

REV.
D

SAE AS9218

RATIONALE

FEDERAL SUPPLY CLASS
5305

REDRAWN WITH GENERAL FORMAT REVISIONS. GENERAL REVISION TO ALLOW OPTIONAL SHAPE AT BOTTOM OF LIGHTENING HOLE, ADD EXCEPTION TO EDGE DISTANCE REQUIREMENTS FOR HEAD MARKING, RELOCATE RUNOUT REQUIREMENT FOR WRENCHING ELEMENT, ADD AS3062 AND DELETE NOTE ON FILLET FOR INCOMPLETE THREAD REQUIREMENTS, UPDATE CADMIUM NOTICE.

NOTICE

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9218, NOTICE 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.

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 reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

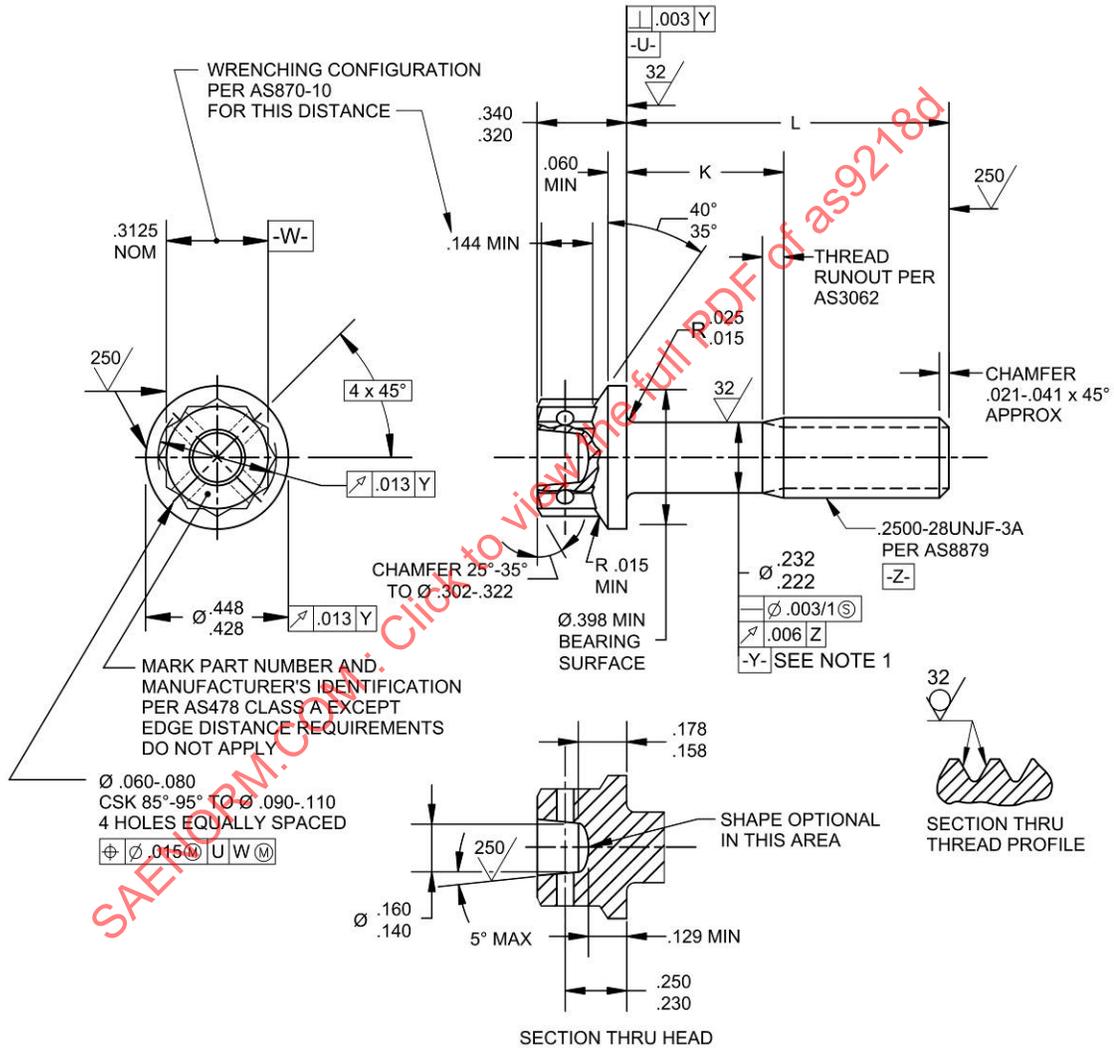
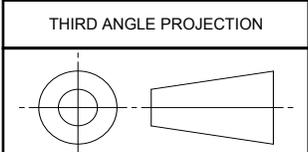


FIGURE 1 - BOLT

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS9218D>



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: AS7459

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD
BOLT, MACHINE - STEEL, DIFFUSED NICKEL-CADMIUM PLATED, DOUBLE HEXAGON EXTENDED WASHER HEAD, DRILLED, UNS K14675, 195 KSI MIN, .2500-28 UNJF-3A

SAE AS9218
SHEET 1 OF 3

REV. D

ISSUED 1999-12 REVISED 2011-09

TABLE 1 - PART NUMBERS AND DIMENSIONS

PART NO.	L	K	APPROX. MASS LB/100	PART NO.	L	K	APPROX. MASS LB/100.
MS9218-04	.365-.385	.079-.099	1.14	MS9218-34	2.740-2.760	1.940-2.000	3.85
MS9218-05	.428-.448	.079-.099	1.21	MS9218-35	2.865-2.885	2.065-2.125	4.00
MS9218-06	.490-.510	.079-.099	1.29	MS9218-36	2.990-3.010	2.190-2.250	4.14
MS9218-07	.552-.572	.079-.099	1.36	MS9218-37	3.115-3.135	2.315-2.375	4.29
MS9218-08	.615-.635	.079-.099	1.44	MS9218-38	3.240-3.260	2.440-2.500	4.43
MS9218-09	.678-.698	.079-.099	1.51	MS9218-39	3.365-3.385	2.565-2.625	4.58
MS9218-10	.740-.760	.079-.099	1.58	MS9218-40	3.490-3.510	2.690-2.750	4.72
MS9218-11	.802-.822	.079-.099	1.65	MS9218-41	3.615-3.635	2.815-2.875	4.85
MS9218-12	.865-.885	.125-.145	1.72	MS9218-42	3.740-3.760	2.940-3.000	4.99
MS9218-13	.928-.948	.128-.188	1.79	MS9218-43	3.865-3.885	3.065-3.125	5.13
MS9218-14	.990-1.010	.190-.250	1.86	MS9218-44	3.990-4.010	3.190-3.250	5.27
MS9218-15	1.052-1.072	.252-.312	1.93	MS9218-45	4.115-4.135	3.315-3.375	5.42
MS9218-16	1.115-1.135	.315-.375	2.00	MS9218-46	4.240-4.260	3.440-3.500	5.56
MS9218-17	1.178-1.198	.378-.438	2.08	MS9218-47	4.365-4.385	3.565-3.625	5.71
MS9218-18	1.240-1.260	.440-.500	2.15	MS9218-48	4.490-4.510	3.690-3.750	5.85
MS9218-19	1.302-1.322	.502-.562	2.22	MS9218-49	4.615-4.635	3.815-3.875	6.00
MS9218-20	1.365-1.385	.565-.625	2.29	MS9218-50	4.740-4.760	3.940-4.000	6.14
MS9218-21	1.428-1.448	.628-.688	2.36	MS9218-51	4.865-4.885	4.065-4.125	6.29
MS9218-22	1.490-1.510	.690-.750	2.43	MS9218-52	4.990-5.010	4.190-4.250	6.43
MS9218-23	1.552-1.572	.752-.812	2.50	MS9218-53	5.115-5.135	4.315-4.375	6.56
MS9218-24	1.615-1.635	.815-.875	2.57	MS9218-54	5.240-5.260	4.440-4.500	6.70
MS9218-25	1.678-1.698	.878-.938	2.64	MS9218-55	5.365-5.385	4.565-4.625	6.84
MS9218-26	1.740-1.760	.940-1.000	2.72	MS9218-56	5.490-5.510	4.690-4.750	6.99
MS9218-27	1.865-1.885	1.065-1.125	2.86	MS9218-57	5.615-5.635	4.815-4.875	7.13
MS9218-28	1.990-2.010	1.190-1.250	3.00	MS9218-58	5.740-5.760	4.940-5.000	7.28
MS9218-29	2.115-2.135	1.315-1.375	3.14	MS9218-59	5.865-5.885	5.065-5.125	7.42
MS9218-30	2.240-2.260	1.440-1.500	3.29	MS9218-60	5.990-6.010	5.190-5.250	7.57
MS9218-31	2.365-2.385	1.565-1.625	3.43				
MS9218-32	2.490-2.510	1.690-1.750	3.57				
MS9218-33	2.615-2.635	1.815-1.875	3.71				

NOTICE

THIS DOCUMENT REFERENCES A PART WHICH CONTAINS CADMIUM AS A PLATING MATERIAL. CONSULT LOCAL OFFICIALS IF YOU HAVE QUESTIONS CONCERNING CADMIUM'S USE.

NOTES:

- FOR PARTS NUMBERS MS9218-04 THRU MS9218-17 THE THREADED PD (DATUM \boxed{Z}) SHALL REPLACE DATUM \boxed{Y} .
- MATERIAL: LOW ALLOY STEEL PER AMS6304 (UNS K14675).
- PROCUREMENT SPECIFICATION: AS7459
- HARDNESS: 42 TO46 HRC.
- FINISH: DIFFUSED NICKEL-CADMIUM PLATE PER AMS2416. DIMENSIONS ARE AFTER PLATING. CONTACT POINTS PERMISSIBLE. PD MAY BE REDUCED .0012 MAXIMUM BEFORE PLATING.

 An SAE International Group	AEROSPACE STANDARD	SAE AS9218 SHEET 2 OF 3	REV. D
	BOLT, MACHINE - STEEL, DIFFUSED NICKEL-CADMIUM PLATED, DOUBLE HEXAGON EXTENDED WASHER HEAD, DRILLED, UNS K14675, 195 KSI MIN, .2500-28 UNJF-3A		