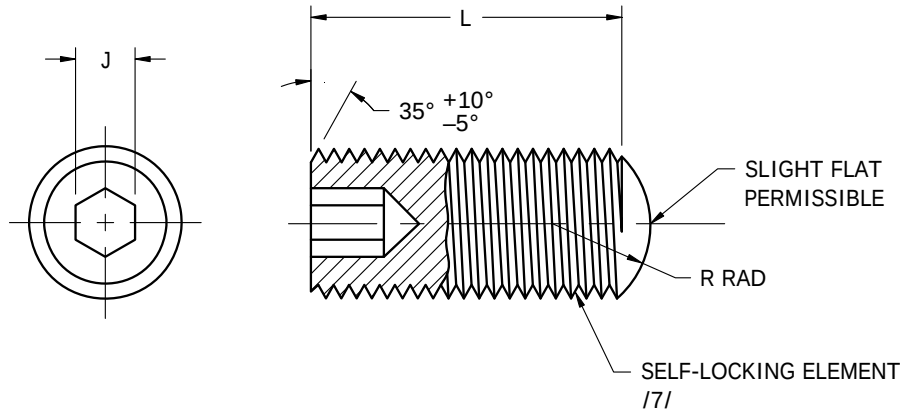


FED. SUPPLY CLASS

5305



① COMPLETELY REVISED

TABLE I – DIMENSIONS AND DASH NUMBERS

NOMINAL SIZE		.0860	.1120	.1380	.1640	.1900	.2500	.3125	.3750	.5000
THREADS PER INCH (UNC-3A)		56	40	32	32	24	20	18	16	13
J SOCKET WIDTH ACROSS FLATS	NOM	.035	.050	.062	.078	.094	.125	.156	.188	.250
R POINT RADIUS	MAX	.079	.099	.135	.154	.173	.219	.265	.312	.406
	MIN	.064	.084	.104	.123	.142	.186	.234	.281	.375
L LENGTH	TOLERANCE	DASH NUMBER								
.125	± .010	1	8	16						
.188		2	9	17	26	36				
.250			10	18	27	37	46	58		
.312				19	28	38	47	59		
.375				20	29	39	48	60	70	
.500	± .020				30	40	49	61	71	80
.625							50	62	72	81
.750							51	63	73	82
1.000							52	64	74	83

MATERIAL:

ALLOY STEEL IN ACCORDANCE WITH PROCUREMENT SPECIFICATION, HAVING A HARDNESS OF 45-53 HRC.

FINISH:

CADMIUM PLATED IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.

CODE:

THE MS PART NUMBER CONSISTS OF THE MS NUMBER, PLUS THE DASH NUMBER.

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS51981, REVISION C. PART NUMBERS REMAIN MS51981.

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 1
PROCUREMENT SPECIFICATION FF-S-200	TITLE SETSCREW, HEXAGON SOCKET, OVAL POINT, ALLOY STEEL, CADMIUM PLATED, UNC-3A	CLASSIFICATION PART STANDARD MS51981

SHEET 1 OF 2

EXAMPLES OF PART NUMBER:

MS51981-1 = PLAIN SETSCREW
MS51981-1L = SELF-LOCKING SETSCREW

NOTES:

- (1) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.
 - (2) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
 - (3) THE THREADS SHALL BE IN ACCORDANCE WITH MIL-S-7742.
 - (4) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
 - (5) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
 - (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/ SELF-LOCKING ELEMENT:
- (a) THE SELF-LOCKING ELEMENT SHALL BE A PATCH TYPE OR LONGITUDINAL STRIP IN ACCORDANCE WITH MIL-DTL-18240.
 - (b) MAXIMUM RING GAGE DIAMETER THAT LOCKING REGION OF SETSCREW MUST PASS THROUGH FREELY OR WITH FINGER PRESSURE SHALL BE THE NOMINAL SIZE PLUS .010.
 - (c) LOCATING OF EFFECTIVE LOCKING AREA, DESIGN AND USAGE LIMITATION (SEE NASM15981).

INTERCHANGEABILITY:

SCREWS COVERED BY THE DASH NUMBERS GIVEN IN MS51049 AND MS51051 ARE CANCELLED AFTER 11 MARCH 1964 AND SUPERSEDED BY THE SCREWS COVERED ON MS51981 HAVING THE SAME DASH NUMBERS. CANCELLED SCREWS MAY BE USED UNTIL EXISTING STOCKS ARE DEPLETED. USE ONLY MS51981 SCREWS FOR NEW DESIGN.

SCREWS COVERED BY THE DASH NUMBERS GIVEN IN MS51053 IN PART ARE CANCELLED/INACTIVATED AFTER 10 SEPTEMBER 1969. CANCELLED SCREWS MAY BE USED UNTIL EXISTING STOCKS ARE DEPLETED. USE ONLY THE SUPERSEDING SCREWS FOR NEW DESIGN. REPLACEMENT SHALL BE IN ACCORDANCE WITH TABLE II.

TABLE II – INTERCHANGEABILITY

CANCELLED	SUPERSEDING	CANCELLED	SUPERSEDING	CANCELLED	SUPERSEDING	CANCELLED	SUPERSEDING
MS51053	MS51981	MS51053	MS51981	MS51053	MS51981	MS51053	MS51981
DASH NUMBER		DASH NUMBER		DASH NUMBER		DASH NUMBER	
401	—	413	9	420	—	431	—
402	1	414	10	426	16	432	—
403	2	415	—	427	17	433	—
404	—	416	—	428	18	434	—
405	—	417	—	429	19	435	—
411	—	418	—	430	20	436	—
412	8	419	—				

- (a) "—" INDICATES NO REPLACEMENT

REVISION
1
NASM51981
SHEET 2

① COMPLETELY REVISED



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