

FED. SUPPLY CLASS

5306

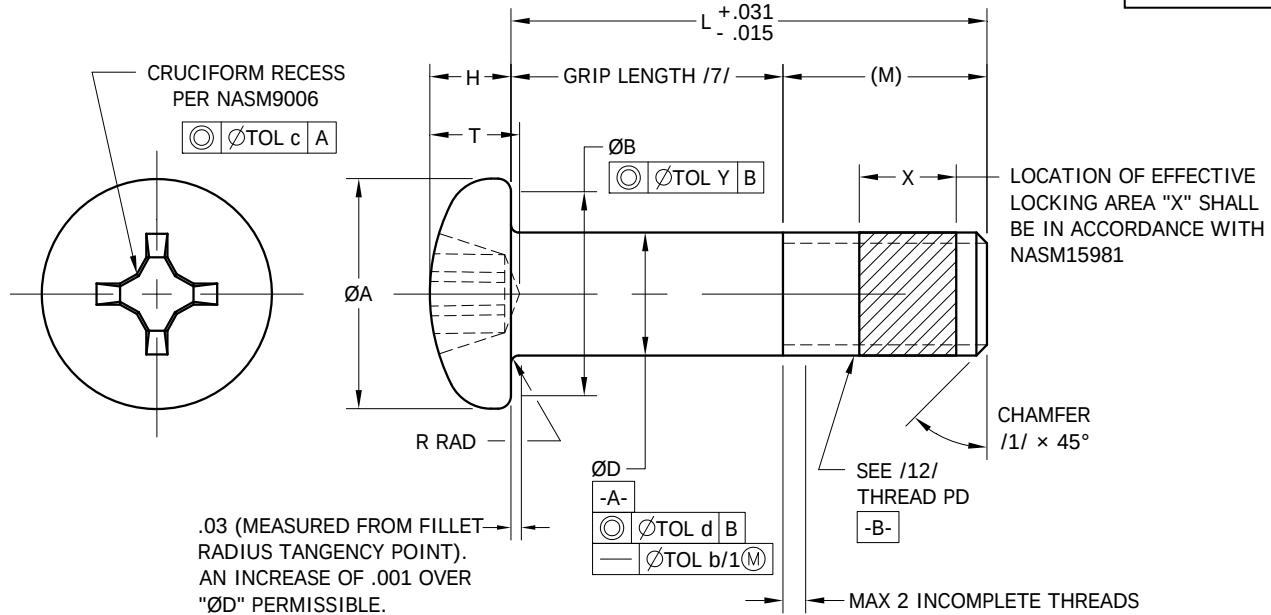


TABLE I – DIMENSIONS

DASH NO. DIA	THREAD	ØA MAX MIN	ØB MIN	ØD MAX MIN	H MAX MIN	(M) MAX	R RAD MAX MIN	T MAX	Y	TOLERANCE VALUES			ULTIMATE TENSILE LBF MIN /2/	DOUBLE SHEAR LBF MIN	DRIVER SIZE
										b	c	d			
04	.1120-40 UNC-3A	.219 .205	.195	.1120 .1095	.080 .070	.250	.015 .010	.090	.005	.0040	.016	.0045	760	1,480	1
06	.1380-32 UNC-3A	.270 .256	.242	.1380 .1355	.097 .087	.312		.111					1,120	2,240	2
08	.1640-32 UNC-3A	.322 .306	.289	.1635 .1610	.115 .105	.437	.127	1,740					3,170	2	
3	.1900-32 UNF-3A	.373 .357	.331	.1895 .1870	.133 .122	.406	.020 .010	.145	.006				2,420	4,250	2
4	.2500-28 UNF-3A	.492 .473	.424	.2495 .2470	.175 .162	.469		.192	.008	.0030	4,420	7,360	3		
5	.3125-24 UNF-3A	.615 .594	.518	.3120 .3095	.218 .203	.531	.287	.009	.024		.0060	7,100	11,500	4	
6	.3750-24 UNF-3A	.740 .716	.611	.3745 .3720	.261 .244	.641	.025	.266		.010		.0025	10,790	16,560	4
7	.4375-20 UNF-3A	.863 .838	.706	.4370 .4345	.304 .286	.656		—					—	.0020	14,600
8	.5000-20 UNF-3A	.987 .958	.801	.4995 .4970	.348 .327	.781	.030 .020	—		—		19,810	29,400		4

① COMPLETELY REVISED

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS21096, REVISION C. PART NUMBERS REMAIN MS21096.

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 1
PROCUREMENT SPECIFICATION NOTED	TITLE BOLT, SELF-LOCKING, 75 KSI Fsu, 125 KSI FtU, PAN HEAD, CRUCIFORM RECESS	CLASSIFICATION PART STANDARD
		MS21096 SHEET 1 OF 4

MATERIAL:

ALLOY STEEL – 4340 (UNS G43406) IN ACCORDANCE WITH ~~AMS-S-5000~~ AMS6484 OR AMS6415
OR 8740 (UNS G87400) IN ACCORDANCE WITH AMS6322, AMS6325 OR AMS6327.

FINISH:

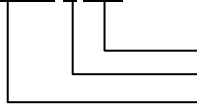
CADMIUM PLATED IN ACCORDANCE WITH AMS-QQ-P-416, TYPE II, CLASS 3.

CODE:

THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER, A DASH, AND THE CONCATENATION OF
THE DIAMETER DASH NUMBER FROM TABLE I AND LENGTH DASH NUMBER FROM TABLE II.

EXAMPLE OF PART NUMBER:

MS21096-4 008 = BOLT, SELF-LOCKING, .2500-28 UNF-3A, GRIP .500.



GRIP DASH NUMBER
 DIAMETER DASH NUMBER
 BASIC PART NUMBER

NOTES:

- /1/ CHAMFER LENGTH FROM END TO FIRST COMPLETE THREAD NOT TO EXCEED 2 THREAD PITCHES INCLUDING CHAMFER.
- /2/ BASED ON 125 KSI ULTIMATE TENSILE STRENGTH AND STRESS AREA = $\pi(E/2 - 3H/16)^2$. SEE FED-STD-H28/1.
- (3) ~~REVISION LETTERS ARE NOT USED TO DENOTE CHANGES DUE TO THE EXTENSIVENESS OF THE CHANGES.~~
- (4) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (5) UNLESS OTHERWISE SPECIFIED HEREIN, REFERENCED DOCUMENTS SHALL BE THE ISSUE IN EFFECT ON DATE OF MANUFACTURE. HOWEVER, EXISTING MATERIAL INVENTORY CERTIFIED TO A PREVIOUS REVISION OF THE APPLICABLE MATERIAL SPECIFICATION(S) IS ACCEPTABLE FOR USE UNTIL DEPLETION.
- (6) AMS DOCUMENTS ARE SAE PUBLICATIONS.
- /7/ GRIP LENGTH IS MEASURED FROM THE UNDERSIDE OF HEAD TO END OF FULL CYLINDRICAL PORTION OF SHANK.
- (8) UNASSIGNED DASH NUMBERS SHALL NOT BE USED EXCEPT THOSE DASH NUMBERS INCLUDED BY THE FOLLOWING CODING NOTE:

DASH NUMBERS INDICATE PREFERRED GRIP LENGTHS IN .125 INCREMENTS FOR LENGTHS LONGER THAN .250 INCHES. INTERMEDIATE GRIP LENGTHS BETWEEN THESE LENGTHS LISTED, MAY BE SPECIFIED IN .062 INCREMENTS BY INTERMEDIATE DASH NUMBERS. LENGTH AND GRIP OF A BOLT WITH AN ODD NUMBER FOR THE DASH NUMBER WILL BE .062 GREATER THAN SHOWN FOR THE BOLT WITH THE PRECEDING EVEN DASH NUMBER.

① COMPLETELY REVISED

REVISION

1

NASM21096

SHEET 2



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