



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	.061	.074	.087	.102	132	.172	.212	.252	.371
	MIN	.051	.064	.076	.088	.118	.156	.194	.232	.347
Ø C ₁ - POINT DIAMETER	MAX	.056	.069	.082	.095	125	156	.187	.218	.312
	MIN	.051	.062	.074	.086	114	144	.174	.204	.295
Ø C ₂ - POINT DIAMETER	MAX	.059	.074	.090	.101	156	190	.241	.286	.425
	MIN	.054	.068	.084	.095	.150	.185	.236	.281	.420
S - POINT LENGTH	MAX	.013	.017	.021	.024	.027	.038	.041	.047	.067
	MIN	.008	.012	.016	.019	.022	.033	.036	.042	.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	±.010	01								
.188		02		05			14			
.250				06						
.312				07		09	11	15	16	
.375										
.438	±.020	03		08		12		17	19	
.500								18		
.625			04		10	13				
.750										
1.000										20

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

REVIEWER ACTIVITIES
ARMY - AV, ER, EA
AIR FORCE - 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.

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

APPROVED 1 AUG 84 REVISED

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 µm), 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

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.

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