

REV. A

SAE AS9933

FEDERAL SUPPLY CLASS
5306

RATIONALE

COMPLETELY REVISED AND REDRAWN. ADD CHANGES TO ALLOW OPTIONAL SHAPE AT BOTTOM OF LIGHTENING HOLE, ADD EXCEPTION TO EDGE DISTANCE REQUIREMENTS FOR HEADING MARKING, ADD DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982, UPDATE THREAD SPECIFICATION TO AS8879, UPDATE SURFACE FINISH REQUIREMENTS, REVISE THREAD RUNOUT TO AS3062, ADD REQUIREMENT FOR SURFACE TEXTURE SYMBOLS, ADD MIN. BEARING FACE DIAMETER, ADD DATUM REQUIREMENTS FOR -13 THRU -18 LENGTHS (NEW NOTE 1), UPDATE MAGNETIC PARTICLE INSPECTION REFERENCE, ADD CADMIUM NOTICE, AND UPDATE NOTICE, FORMATS, TABLE AND NOTES.

NOTICE

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9933 NOTICE 1 (ASG). THIS SAE STANDARD RETAINS THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

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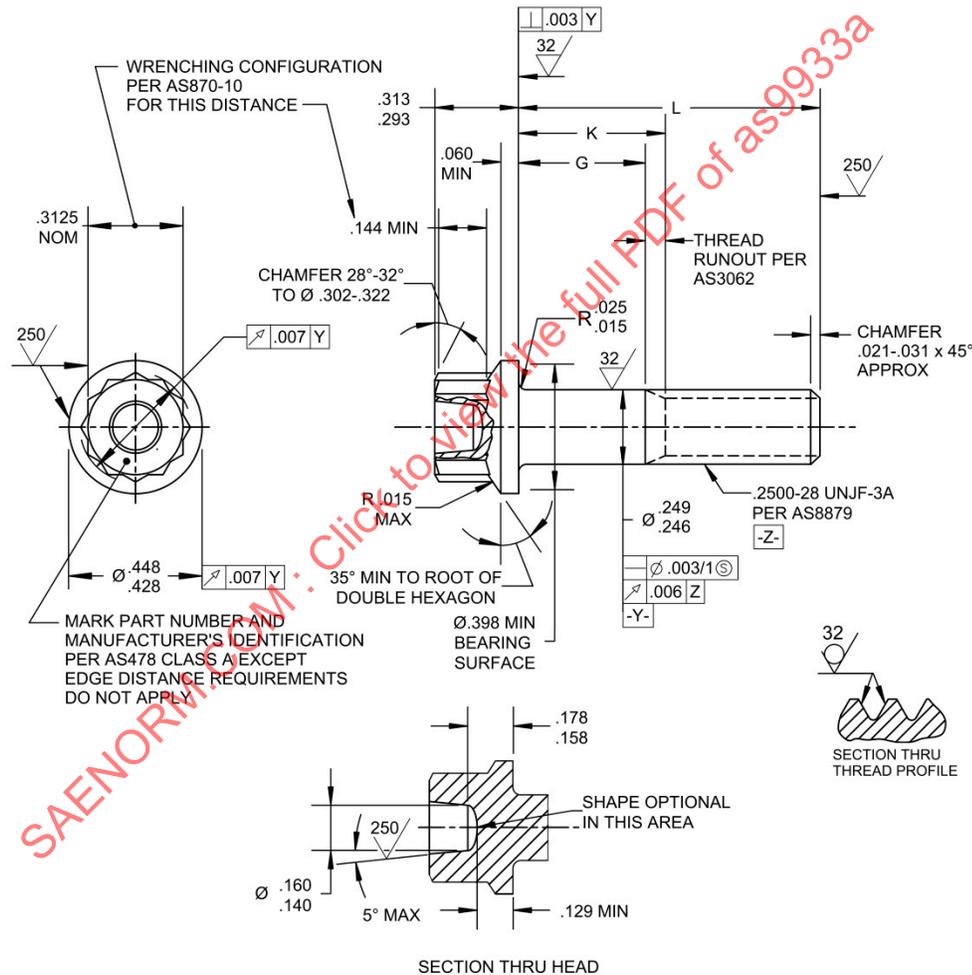
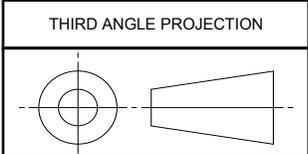


FIGURE 1 - BOLT

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CUSTODIAN: E-25

<p>An SAE International Group</p>	<p>AEROSPACE STANDARD</p> <p>(R) BOLT, MACHINE - DOUBLE HEXAGON EXTENDED WASHER HEAD, FULL SHANK, STEEL AMS6322, CADMIUM PLATED, .250-28 UNJF-3A</p>	<p>SAE AS9933</p> <p>SHEET 1 OF 3</p>	<p>REV. A</p>
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ISSUED 1998-05 REAFFIRMED 2003-10 REVISED 2011-12

TABLE 1 – PART NUMBERS AND DIMENSIONS

PART NO.	L	G MIN	K MAX	APPROX WEIGHT LB/100	PART NO.	L	G MIN	K MAX	APPROX WEIGHT LB/100
MS9933-13	.928-.948	.057	.188	1.91	MS9933-40	3.240-3.260	2.369	2.500	5.11
MS9933-14	.990-1.010	.119	.250	1.99	MS9933-41	3.365-3.385	2.494	2.625	5.29
MS9933-15	1.052-1.072	.181	.312	2.08	MS9933-42	3.490-3.510	2.619	2.750	5.46
MS9933-16	1.115-1.135	.244	.375	2.17	MS9933-43	3.615-3.635	2.744	2.875	5.63
MS9933-17	1.178-1.198	.307	.438	2.26	MS9933-44	3.740-3.760	2.869	3.000	5.81
MS9933-18	1.240-1.260	.369	.500	2.34	MS9933-45	3.865-3.885	2.994	3.125	5.98
MS9933-19	1.302-1.322	.431	.562	2.43	MS9933-46	3.990-4.010	3.119	3.250	6.15
MS9933-20	1.365-1.385	.494	.625	2.51	MS9933-47	4.115-4.135	3.244	3.375	6.33
MS9933-21	1.428-1.448	.557	.688	2.60	MS9933-48	4.240-4.260	3.369	3.500	6.50
MS9933-22	1.490-1.510	.619	.750	2.69	MS9933-49	4.365-4.385	3.494	3.625	6.67
MS9933-23	1.552-1.572	.681	.812	2.77	MS9933-50	4.490-4.510	3.619	3.750	6.85
MS9933-24	1.615-1.635	.744	.875	2.86	MS9933-51	4.615-4.635	3.744	3.875	7.02
MS9933-25	1.678-1.698	.807	.938	2.95	MS9933-52	4.740-4.760	3.869	4.000	7.19
MS9933-26	1.740-1.760	.849	1.000	3.03	MS9933-53	4.865-4.885	3.994	4.125	7.37
MS9933-27	1.802-1.822	.931	1.062	3.12	MS9933-54	4.990-5.010	4.119	4.250	7.54
MS9933-28	1.865-1.885	.994	1.125	3.21	MS9933-55	5.115-5.135	4.244	4.375	7.72
MS9933-29	1.928-1.948	1.057	1.188	3.29	MS9933-56	5.240-5.260	4.369	4.500	7.82
MS9933-30	1.990-2.010	1.119	1.250	3.38	MS9933-57	5.365-5.385	4.494	4.625	8.06
MS9933-31	2.115-2.135	1.244	1.375	3.55	MS9933-58	5.490-5.510	4.619	4.750	8.24
MS9933-32	2.240-2.260	1.369	1.500	3.73	MS9933-59	5.615-5.635	4.744	4.875	8.41
MS9933-33	2.365-2.385	1.494	1.625	3.90	MS9933-60	5.740-5.760	4.869	5.000	8.58
MS9933-34	2.490-2.510	1.619	1.750	4.07	MS9933-61	5.865-5.885	4.994	5.125	8.76
MS9933-35	2.615-2.635	1.744	1.875	4.25	MS9933-62	5.990-6.010	5.119	5.250	8.91
MS9933-36	2.740-2.760	1.869	2.000	4.42					
MS9933-37	2.865-2.885	1.994	2.125	4.59					
MS9933-38	2.990-3.010	2.119	2.250	4.77					
MS9933-39	3.115-3.135	2.244	2.375	4.94					

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