

REV. C

AS9699™

FEDERAL SUPPLY CLASS
5306

RATIONALE

REVISE LEAD THREAD CHAMFER TO AS1132, MINOR EDITORIAL REVISIONS.

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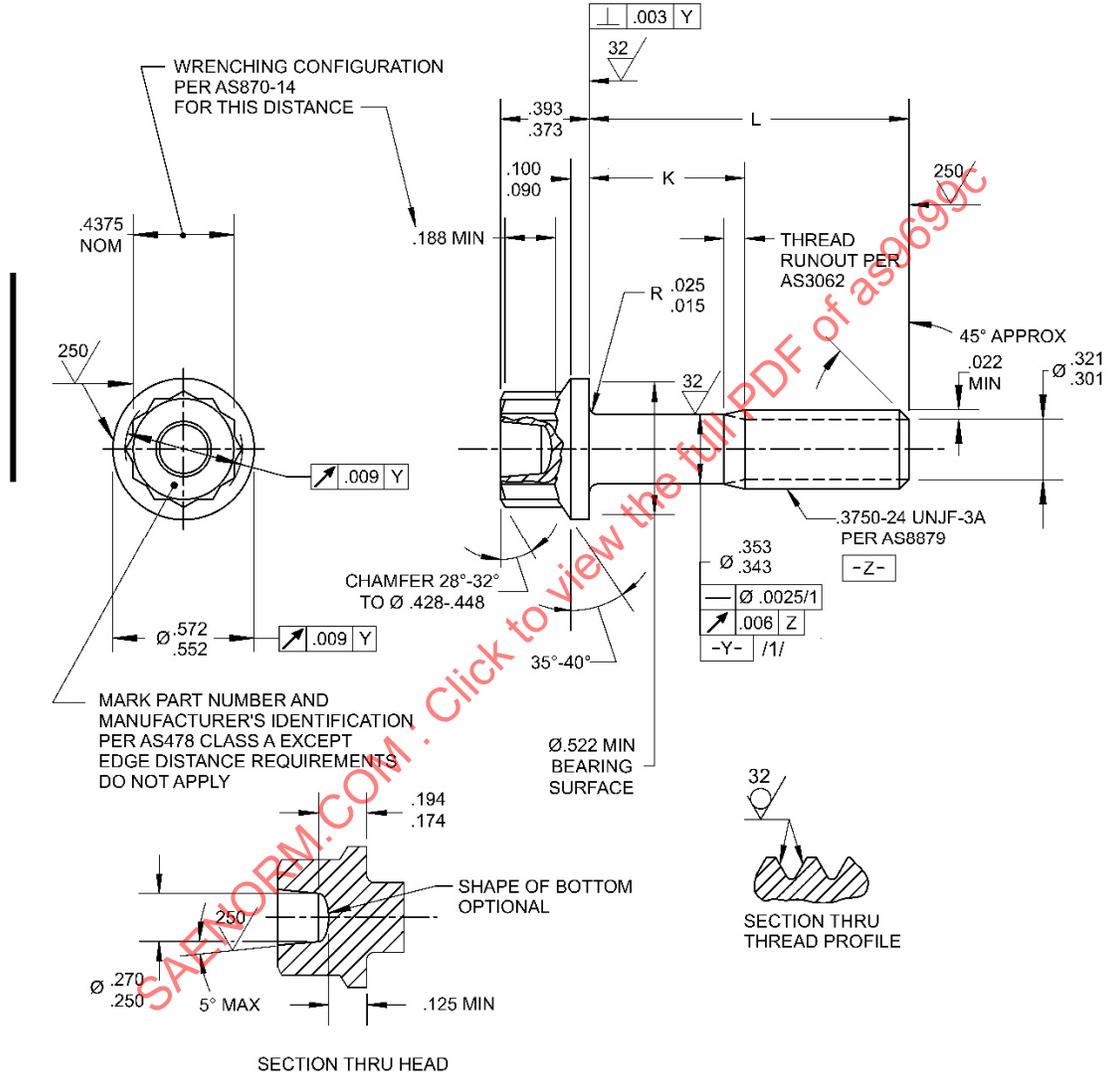
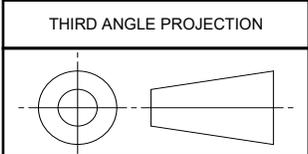


FIGURE 1 - BOLT

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



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:

- FOR PART NUMBERS MS9699-04 THROUGH MS9699-14, DATUM Z (THREAD PD) SHALL REPLACE DATUM Y.
- MATERIAL: AMS5708 CORROSION AND HEAT RESISTANT NICKEL ALLOY (COMPOSITION SIMILAR TO UNS N07001).
- PROCUREMENT SPECIFICATION: AS7471.
- FLUORESCENT PENETRANT INSPECTION PER ASTM E1417/E1417M, TYPE 1, SENSITIVITY LEVEL 2 MIN.
- 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.
- SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES Ra.
- BREAK SHARP EDGES .003 TO .015, UNLESS OTHERWISE SPECIFIED.
- DIMENSIONS ARE IN INCHES.
- DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982 (ASME PUBLICATION).
- 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 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 2 OF 3	REV. C