

FED. SUPPLY CLASS

5305

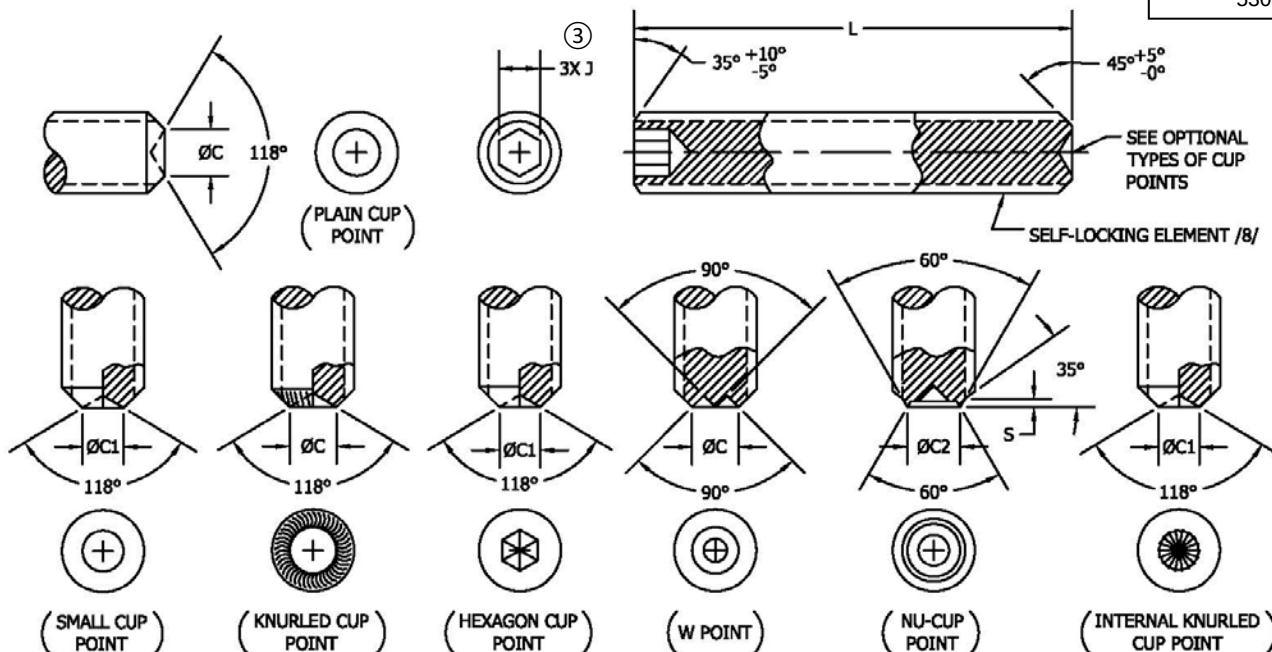


TABLE I – DIMENSIONS ③

THREAD SIZE /3/	ØC		ØC1		ØC2		J	S	
	MAX	MIN	MAX	MIN	MAX	MIN		MAX	MIN
.0860-56 UNC-3A	.047	.039	.043	.038	.043	.038	.035	.010	.007
.1120-40 UNC-3A	.061	.051	.056	.051	.059	.054	.050	.013	.008
.1380-32 UNC-3A	.074	.064	.069	.062	.074	.068	.062	.017	.012
.1640-32 UNC-3A	.087	.076	.082	.074	.090	.084	.078	.021	.016
.1900-24 UNC-3A	.102	.088	.095	.086	.101	.095	.094	.024	.019
.2500-20 UNC-3A	.132	.118	.125	.114	.156	.150	.125	.027	.022
.3125-18 UNC-3A	.172	.156	.156	.144	.190	.185	.156	.038	.033
.3750-16 UNC-3A	.212	.194	.187	.174	.241	.236	.188	.041	.036
.5000-13 UNC-3A	.291	.270	.250	.235	.333	.328	.250	.054	.049

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

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

CODE: ③

BASIC NUMBER MS51021 - 1 DASH NUMBER:
(TABLE II)

EXAMPLE OF PART NUMBER:

MS51021-1 = SETSCREW, HEXAGON SOCKET, CUP POINT, 300 SERIES CRES, .0860-56 UNC-3A ③
THREAD, .125 LENGTH, PLAIN

MS51021-137 = SETSCREW, HEXAGON SOCKET, CUP POINT, 300 SERIES CRES, .1640-32 UNC-3A ③
THREAD, .500 LENGTH, SELF-LOCKING

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



THIRD
ANGLE
PROJECTION

CUSTODIAN

NATIONAL AEROSPACE STANDARDS COMMITTEE

REVISION

3

PROCUREMENT
SPECIFICATION

FF-S-200

TITLE

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

CLASSIFICATION
PART STANDARD

MS51021
SHEET 1 OF 2



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TABLE II – LENGTHS AND DASH NUMBERS ③

NOMINAL SIZE		.0860	.1120	.1380	.1640	.1900	.2500	.3125	.3750	.5000			
LENGTH L	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				14	106		116		136				
.500	±.020		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						121		141					
1.000								142		63	75	86	96

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. ③
- (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 ± 5°.
- (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 DOES NOT ESTABLISH TORQUE REQUIREMENTS FOR LENGTHS ABOVE THE DASHED LINE. ONLY A POSITIVE INDICATION OF TORQUE IS REQUIRED.
- (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

3

NASM51021

SHEET 2



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