

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

REV.
A

SAE AS9490

RATIONALE

FEDERAL SUPPLY CLASS
5306

AS9490A HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9490A, 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.

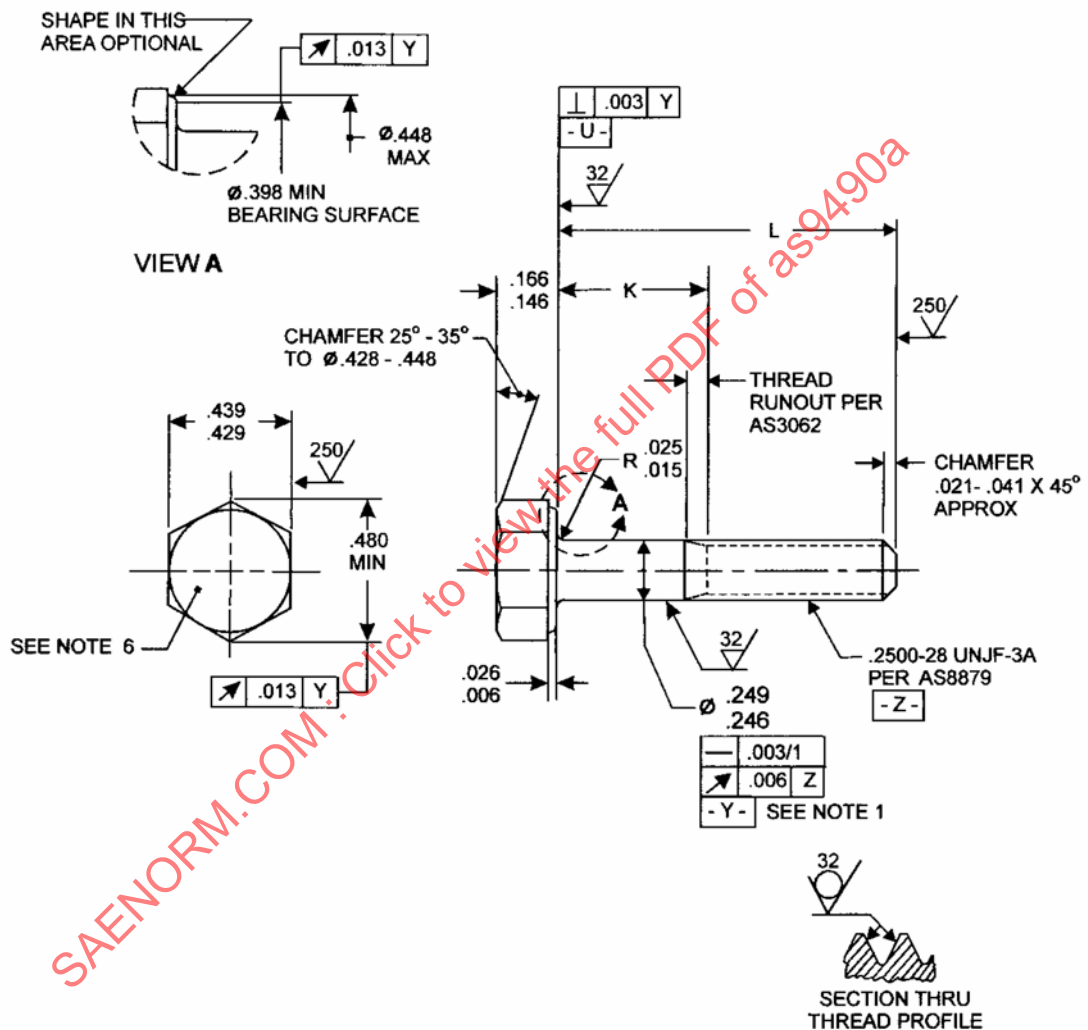
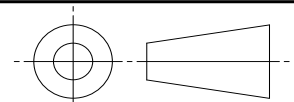


FIGURE 1 - BOLT

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS9490A>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: NONE

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

BOLT, MACHINE - HEXAGON HEAD, FULL SHANK,
CORROSION AND HEAT RESISTANT STEEL,
UNS S66286, 130 KSI MIN, .2500-28 UNJF-3A

SAE AS9490
SHEET 1 OF 3

REV.
A

TABLE 1 - PART NUMBERS AND DIMENSIONS.

PART NUMBER	L	K	APPROX. MASS LB/100	PART NUMBER	L	K	APPROX. MASS LB/100
MS9490-02	1.802 - 1.822	1.002 - 1.062	3.22	MS9490-32	2.490 - 2.510	1.690 - 1.750	4.17
MS9490-03	1.928 - 1.948	1.128 - 1.188	3.39	MS9490-33	2.615 - 2.635	1.815 - 1.875	4.34
MS9490-04	.365 - .385	.079 - .099	1.25	MS9490-34	2.740 - 2.760	1.940 - 2.000	4.51
MS9490-05	.428 - .448	.079 - .099	1.33	MS9490-35	2.865 - 2.885	2.065 - 2.125	4.69
MS9490-06	.490 - .510	.079 - .099	1.42	MS9490-36	2.990 - 3.010	2.190 - 2.250	4.86
MS9490-07	.552 - .572	.079 - .099	1.50	MS9490-37	3.115 - 3.135	2.315 - 2.375	5.03
MS9490-08	.615 - .635	.079 - .099	1.59	MS9490-38	3.240 - 3.260	2.440 - 2.500	5.20
MS9490-09	.678 - .698	.079 - .099	1.68	MS9490-39	3.365 - 3.385	2.565 - 2.625	5.37
MS9490-10	.740 - .760	.079 - .099	1.76	MS9490-40	3.490 - 3.510	2.690 - 2.750	5.55
MS9490-11	.802 - .822	.079 - .099	1.85	MS9490-41	3.615 - 3.635	2.815 - 2.875	5.72
MS9490-12	.865 - .885	.079 - .125	1.93	MS9490-42	3.740 - 3.760	2.940 - 3.000	5.89
MS9490-13	.928 - .948	.128 - .188	2.02	MS9490-43	3.865 - 3.885	3.065 - 3.125	6.06
MS9490-14	.990 - 1.010	.190 - .250	2.11	MS9490-44	3.990 - 4.010	3.190 - 3.250	6.23
MS9490-15	1.052 - 1.072	.252 - .312	2.19	MS9490-45	4.115 - 4.135	3.315 - 3.375	6.41
MS9490-16	1.115 - 1.135	.315 - .375	2.28	MS9490-46	4.240 - 4.260	3.440 - 3.500	6.58
MS9490-17	1.178 - 1.198	.378 - .438	2.36	MS9490-47	4.365 - 4.385	3.565 - 3.625	6.75
MS9490-18	1.240 - 1.260	.440 - .500	2.45	MS9490-48	4.490 - 4.510	3.690 - 3.750	6.92
MS9490-19	1.302 - 1.322	.502 - .562	2.53	MS9490-49	4.615 - 4.635	3.815 - 3.875	7.09
MS9490-20	1.365 - 1.385	.565 - .625	2.62	MS9490-50	4.740 - 4.760	3.940 - 4.000	7.27
MS9490-21	1.428 - 1.448	.628 - .688	2.71	MS9490-51	4.865 - 4.885	4.065 - 4.125	7.44
MS9490-22	1.490 - 1.510	.690 - .750	2.79	MS9490-52	4.990 - 5.010	4.190 - 4.250	7.61
MS9490-23	1.552 - 1.572	.752 - .812	2.88	MS9490-53	5.115 - 5.135	4.315 - 4.375	7.78
MS9490-24	1.615 - 1.635	.815 - .875	2.97	MS9490-54	5.240 - 5.260	4.440 - 4.500	7.95
MS9490-25	1.678 - 1.698	.878 - .938	3.05	MS9490-55	5.365 - 5.385	4.565 - 4.625	8.13
MS9490-26	1.740 - 1.760	.940 - 1.000	3.14	MS9490-56	5.490 - 5.510	4.690 - 4.750	8.30
MS9490-27	1.865 - 1.885	1.065 - 1.125	3.31	MS9490-57	5.615 - 5.635	4.815 - 4.875	8.47
MS9490-28	1.990 - 2.010	1.190 - 1.250	3.48	MS9490-58	5.740 - 5.760	4.940 - 5.000	8.61
MS9490-29	2.115 - 2.135	1.315 - 1.375	3.65	MS9490-59	5.865 - 5.885	5.065 - 5.125	8.78
MS9490-30	2.240 - 2.260	1.440 - 1.500	3.82	MS9490-60	5.990 - 6.010	5.190 - 5.250	8.95
MS9490-31	2.365 - 2.385	1.565 - 1.625	4.00				