

FED. SUPPLY CLASS

5305

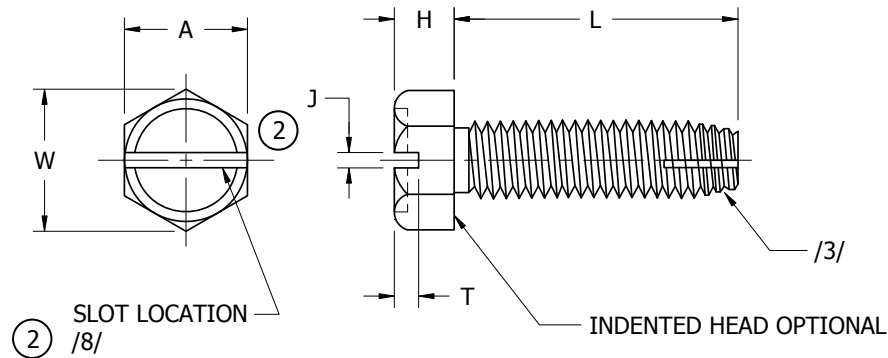


TABLE I – DIMENSIONS

NOMINAL SIZE	THREADS PER INCH	A WIDTH ACROSS FLATS		W WIDTH ACROSS CORNERS MIN	H HEAD HEIGHT		J SLOT WIDTH		T SLOT DEPTH	
		MAX	MIN		MAX	MIN	MAX	MIN	MAX	MIN
NO. 4 (.1120)	40	.187	.181	.202	.060	.049	.039	.031	.036	.025
NO. 6 (.1380)	32	.250	.244	.272	.093	.080	.046	.039	.046	.033
NO. 8 (.1640)	32	.250	.244	.272	.110	.096	.054	.045	.066	.052
NO. 10 (.1900)	24	.312	.305	.340	.120	.105	.060	.050	.072	.057
1/4 (.2500)	20	.375	.367	.409	.190	.172	.075	.064	.101	.083
5/16 (.3125)	18	.500	.489	.545	.230	.208	.084	.072	.122	.100
3/8 (.3750)	16	.562	.551	.614	.295	.270	.094	.081	.156	.131

MATERIAL:

CARBON STEEL AND CRES IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.

FINISH:

CARBON STEEL – CADMIUM PLATED IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.
CRES STEEL – PASSIVATED IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.

CODE:

THE PART NUMBER CONSISTS OF THE BASIC PART NUMBER, PLUS THE DASH NUMBER FROM TABLE II.

EXAMPLE OF PART NUMBER:

(2) MS51851-1 = CARBON STEEL SCREW, TAPPING, THREAD CUTTING, TYPE D, HEXAGON HEAD, SLOTTED, .1120-40 THREAD, .25 LONG.

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS51851. PART NUMBERS REMAIN MS51851.

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 2
PROCUREMENT SPECIFICATION FF-S-107	TITLE SCREW, TAPPING, THREAD CUTTING, TYPE D, HEXAGON HEAD, SLOTTED	CLASSIFICATION PART STANDARD
		MS51851 SHEET 1 OF 2

NOTES:

- (1) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (2) FOR APPROXIMATE HOLE SIZES SEE NASM24634.
- (2) /3/ POINT TAPER LENGTHS SHALL BE IN ACCORDANCE WITH ASME B18.6.3.
- (4) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (5) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- (6) 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.
- (7) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.
- (2) /8/ THE SLOT SHALL BE LOCATED AT TRUE POSITION RELATIVE TO THE AXIS OF THE SCREW SHANK WITHIN A TOLERANCE ZONE HAVING A DIAMETER EQUIVALENT TO 12% OF THE BASIC SCREW DIAMETER OR .020, WHICHEVER IS GREATER.

TABLE II – LENGTH DASH NUMBERS

L LENGTH		NO. 4 (.1120)		NO. 6 (.1380)		NO. 8 (.1640)		NO. 10 (.1900)		1/4 (.2500)		5/16 (.3125)		3/8 (.3750)	
		CARBON STEEL	CRES STEEL	CARBON STEEL	CRES STEEL	CARBON STEEL	CRES STEEL	CARBON STEEL	CRES STEEL	CARBON STEEL	CRES STEEL	CARBON STEEL	CRES STEEL	CARBON STEEL	CRES STEEL
.25		1	11	–	–	–	–	–	–	–	–	–	–	–	–
.31		2	12	22	32	–	–	–	–	–	–	–	–	–	–
.38	+ .00	3	13	23	33	43	53	–	–	–	–	–	–	–	–
.50	– .03	4	14	24	34	44	54	64	74	–	–	–	–	–	–
.62		5	15	25	35	45	55	65	75	85	95	–	–	–	–
.75		6	16	26	36	46	56	66	76	86	96	106	116	126	136
.88		–	–	27	37	47	57	67	77	87	97	107	117	127	137
1.00	+ .00	–	–	–	–	48	58	68	78	88	98	108	118	128	138
1.25	– .05	–	–	–	–	–	–	69	79	89	99	109	119	129	139
1.50		–	–	–	–	–	–	70	80	90	100	110	120	130	140
1.75	+ .00	–	–	–	–	–	–	–	–	91	101	111	121	131	141
2.00	– .06	–	–	–	–	–	–	–	–	92	102	112	122	132	142

REVISION

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NASM51851

SHEET 2



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