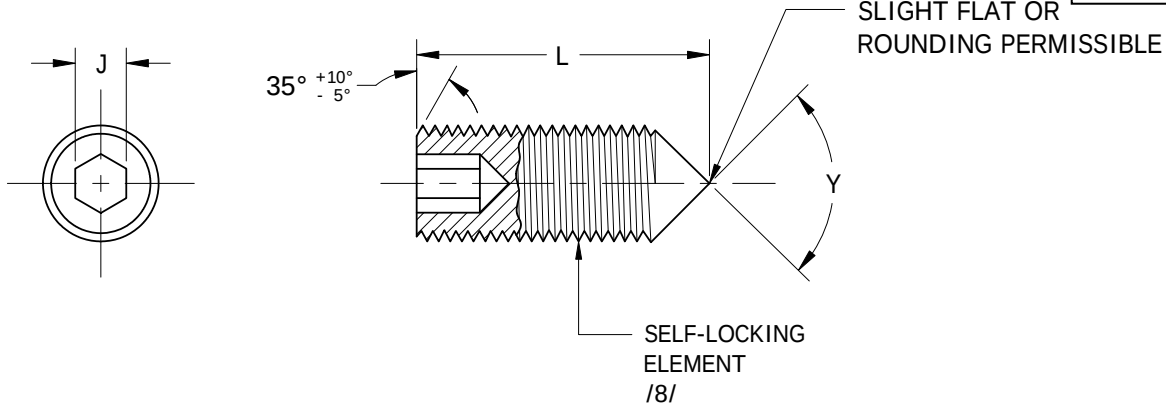


FED. SUPPLY CLASS

5305



(2)

TABLE I – DIMENSIONS

Ø NOMINAL SIZE		.0600	.0860	.1120		.1380		.1640		.1900	.2500	.3125	.3750	.5000	
THREADS PER INCH (-3A)		80 UNF	64 UNF	48 UNF	40 UNC	40 UNF	32 UNC	36 UNF	32 UNC	32 UNF	28 UNF	24 UNF	24 UNF	20 UNF	
J	SOCKET WIDTH ACROSS FLATS	NOM	.028	.035	.050		.062		.078		.094	.125	.156	.188	.250
Y	CONE POINT ANGLE	118° ± 2° FOR LENGTHS UNDER	.078	.109	.156	.188	.250	.250	.312	.375	.438	.562			
		90° ± 2° FOR THESE LENGTHS AND OVER													
L	LENGTH	TOLERANCE	DASH NUMBER												
		PLAIN	PLAIN	PLAIN	SELF LOCK	PLAIN	SELF LOCK	PLAIN	SELF LOCK	PLAIN	SELF LOCK	SELF LOCK	SELF LOCK	SELF LOCK	SELF LOCK
.094		± .010	1*	15*	25*	.101	35*	110	.121*	.133*	.144	.157	.169	.179	
.125			2*	16*	26*		36*								
.156				17*	27*		37*								
.188				18*	28*		102								
.250				19*	29*		103								
.312							104								
.375							105								
.438							106*								
.500							107								
.562							108*								
.625							109								
.750		± .020					119	130	.143	142	152	162	172	182	
.875							120	131		143	153	163	173	183	
1.000								132			143	154	164	174	184
1.250												155	165	175	185
1.500												156	166	176	186
1.750													167	177	187
2.000		± .031										168	178	188	
2.500														189	
3.000														190	

* INACTIVE FOR NEW DESIGN AFTER 29 DEC 1972. FOR DESCRIPTION OF STATUS NOTES, SEE NAS380.

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS51038, REVISION B. PART NUMBERS REMAIN MS51038.

THIRD ANGLE PROJECTION		CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 2
PROCUREMENT SPECIFICATION FF-S-200	TITLE SETSCREW, HEXAGON SOCKET, CONE POINT, CORROSION RESISTANT STEEL, PASSIVATED, UNC-3A & UNF-3A, PLAIN AND SELF-LOCKING	(2) CLASSIFICATION PART STANDARD NAS51038	

MATERIAL:

CORROSION-RESISTING STEEL, 300 SERIES, IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.

FINISH:

PASSIVATED IN ACCORDANCE WITH AMS2700, METHOD 1, CLASS 4.

CODE:

THE MS PART NUMBER CONSISTS OF THE MS NUMBER PLUS THE DASH NUMBER FROM TABLE I.

EXAMPLE OF PART NUMBER:

- ② MS51038-1 = SETSCREW, HEXAGON SOCKET, CONE POINT, 300 SERIES CRES, .0600-80 UNF-3A THREAD, .094 LENGTH, PLAIN
- ② MS51038-137 = SETSCREW, HEXAGON SOCKET, CONE POINT, 300 SERIES CRES, .1900-32 UNF-3A THREAD, .375 LENGTH, SELF-LOCKING

NOTES:

- (1) DIMENSIONS APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (2) REMOVE ALL BURRS AND SHARP EDGES.
- (3) THE THREADS SHALL BE IN ACCORDANCE WITH MIL-S-7742.
- (4) MAGNETIC PERMEABILITY SHALL BE LESS THAN 2.0 (AIR = 1.0) FOR A FIELD STRENGTH H = 200 OERSTEDS USING A MAGNETIC PERMEABILITY INDICATOR PER ASTM A342/A342M, TEST METHOD 3.
- (5) DIMENSIONS IN INCHES.
- (6) TOLERANCES UNLESS OTHERWISE SPECIFIED: ANGLES $\pm 5^\circ$.
- (7) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.
- /8/ SELF-LOCKING ELEMENT:
 - (a) THE SELF-LOCKING ELEMENT SHALL BE IN ACCORDANCE WITH MIL-DTL-18240.
 - (b) FOR DESIGN AND USAGE LIMITATIONS, SEE NASM15981.
 - (c) LOCATION OF EFFECTIVE LOCKING AREA SHALL BE IN ACCORDANCE WITH NASM15981.
 - (d) MAXIMUM RING GAGE DIAMETER THAT LOCKING REGION OF SETSCREW MUST PASS THRU FREELY OR WITH FINGER PRESSURE SHALL BE THE NOMINAL SIZE PLUS .010.
 - (e) MIL-DTL-18240 DOESN'T ESTABLISH TORQUE REQUIREMENTS FOR LENGTHS ABOVE THE DASHED LINE. ONLY A POSITIVE INDICATION OF TORQUE IS REQUIRED.
- ② (9) 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.
- (10) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (11) 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

2

NASM51038

SHEET 2



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