

FED. SUPPLY CLASS

5306

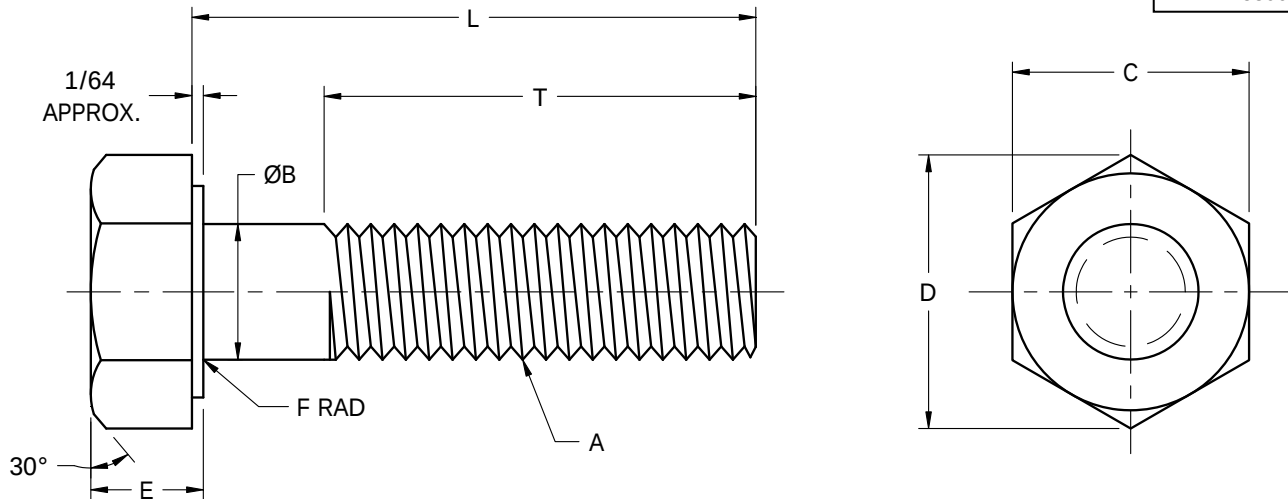


TABLE I – DIMENSIONS

NOMINAL SIZE	A THREADS PER INCH	ØB BODY DIAMETER		C WIDTH ACROSS FLATS		D WIDTH ACROSS CORNERS		E HEAD HEIGHT		F RADIUS	
		MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1/4	20 UNC-2A	.250	.217	.437	.425	.505	.484	.163	.150	.031	.009
5/16	18 UNC-2A	.312	.276	.500	.484	.577	.552	.211	.195	.031	.009
3/8	16 UNC-2A	.375	.334	.562	.544	.650	.620	.243	.226	.031	.009
7/16	14 UNC-2A	.437	.394	.625	.603	.722	.687	.291	.272	.031	.009
1/2	13 UNC-2A	.500	.450	.750	.725	.966	.926	.323	.302	.031	.009
5/8	11 UNC-2A	.625	.566	.937	.906	1.083	1.033	.403	.378	.062	.021
3/4	10 UNC-2A	.750	.685	1.125	1.088	1.299	1.240	.483	.455	.062	.021
7/8	9 UNC-2A	.875	.803	1.312	1.269	1.516	1.447	.563	.531	.062	.021
1	8 UNC-2A	1.000	.919	1.500	1.450	1.732	1.653	.627	.591	.093	.062
1-1/8	7 UNC-2A	1.125	1.032	1.687	1.631	1.949	1.859	.718	.658	.093	.062
1-1/4	7 UNC-2A	1.250	1.157	1.875	1.812	2.165	2.066	.813	.749	.093	.062
1-3/8	6 UNC-2A	1.375	1.267	2.062	1.994	2.382	2.273	.878	.810	.093	.062
1-1/2	6 UNC-2A	1.500	1.392	2.250	2.175	2.578	2.480	.974	.902	.093	.062

① COMPLETELY REVISED

THE INITIAL RELEASE OF THIS DOCUMENT SUPSEDES MS16205, REVISION A. PART NUMBERS REMAIN MS16205.

THIRD ANGLE PROJECTION		CUSTODIAN		REVISION	
		NATIONAL AEROSPACE STANDARDS COMMITTEE		1	
PROCUREMENT SPECIFICATION	MIL-DTL-1222	TITLE		CLASSIFICATION	
		BOLT, MACHINE, REGULAR SEMI-FINISHED HEXAGON HEAD, COPPER-SILICON ALLOY (SILICON BRONZE), UNC-2A, NON-MAGNETIC ①		PART STANDARD	

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SHEET 1 OF 3

MATERIAL:

COPPER SILICON ALLOY (SILICON BRONZE) – 651 (UNS C65100) IN ACCORDANCE WITH QQ-C-591.

FINISH:

NONE.

NOTES:

- (1) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (2) 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.
- (3) THREADS: UNC-2A SHALL BE IN ACCORDANCE WITH FED-STD-H28.
- (4) MINIMUM THREAD LENGTH SHALL BE TWICE THE NOMINAL SIZE (DIAMETER) PLUS 1/4 INCH FOR BOLT LENGTHS 6 INCHES AND LESS, AND TWICE THE NOMINAL SIZE PLUS 1/2 INCH FOR BOLT LENGTHS OVER 6 INCHES. BOLTS TOO SHORT FOR MINIMUM THREAD LENGTH SHALL BE THREADED AS CLOSE TO THE HEAD AS PRACTICABLE.
- (5) THE MINIMUM BREAKING STRENGTH, IN TENSION, OF THE BOLTS SHALL BE AS FOLLOWS:

 SIZES TO 1/2 INCLUSIVE – 80 KSI
 SIZES 5/8 TO 7/8 INCLUSIVE – 70 KSI
 SIZES 1 TO 1-1/2 INCLUSIVE – 50 KSI

 MINIMUM ELONGATION – 10 PERCENT IN 2 INCHES.
- (6) DIMENSIONS IN INCHES.
- (7) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- (8) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.

① COMPLETELY REVISED

REVISION
1
NASM16205
SHEET 2

