

FED. SUPPLY CLASS

5305

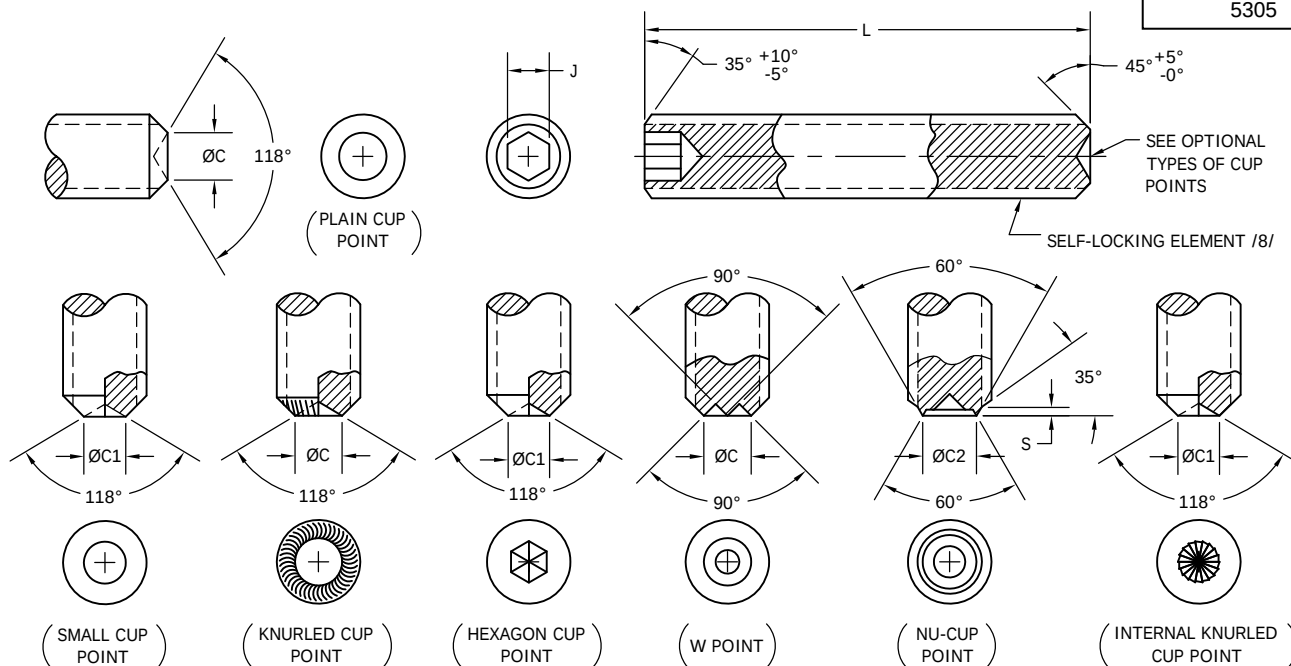


TABLE I

NOMINAL SIZE		.086	.112		.136		.164		.190	.250	.3125	.375	.500
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
ØC	POINT MAX	.047	.061		.074		.087		.102	.132	.172	.212	.291
	DIAMETER MIN	.039	.051		.064		.076		.088	.118	.156	.194	.270
ØC1	POINT MAX	.043	.056		.069		.082		.095	.125	.156	.187	.250
	DIAMETER MIN	.038	.051		.062		.074		.086	.114	.144	.174	.235
ØC2	POINT MAX	.043	.059		.074		.090		.101	.156	.190	.241	.333
	DIAMETER MIN	.038	.054		.068		.084		.095	.150	.185	.236	.328
S	POINT MAX	.010	.013		.017		.021		.024	.027	.038	.041	.054
	LENGTH MIN	.007	.008		.012		.016		.019	.022	.033	.036	.049
L LENGTH	TOL	DASH NUMBER											
		PLAIN	PLAIN	SELF- LOCKING	PLAIN	SELF- LOCKING	PLAIN	SELF- LOCKING	PLAIN	PLAIN	PLAIN	PLAIN	PLAIN
.125	±.010	1	9	101	21	111		131					
.188		2	10	102	22	112	31	132	42	55			
.250		3	11	103	23	113	32	133	43	56	68		
.312		12	104	24	114	33	134	44	57	69	80		
.375		13	105	25	115	34	135	45	58	70	81	91	
.438	±.010		14	106		116		136					
.500		15	107		117	36	137	47	60	72	83	93	
.562			108		118		138						
.625			109		119		139	48	61	73	84	94	
.750						120		140	49	62	74	85	95
.875	±.020					121		141					
1.000								142		63	75	86	96

1 COMPLETELY REVISED

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS51021, REVISION C. PART NUMBERS REMAIN MS51021.



CUSTODIAN
NATIONAL AEROSPACE STANDARDS COMMITTEE

REVISION
1

PROCUREMENT
SPECIFICATION

FF-S-200

TITLE
**SETSCREW, HEXAGON SOCKET, CUP POINT,
CORROSION-RESISTING STEEL, PASSIVATED,
UNC-3A, PLAIN AND SELF-LOCKING**

1

CLASSIFICATION
PART STANDARD

MS51021

SHEET 1 OF 3



Document Sharing Hub

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:

MS51021-1 = SETSCREW, HEXAGON SOCKET, CUP POINT, 300 SERIES CRES, .086-56 UNC-3A
THREAD, .125 LENGTH, PLAIN
MS51021-137 = SETSCREW, HEXAGON SOCKET, CUP POINT, 300 SERIES CRES, .164-32 UNC-3A
THREAD, .500 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 A 342/A 342M,
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.
- (9) REFERENCED DOCUMENTS SHALL BE THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.
- (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.

① COMPLETELY REVISED

REVISION
1
NASM51021
SHEET 2

