

USER ACTIVITIES  
ARMY-ME, MI  
NAVY-MC, OS

REVIEWER ACTIVITIES  
ARMY-AV, ER, EA  
AIRFORCE-82  
DLA-IS  
NSA-NS

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.

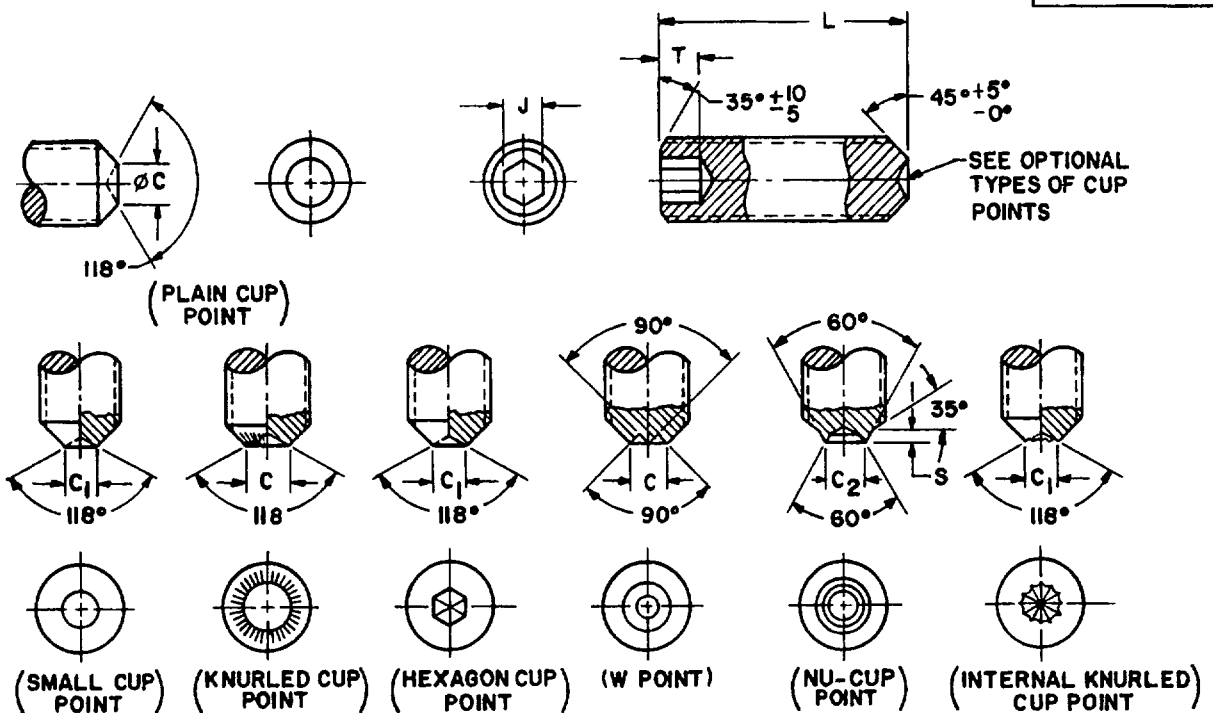


TABLE I DIMENSIONS AND PART NUMBERS

NOMINAL SIZE		112	.138	164	190	250	3125	.375	.4375	.625
THREADS PER INCH UNC - 3A		40	32	32	24	20	18	16	14	11
J - SOCKET WIDTH ACROSS FLATS	NOM	.050	.062	.078	.094	.125	.156	.188	.219	.312
Ø C - POINT DIAMETER	MAX MIN	.061 .051	.074 .064	.087 .076	.102 .088	.132 .118	.172 .156	.212 .194	.252 .232	.371 .347
Ø C <sub>1</sub> - POINT DIAMETER	MAX MIN	.056 .051	.069 .062	.082 .074	.095 .086	.125 .114	.156 .144	.187 .174	.218 .204	.312 .295
Ø C <sub>2</sub> - POINT DIAMETER	MAX MIN	.059 .054	.074 .068	.090 .084	.101 .095	.156 .150	.190 .185	.241 .236	.286 .281	.425 .420
S - POINT LENGTH	MAX MIN	.013 .008	.017 .012	.021 .016	.024 .019	.027 .022	.038 .033	.041 .036	.047 .042	.067 .062
T - KEY ENGAGEMENT	MIN	.070	.080	.090	.100	.125	.156	.188	.219	.312
L - LENGTH	TOLERANCE	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO
.125 .188 .250 .312 .375	±.010	01 02		05 06 07			14			
.438 .500 .625		03		08	09	11	15	16		
.750 1.000	±.020		04		10	13		17 18	19	20

P.A.	AR	INTERNATIONAL INTEREST	TITLE	MILITARY STANDARD
Other Cust	SH 99		SETSCREW, HEXAGON SOCKET, CUP POINT, ALLOY STEEL, UNC-3A	MS51476
PROCUREMENT SPECIFICATION FF-S-200		SUPERSEDES		PAGE OF 1 2

FED SUP CLASS  
5305

## REQUIREMENTS

1. MATERIAL. ALLOY STEEL IN ACCORDANCE WITH PROCUREMENT SPECIFICATION
2. HARDNESS. 45-53HRC
3. FINISH. ZINC COATING IN ACCORDANCE WITH ASTM B633-78, Fe/Zn 5 (5  $\mu$ m), TYPE II.
4. THREADS. THE THREADS SHALL BE IN ACCORDANCE WITH FED-STD-H28/2. ACCEPTABILITY OF SCREW THREADS SHALL BE IN ACCORDANCE WITH FED-STD-H28/20, SYSTEM 21.
5. PART NUMBER. THE BASIC MS PART NUMBER IS FOLLOWED BY A DASH NUMBER TAKEN FROM TABLE I  
EXAMPLE: MS51476-01 - SETSCREW, HEXAGON SOCKET, CUP POINT, ALLOY STEEL, .112-40UNC-3A, LENGTH .125, ZINC COATED

## NOTES:

1. ALL DIMENSIONS ARE IN INCHES.
2. TOLERANCES OF ANGLES IS  $\pm 5^\circ$  UNLESS OTHERWISE SPECIFIED.
3. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BIDS OR REQUEST FOR PROPOSAL, EXCEPT THAT REFERENCED ADOPTED INDUSTRY DOCUMENTS SHALL GIVE THE DATE OF THE ISSUE ADOPTED
4. FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN

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