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REV.
C

AS9699™

RATIONALE

REVISE LEAD THREAD CHAMFER TO AS1132, MINOR EDITORIAL REVISIONS.

NOTICE

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9699A, NOTICE 1. THIS SAE STANDARD MAY RETAIN THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

ANY REQUIREMENTS ASSOCIATED WITH QUALIFIED PRODUCTS LISTS (QPL'S) 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.

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5306

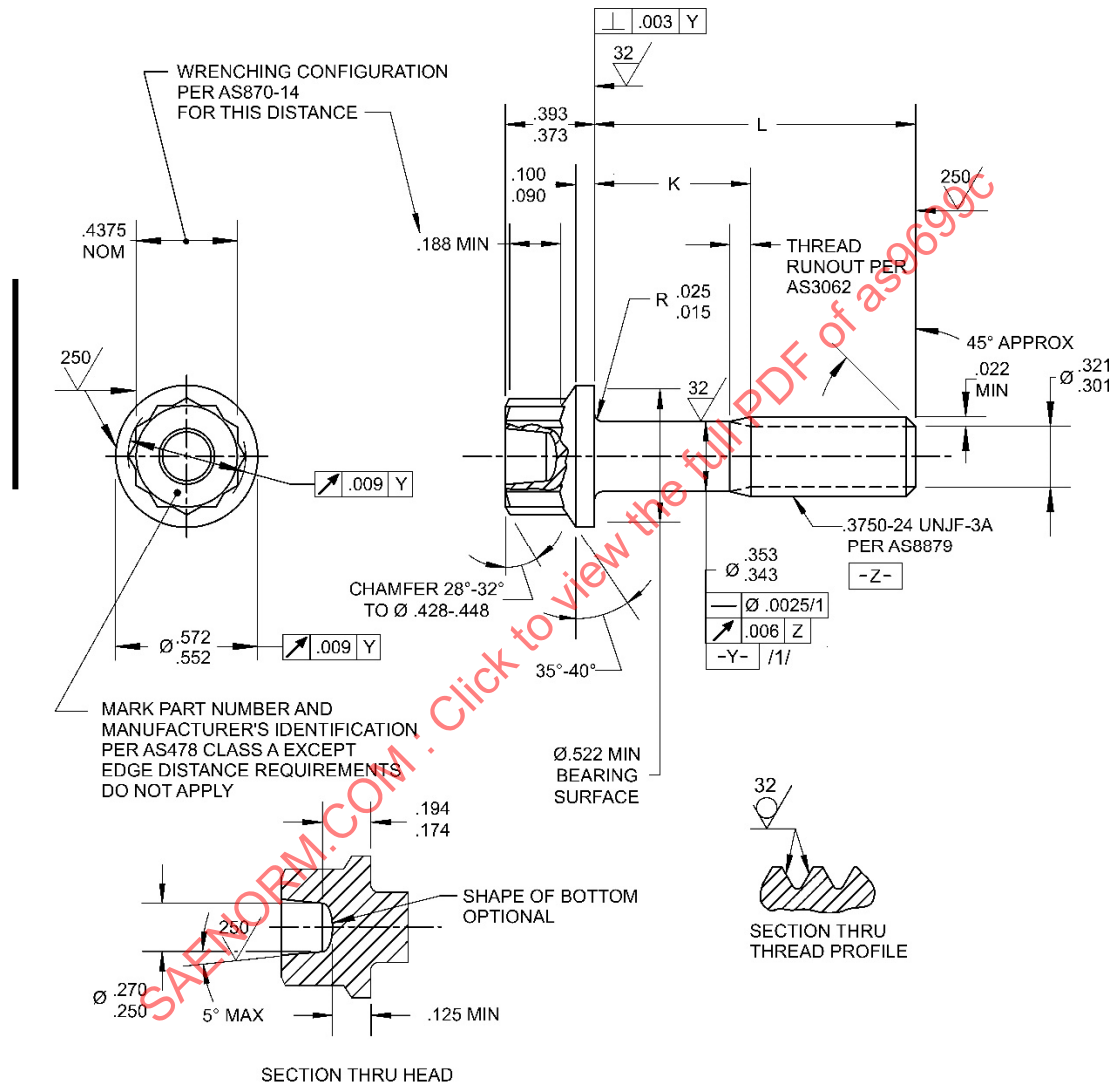
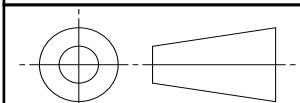


FIGURE 1 - BOLT

For more information on this standard, visit
<https://www.sae.org/standards/content/AS9699C/>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: AS7471



AEROSPACE STANDARD

BOLT, MACHINE - DOUBLE HEXAGON EXTENDED
WASHER HEAD, PD SHANK, CORROSION AND HEAT
RESISTANT NICKEL ALLOY (UNS N07001),
165 KSI MIN, .3750-24 UNJF-3A

AS9699™
SHEET 1 OF 3

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ISSUED 1999-04 REAFFIRMED 2007-06 REVISED 2021-08

TABLE 1 - PART NUMBERS AND DIMENSIONS

PART NUMBER	L	K	APPROX MASS LB/100	PART NUMBER	L	K	APPROX MASS LB/100
MS9699-04	.615- .635	.088- .108	3.55	MS9699-31	2.740-2.760	1.690-1.750	9.53
MS9699-05	.678- .698	.088- .108	3.78	MS9699-32	2.865-2.885	1.815-1.875	9.88
MS9699-06	.740- .760	.088- .108	3.90	MS9699-33	2.990-3.010	1.940-2.000	10.24
MS9699-07	.802- .822	.088- .108	4.08	MS9699-34	3.115-3.135	2.065-2.125	10.59
MS9699-08	.865- .885	.088- .108	4.25	MS9699-35	3.240-3.260	2.190-2.250	10.94
MS9699-09	.928- .948	.088- .108	4.43	MS9699-36	3.365-3.385	2.315-2.375	11.29
MS9699-10	.990-1.010	.088- .108	4.61	MS9699-37	3.490-3.510	2.440-2.500	11.64
MS9699-11	1.052-1.072	.088- .108	4.78	MS9699-38	3.615-3.635	2.565-2.625	11.99
MS9699-12	1.115-1.135	.088- .125	4.96	MS9699-39	3.740-3.760	2.690-2.750	12.35
MS9699-13	1.178-1.198	.128- .188	5.14	MS9699-40	3.865-3.885	2.815-2.875	12.70
MS9699-14	1.240-1.260	.190- .250	5.31	MS9699-41	3.990-4.010	2.940-3.000	13.05
MS9699-15	1.302-1.322	.252- .312	5.48	MS9699-42	4.115-4.135	3.065-3.125	13.40
MS9699-16	1.365-1.385	.315- .375	5.66	MS9699-43	4.240-4.260	3.190-3.250	13.76
MS9699-17	1.428-1.448	.378- .438	5.84	MS9699-44	4.365-4.385	3.315-3.375	14.11
MS9699-18	1.490-1.510	.440- .500	6.01	MS9699-45	4.490-4.510	3.440-3.500	14.46
MS9699-19	1.552-1.572	.502- .562	6.19	MS9699-46	4.615-4.635	3.565-3.625	14.81
MS9699-20	1.615-1.635	.565- .625	6.36	MS9699-47	4.740-4.760	3.690-3.750	15.16
MS9699-21	1.678-1.698	.628- .688	6.54	MS9699-48	4.865-4.885	3.815-3.875	15.51
MS9699-22	1.740-1.760	.690- .750	6.72	MS9699-49	4.990-5.010	3.940-4.000	15.87
MS9699-23	1.802-1.822	.752- .812	6.89	MS9699-50	5.115-5.135	4.065-4.125	16.22
MS9699-24	1.865-1.885	.815- .875	7.07	MS9699-51	5.240-5.260	4.190-4.250	16.57
MS9699-25	1.990-2.010	.940-1.000	7.42	MS9699-52	5.365-5.385	4.315-4.375	16.92
MS9699-26	2.115-2.135	1.065-1.125	7.77	MS9699-53	5.490-5.510	4.440-4.500	17.27
MS9699-27	2.240-2.260	1.190-1.250	8.13	MS9699-54	5.615-5.635	4.565-4.625	17.62
MS9699-28	2.365-2.385	1.315-1.375	8.48	MS9699-55	5.740-5.760	4.690-4.750	17.98
MS9699-29	2.490-2.510	1.440-1.500	8.83	MS9699-56	5.865-5.885	4.815-4.875	18.33
MS9699-30	2.615-2.635	1.565-1.625	9.18	MS9699-57	5.990-6.010	4.940-5.000	18.68

NOTES:

- 1/1/ FOR PART NUMBERS MS9699-04 THROUGH MS9699-14, DATUM Z (THREAD PD) SHALL REPLACE DATUM Y.
2. MATERIAL: AMS5708 CORROSION AND HEAT RESISTANT NICKEL ALLOY (COMPOSITION SIMILAR TO UNS N07001).
3. PROCUREMENT SPECIFICATION: AS7471.
4. FLUORESCENT PENETRANT INSPECTION PER ASTM E1417/E1417M, TYPE 1, SENSITIVITY LEVEL 2 MIN.
5. EXCEPT FOR PART NUMBERS MS9699-14 AND SMALLER, HEAD TO SHANK FILLET SHALL BE COLD ROLLED. COLD ROLLING SHALL BE SUFFICIENT TO REMOVE ALL VISUAL EVIDENCE OF GRINDING OR TOOL MARKS.
6. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES Ra.
7. BREAK SHARP EDGES .003 TO .015, UNLESS OTHERWISE SPECIFIED.
8. DIMENSIONS ARE IN INCHES.
9. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982 (ASME PUBLICATION).
10. UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.

	AEROSPACE STANDARD	AS9699™ SHEET 2 OF 3	REV. C
	BOLT, MACHINE - DOUBLE HEXAGON EXTENDED WASHER HEAD, PD SHANK, CORROSION AND HEAT RESISTANT NICKEL ALLOY (UNS N07001), 165 KSI MIN. 3750-24 UNJF-3A		