 - 2.375	7.01
MS9453-07	.678 - .698	.088 - .108	2.38	MS9453-37	3.365 - 3.385	2.440 - 2.500	7.23
MS9453-08	.740 - .760	.088 - .108	2.49	MS9453-38	3.490 - 3.510	2.565 - 2.625	7.46
MS9453-09	.802 - .822	.088 - .108	2.60	MS9453-39	3.615 - 3.635	2.690 - 2.750	7.68
MS9453-10	.865 - .885	.088 - .108	2.72	MS9453-40	3.740 - 3.760	2.815 - 2.875	7.91
MS9453-11	.928 - .948	.088 - .108	2.83	MS9453-41	3.865 - 3.885	2.940 - 3.000	8.13
MS9453-12	.990 - 1.010	.125 - .145	2.94	MS9453-42	3.990 - 4.010	3.065 - 3.125	8.36
MS9453-13	1.052 - 1.072	.128 - .188	3.06	MS9453-43	4.115 - 4.135	3.190 - 3.250	8.59
MS9453-14	1.115 - 1.135	.190 - .250	3.17	MS9453-44	4.240 - 4.260	3.315 - 3.375	8.81
MS9453-15	1.178 - 1.198	.252 - .312	3.28	MS9453-45	4.365 - 4.385	3.440 - 3.500	9.04
MS9453-16	1.240 - 1.260	.315 - .375	3.39	MS9453-46	4.490 - 4.510	3.565 - 3.625	9.26
MS9453-17	1.302 - 1.322	.378 - .438	3.51	MS9453-47	4.615 - 4.635	3.690 - 3.750	9.49
MS9453-18	1.365 - 1.385	.440 - .500	3.62	MS9453-48	4.740 - 4.760	3.815 - 3.875	9.71
MS9453-19	1.428 - 1.448	.502 - .562	3.73	MS9453-49	4.865 - 4.885	3.940 - 4.000	9.94
MS9453-20	1.490 - 1.510	.565 - .625	3.85	MS9453-50	4.990 - 5.010	4.065 - 4.125	10.17
MS9453-21	1.552 - 1.572	.628 - .688	3.96	MS9453-51	5.115 - 5.135	4.190 - 4.250	10.39
MS9453-22	1.615 - 1.635	.690 - .750	4.07	MS9453-52	5.240 - 5.260	4.315 - 4.375	10.62
MS9453-23	1.678 - 1.698	.752 - .812	4.18	MS9453-53	5.365 - 5.385	4.440 - 4.500	10.84
MS9453-24	1.740 - 1.760	.815 - .875	4.30	MS9453-54	5.490 - 5.510	4.565 - 4.625	11.07
MS9453-25	1.865 - 1.885	.940 - 1.000	4.52	MS9453-55	5.615 - 5.635	4.690 - 4.750	11.29
MS9453-26	1.990 - 2.010	1.065 - 1.125	4.75	MS9453-56	5.740 - 5.760	4.815 - 4.875	11.52
MS9453-27	2.115 - 2.135	1.190 - 1.250	4.97	MS9453-57	5.865 - 5.885	4.940 - 5.000	11.74
MS9453-28	2.240 - 2.260	1.315 - 1.375	5.20	MS9453-58	5.990 - 6.010	5.065 - 5.125	11.97
MS9453-29	2.365 - 2.385	1.440 - 1.500	5.43				
MS9453-30	2.490 - 2.510	1.565 - 1.625	5.65				
MS9453-31	2.615 - 2.635	1.690 - 1.750	5.88				
MS9453-32	2.740 - 2.760	1.815 - 1.875	6.10				
MS9453-33	2.865 - 2.885	1.940 - 2.000	6.33				

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.