

FED SUPPLY CLASS

5305

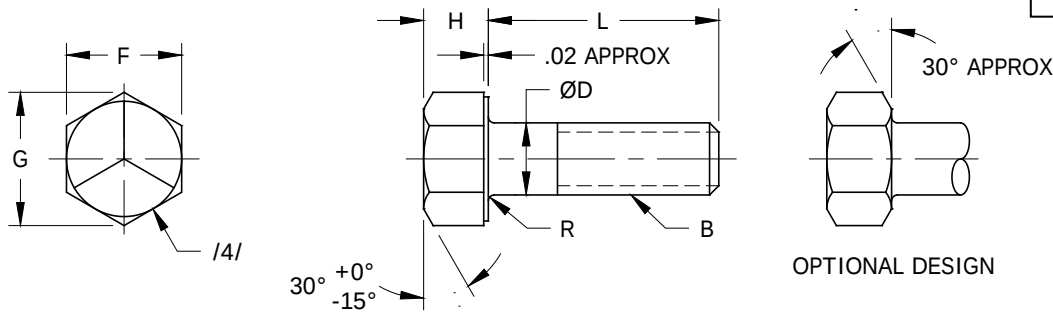


TABLE I – DIMENSIONS AND STRENGTH VALUES

NOMINAL SIZE	B THREAD UNF-2A	ØD BODY		F WIDTH ACROSS FLATS		G WIDTH ACROSS CORNERS		H HEAD HEIGHT		R RAD		TENSILE STRENGTH LBF MIN /6/
		MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	
.250	.2500-28	.2500	.2450	.4375	.4280	.505	.488	.163	.150	.025	.015	4,350
.313	.3125-24	.3125	.3065	.5000	.4890	.577	.557	.211	.195	.025	.015	6,950
.375	.3750-24	.3750	.3690	.5625	.5510	.650	.628	.243	.226	.025	.015	10,500
.438	.4375-20	.4375	.4305	.6250	.6120	.722	.698	.291	.272	.025	.015	14,200
.500	.5000-20	.5000	.4930	.7500	.7360	.866	.840	.323	.302	.025	.015	19,200
.563	.5625-18	.5625	.5545	.8125	.7980	.938	.910	.371	.348	.045	.020	24,400
.625	.6250-18	.6250	.6170	.9375	.9220	1.083	1.051	.403	.378	.045	.020	30,700
.750	.7500-16	.7500	.7410	1.1250	1.1000	1.299	1.254	.483	.455	.045	.020	44,800
.875	.8750-14	.8750	.8660	1.3125	1.2850	1.516	1.465	.563	.531	.065	.040	61,100
1.000	1.0000-12	1.0000	.9900	1.5000	1.4690	1.732	1.675	.627	.591	.095	.060	79,600
1.125	1.1250-12	1.1250	1.1140	1.6875	1.6310	1.949	1.859	.718	.658	.095	.060	89,900
1.250	1.2500-12	1.2500	1.2390	1.8750	1.8120	2.165	2.066	.813	.749	.095	.060	112,700
1.375	1.3750-12	1.3750	1.3630	2.0625	1.9940	2.382	2.273	.878	.810	.095	.060	138,100
1.500	1.5000-12	1.5000	1.4880	2.2500	2.1750	2.598	2.480	.974	.902	.095	.060	166,000

MATERIAL:

MEDIUM CARBON OR ALLOY STEEL, GRADE 5, IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.

HEAT TREAT:

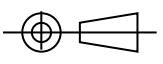
HEAT TREAT PER PROCUREMENT SPECIFICATION.

FINISH:

CADMIUM PLATING IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.

③ COMPLETELY REVISED

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS90726, REVISION B. PART NUMBERS REMAIN MS90726.

THIRD ANGLE PROJECTION		CUSTODIAN		REVISION	
		NATIONAL AEROSPACE STANDARDS COMMITTEE		3	
PROCUREMENT SPECIFICATION	FF-S-85	TITLE		CLASSIFICATION PART STANDARD	
		SCREW, CAP, HEXAGON HEAD (FINISHED HEXAGON BOLT), STEEL, GRADE 5, CADMIUM PLATED, UNF-2A		MS90726	

SHEET 1 OF 3

CODE:

MS90726 - 1
DASH NUMBER:
(TABLE II)
BASIC NUMBER

EXAMPLE OF PART NUMBER:

MS90726-1 = CAP SCREW, HEXAGON HEAD, STEEL, GRADE 5, .2500-28 UNF-2A THREAD, .375 LENGTH.

NOTES:

- (1) THREADS SHALL BE IN ACCORDANCE WITH FED-STD-H28/2. ACCEPTABILITY OF SCREW THREADS SHALL BE IN ACCORDANCE WITH FED-STD-H28/20, SYSTEM 21.
- (2) THREAD LENGTH SHALL BE IN ACCORDANCE WITH ASME B18.2.1.
- (3) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- /4/ HEADS SHALL BE MARKED IN ACCORDANCE WITH MIL-HDBK-131. RAISED MARKINGS ARE PREFERRED, STAMPINGS ARE ACCEPTABLE.
- (5) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.
- /6/ BASED ON MINIMUM ULTIMATE TENSILE STRENGTH OF 120,000 PSI FOR DIAMETERS THRU 1.000 INCH AND 105,000 PSI FOR 1.125 INCH THRU 1.500 INCH DIAMETERS. TENSILE STRENGTHS ARE CALCULATED BY THE STRESS AREAS INDICATED IN FED-STD-H28.
- (7) 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.
- (8) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (9) SCREWS LESS THAN THREE DIAMETERS IN LENGTH SHALL MEET MINIMUM AND MAXIMUM HARDNESS VALUES AS SPECIFIED IN PROCUREMENT SPECIFICATION AND SHALL BE THE ONLY MECHANICAL PROPERTY REQUIREMENT FOR ACCEPTANCE OF THESE SIZES.
- (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.

REVISION

3

NASM90726

SHEET 2

③ COMPLETELY REVISED

USE OF OR RELIANCE UPON THIS DOCUMENT OR ANY NATIONAL AEROSPACE STANDARD IS ENTIRELY VOLUNTARY. AIA DOES NOT QUALIFY SUPPLIERS OR CERTIFY ITEMS PRODUCED UNDER NATIONAL AEROSPACE STANDARDS. AIA MAKES NO REPRESENTATION OR CLAIM RESPECTING (1) THE SUITABILITY OF ITEMS FOR ANY PARTICULAR APPLICATION OR (2) THE EXISTENCE OF OR APPLICABILITY OF PATENT OR TRADEMARKS RIGHTS.