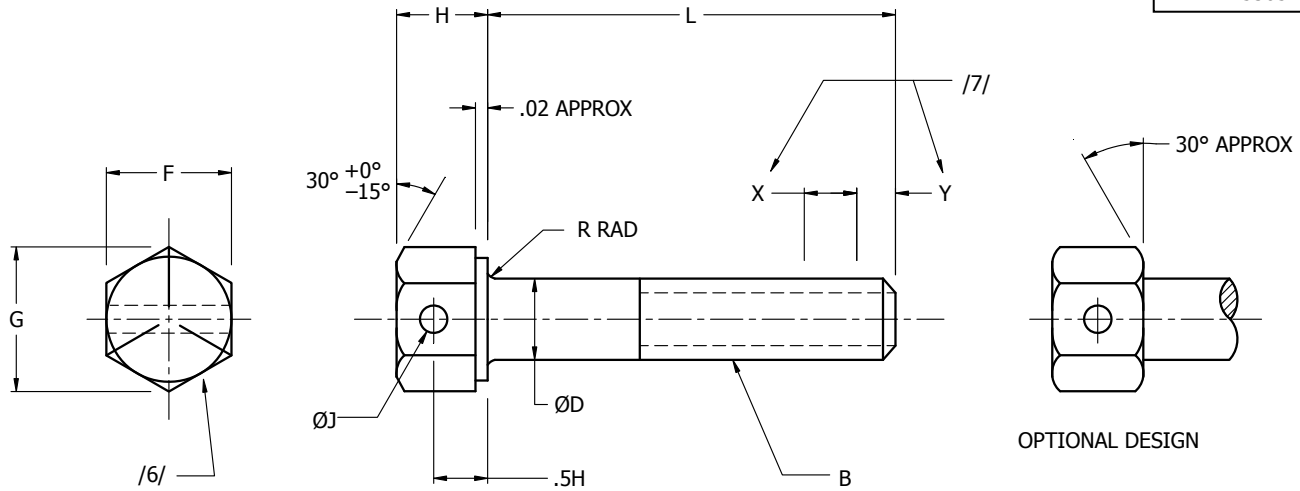


FED. SUPPLY CLASS

5305



② TABLE I – DIMENSIONS

NOM SIZE	B THREAD	ØD BODY		F WIDTH ACROSS FLATS		G WIDTH ACROSS CORNERS		H HEAD HEIGHT		.5H		ØJ HOLE +.006 -.002	R RADIUS		MIN TENSILE STRENGTH LBF
		MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN		MAX	MIN	
.250	.2500-20 UNC-2A	.2500	.2450	.4375	.4280	.505	.488	.163	.150	.088	.075	.0625	.025	.015	3,800
.313	.3125-18 UNC-2A	.3125	.3065	.5000	.4890	.577	.557	.211	.195	.114	.098	.0625	.025	.015	6,300
.375	.3750-16 UNC-2A	.3750	.3690	.5625	.5510	.650	.628	.243	.226	.130	.113	.0625	.025	.015	9,300
.438	.4375-14 UNC-2A	.4375	.4305	.6250	.6120	.722	.698	.291	.272	.155	.136	.0625	.025	.015	12,800
.500	.5000-13 UNC-2A	.5000	.4930	.7500	.7360	.866	.840	.323	.302	.172	.151	.094	.025	.015	17,000
.625	.6250-11 UNC-2A	.6250	.6170	.9375	.9220	1.083	1.051	.403	.378	.214	.189	.094	.045	.020	27,100
.750	.7500-10 UNC-2A	.7500	.7410	1.1250	1.1000	1.299	1.254	.483	.455	.256	.228	.094	.045	.020	40,100
.875	.8750- 9 UNC-2A	.8750	.8660	1.3125	1.2850	1.516	1.465	.563	.531	.298	.266	.125	.065	.040	55,400
1.000	1.0000- 8 UNC-2A	1.0000	.9900	1.5000	1.4690	1.732	1.675	.627	.591	.332	.296	.125	.095	.060	72,700

MATERIAL:

MEDIUM CARBON STEEL, GRADE 5, IN ACCORDANCE WITH PROCUREMENT SPECIFICATION. MINIMUM ULTIMATE TENSILE STRENGTH: 120 KSI.

FINISH:

CADMIUM PLATING IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS51095, REVISION F. PART NUMBERS REMAIN MS51095.

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 2	
		CLASSIFICATION PART STANDARD	
PROCUREMENT SPECIFICATION FF-S-85	TITLE SCREW, CAP, HEXAGON HEAD (FINISHED HEXAGON BOLT), HEAD DRILLED FOR LOCKING WIRE, STEEL, GRADE 5, CADMIUM PLATED, UNC-2A, PLAIN AND SELF-LOCKING	NATIONAL AEROSPACE STANDARD MS51095	
		SHEET 1 OF 3	

CODE:

THE MS PART NUMBER CONSISTS OF THE MS NUMBER, PLUS THE DASH NUMBER FROM TABLE II.
FOR SCREWS WITH SELF-LOCKING ELEMENT, ADD THE LETTER "L" AFTER THE DASH NUMBER.

EXAMPLE OF PART NUMBER:

MS51095-301 = PLAIN SCREW
MS51095-301L = SELF-LOCKING SCREW

NOTES:

- (1) THE THREADS SHALL BE IN ACCORDANCE WITH SCREW-THREAD STANDARD FED-STD-H28.
- (2) MINIMUM THREAD LENGTH SHALL BE TWICE THE DIAMETER PLUS .250 INCH. THE TOLERANCE SHALL BE PLUS .188 INCH OR 2 1/2 THREADS, WHICHEVER IS GREATER. ON SCREWS THAT ARE TOO SHORT FOR MINIMUM THREAD LENGTH, THE DISTANCE FROM THE BEARING SURFACE OF THE HEAD TO THE FIRST COMPLETE THREAD SHALL NOT EXCEED THE LENGTH OF 2 1/2 THREADS.
- (3) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (2) (4) 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.
- (5) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- /6/ HEADS SHALL BE MARKED IN ACCORDANCE WITH MIL-HDBK-131. SCREWS WITH SELF-LOCKING ELEMENTS SHALL ALSO HAVE SIX DOTS IN A CIRCULAR PATTERN ON THE HEAD. RAISED MARKINGS ARE PREFERRED, INDENTATIONS ARE ACCEPTABLE.
- /7/ SELF-LOCKING ELEMENT:
 - (a) THE SELF-LOCKING ELEMENT SHALL BE A PATCH TYPE OR LONGITUDINAL STRIP IN ACCORDANCE WITH MIL-DTL-18240.
 - (b) FOR "X" AND "Y" DIMENSIONS AND DESIGN AND USAGE LIMITATIONS, SEE NASM15981.
 - (c) MAXIMUM RING GAGE DIAMETER THAT LOCKING REGION OF SCREW MUST PASS THRU FREELY OR WITH FINGER PRESSURE SHALL BE THE NOMINAL SIZE PLUS .010.
 - (2) (d) SIZES ".313", ".438" AND ".875" SHALL NOT BE AVAILABLE WITH SELF-LOCKING ELEMENT.
- (8) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- (9) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.
- (10) INTERCHANGEABILITY: SCREWS COVERED BY DASH NUMBERS 1 THRU 223 OF MS51093 AND DASH NUMBERS 1 THRU 223 OF MS51095 ARE CANCELLED AND SUPERSEDED BY DASH NUMBERS 301 THRU 523, RESPECTIVELY, OF MS51095. CANCELLED SCREWS MAY BE USED UNTIL EXISTING STOCKS ARE DEPLETED. USE ONLY THE SUPERSEDING SCREWS OF NASM51095 FOR NEW DESIGN.

REVISION

2

NASM51095

SHEET 2



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