

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DOOISS SPECIFIED IN THE SOLICITATION: MIL-S-21472

THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE.

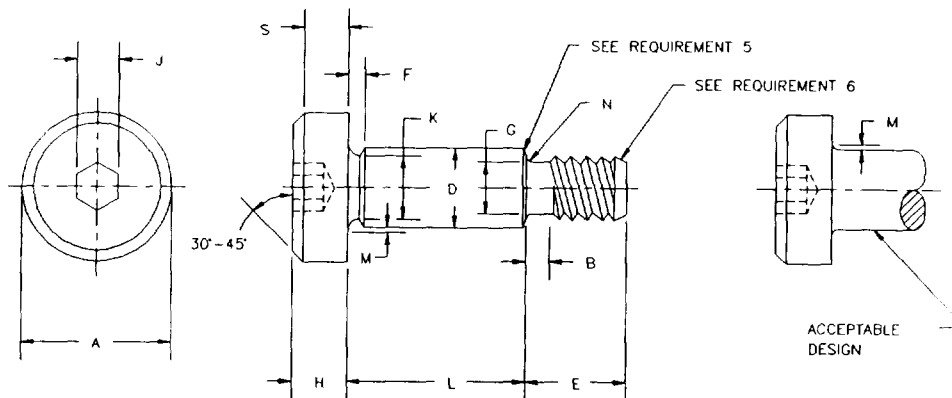


TABLE I.

NOMINAL SIZE		.250	.3125	.375	.500	.625	.750	1.000	1.250
THREADS (UNC-3A)		1900-24	2500-20	3125-18	3750-16	5000-13	6250-11	7500-10	8750-9
D SHOULDER DIAMETER	MAX	.2480	.3105	.3730	.4980	.6230	.7480	.9980	1.2480
	MIN	.2460	.3085	.3710	.4960	.6210	.7460	.9960	1.2460
A HEAD DIAMETER	MAX	.375	.438	.562	.750	.875	1.000	1.312	1.750
	MIN	.357	.419	.543	.729	.853	.977	1.267	1.723
H HEAD HEIGHT	MAX	.188	.219	.250	.312	.375	.500	.625	.750
	MIN	.177	.209	.240	.302	.365	.490	.610	.735
S HEAD SIZE HEIGHT	MIN	.157	.183	.209	.262	.315	.421	.527	.633
E THREAD LENGTH	MAX	.375	.438	.500	.625	.750	.875	1.000	1.125
	MIN	.355	.418	.480	.595	.720	.845	.970	1.095
G THREAD NECK DIAMETER	MAX	.142	.193	.249	.304	.414	.521	.638	.750
	MIN	.133	.182	.237	.291	.397	.502	.616	.726
B THREAD NECK WIDTH	MAX	.083	.100	.111	.125	.154	.182	.200	.222
J SOCKET WIDTH ACROSS FLATS	NOM	.125	.156	.188	.250	.312	.375	.500	.625
K SHOULDER NECK DIAMETER	MIN	.227	.289	.352	.477	.602	.727	.977	1.227
F SHOULDER NECK WIDTH	MAX	.093	.093	.093	.093	.093	.093	.125	.125
N THREAD NECK FILLET	MAX	.023	.028	.031	.035	.042	.051	.055	.062
	MIN	.017	.022	.025	.029	.036	.045	.049	.056
M HEAD FILLET	MAX	.014	.017	.020	.026	.032	.039	.050	.060
	MIN	.009	.012	.015	.020	.024	.030	.040	.050
2/ SHEAR STRENGTH	SINGLE MIN	1,170	2,180	3,700	5,580	10,400	16,600	25,000	34,800
	DOUBLE MIN	7,980	12,550	18,150	32,450	50,900	73,400	130,900	204,850
1/ TENSILE STRENGTH	LBS-MIN	1,950	3,640	6,170	9,310	17,300	27,700	41,700	58,000

1/ Ultimate tensile strength of 140,000 psi min, based on the minimum thread neck area.

2/ Single shear strength of 84,000 psi min in thread neck area, based on the minimum thread neck area. Double shear strength of 168,000 psi min in shoulder area, based on the minimum shoulder.

(D) ENTIRE STANDARD REVISED

INCH-POUND

PREPARING ACTIVITY: DLA-IS

CUSTODIANS: ARMY- AR NAVY- SH

AIR FORCE- 99

REVIEW: GSA,B2
USER:

PROJECT NUMBER: 5305-1954

DISTRIBUTION STATEMENT

MILITARY SPECIFICATION SHEET

TITLE
SCREW, SHOULDER - SOCKET HEAD, HEXAGON,
ALLOY STEEL, CADMIUM PLATED, UNC-3A

SPECIFICATION SHEET NUMBER

MS51975

25 APR 84
REV D

SUPERSEDING

MS51975C 30 OCT 84 (SEE NOTE 6)

AMSC- N/A

FSC 5305

A. Approved for public release; distribution is unlimited.

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TABLE II

NOMINAL SIZE		250	.3125	.375	.500	.625	.750	1.000	1.250
THREADS (UNC-3A)		1900-24	2500-20	.3125-18	.3750-16	5000-13	6250-11	7500-10	.8750-9
L SHOULDER LENGTH	TOL	DASH NUMBER	DASH NUMBER	DASH NUMBER	DASH NUMBER	DASH NUMBER	DASH NUMBER	DASH NUMBER	DASH NUMBER
.375	± .005	1							
.500		2	8	16		38*			
.625		3	9	17		39*			
.750		4	10	18	28	40*			
.875						41*			
1.000		5	11	19	29	42*	51*		
1.250		6	12	20	30	43	52*		
1.500		7	13	21	31	44	53	60*	
1.750			14	22	32	45	54	61*	71*
2.000			15	23	33	46	55	62*	72*
2.250				24	34	47	56	63*	73*
2.500				25	35	48	57	64*	74*
2.750				26	36	49	58	65*	75*
3.000				27	37	50	59	66*	76*
3.500							81	68*	77*
3.750							80		
4.000							70*	78*	

* Indicates manufacturer's non-stock production item.

PREPARING ACTIVITY: DLA-IS CUSTODIANS: ARMY- AR NAVY- SH AIR FORCE- 99 REVIEW: GSA,82 USER: PROJECT NUMBER: 5305-1954	MILITARY SPECIFICATION SHEET TITLE SCREW, SHOULDER - SOCKET HEAD, HEXAGON, ALLOY STEEL, CADMIUM PLATED, UNC-3A	SPECIFICATION SHEET NUMBER MS51975 25 APR 94 REV D
		SUPERSEDING MS51975C 30 OCT 84 (SEE NOTE 6)
		AMSC- N/A FSC 5305
DISTRIBUTION STATEMENT A. Approved for public release, distribution is unlimited		Page <u>2</u> of <u>3</u>

