

FULL HEAD

UNDERCUT HEAD

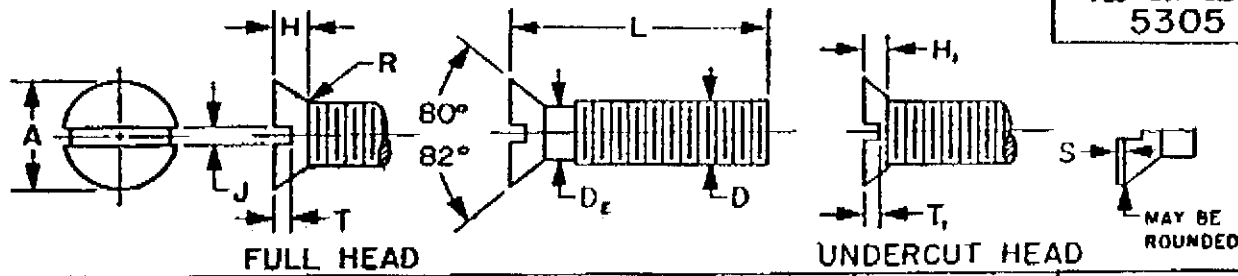
NOMINAL SIZE D		1 (.073)	2 (.086)	4 (.112)	6 (.138)					
THREADS PER INCH		6UNC	56NC	40NC	32NC					
BODY DIAMETER D _E		MAX .0730 MIN .0603	MAX .0860 MIN .0717	MAX .1120 MIN .0925	MAX .1380 MIN .1141					
HEAD DIAMETER A		MAX SHARP .146 MIN SHARP .130 ABS. MIN .126	MAX .172 MIN .156 ABS. MIN .150	MAX .225 MIN .207 ABS. MIN .200	MAX .279 MIN .257 ABS. MIN .249					
SLOT WIDTH J		MAX .026 MIN .019	MAX .031 MIN .023	MAX .039 MIN .031	MAX .048 MIN .039					
FLAT S		MAX .003	MAX .003	MAX .004	MAX .005					
RADIUS R		MAX .031	MAX .036	MAX .050	MAX .063					
FULL HEAD	HEAD HEIGHT H	MAX .043 MIN .033	MAX .051 MIN .040	MAX .067 MIN .055	MAX .083 MIN .069					
	SLOT DEPTH T	MAX .019 MIN .012	MAX .023 MIN .015	MAX .030 MIN .020	MAX .038 MIN .024					
UNDERCUT HEAD	HEAD HEIGHT H ₁	MAX .032 MIN .022	MAX .037 MIN .026	MAX .048 MIN .036	MAX .060 MIN .046					
	SLOT DEPTH T ₁	MAX .016 MIN .012	MAX .019 MIN .015	MAX .025 MIN .020	MAX .032 MIN .024					
THREADS SHALL EXTEND TO WITHIN 2 THREADS OF THE BEARING SURFACE OF THE HEAD, OR CLOSER IF PRACTICABLE. MINIMUM COMPLETE THREAD LENGTH OF 1-3/4.	LENGTH L	TOLERANCE	DASH No.	FIN	DASH No.	FIN	DASH No.	FIN	DASH No.	FIN
	1/8	+0 -1/32	1		8		18		31	
	3/16									
	1/4									
	5/16									
	3/8									
	7/16									
	1/2									
	5/8	+0 -1/16	2		16		26		39	
	3/4									
	7/8									
	1									
1-1/4										
1-1/2	+0 -3/32	3		17		27		40		
1-3/4										
2										
2-1/4						28		41		
2-1/2						29		42		
2-3/4						30		43		
3								44		
								45		

MATERIAL: ALUMINUM ALLOY (AL-24S), SPECIFICATION QQ-A-268.
FINISH: ANODIZE.
THREADS: THE THREADS SHALL BE IN ACCORDANCE WITH SCREW-THREAD STANDARDS FOR FEDERAL SERVICES HANDBOOK H-28.
NOTES: (1) REFERENCED DOCUMENTS OF ISSUE IN EFFECT ON DATE OF INVITATION FOR BIDS SHALL APPLY.
 (2) IN CASE OF CONFLICT WITH ANY REFERENCED DOCUMENT, THIS STANDARD WILL GOVERN.
 (3) THE MS PART NUMBER CONSISTS OF THE MS SHEET NUMBER, PLUS THE DASH NUMBER. EXAMPLE: MS 35251-1.
 (4) SIZES ABOVE DOTTED LINE HAVE UNDERCUT HEAD.
 (5) ALL DIMENSIONS IN INCHES.

CUSTOMERS A - ORD N - SHIPS AF - USAF	OTHER INT. A-CEN/MS1GT N-AMOR/SYMC AF-	MILITARY STANDARD		MS 35251
		SCREW, MACHINE, FLAT COUNTERSUNK HEAD, SLOTTED, ALUMINUM ALLOY, ANODIZED, NC-2A AND UNC-2A		
PROCUREMENT SPECIFICATION FF-3-92		SUPERSEDES:		SHEET 1 OF 4

APPROVED FEB 9 1954 REVISED

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		3/8	7/16	1/2	9/16					
NOMINAL SIZE D		3/8	7/16	1/2	9/16					
THREADS PER INCH		16UNC	14UNC	13UNC	12UNC					
BODY DIAMETER D _c		MAX .3750 MIN .3287	.4375 .3850	.5000 .4435	.5625 .5016					
HEAD DIAMETER A		MAX SHARP .762 MIN SHARP .722 ABS MIN .700	.812 .771 .743	.875 .831 .802	1.000 .950 .919					
SLOT WIDTH J		MAX .094 MIN .081	.094 .081	.106 .091	.118 .102					
FLAT S MAX		.013	.016	.018	.020					
RADIUS R MAX		.125	.143	.154	.167					
FULL HEAD	HEAD HEIGHT H	MAX .230 MIN .200	.223 .190	.223 .186	.260 .220					
	SLOT DEPTH T	MAX .106 MIN .070	.103 .066	.103 .065	.120 .077					
UNDERCUT HEAD	HEAD HEIGHT H ₁	MAX .162 MIN .132	.156 .126	.160 .123	.185 .145					
	SLOT DEPTH T ₁	MAX .088 MIN .070	.085 .066	.085 .065	.100 .077					
THREADS SHALL EXTEND TO WITHIN 2 THREADS OF THE BEARING SURFACE OF THE HEAD, OR CLOSER IF PRACTICABLE. MINIMUM COMPLETE THREAD LENGTH D _c 1-3/4	LENGTH L	TOLERANCE	DASH No.	FIN	DASH No.	FIN	DASH No.	FIN	DASH No.	FIN
	1/8	+0 -1/32	114	115	127	139	140	150	151	152
	3/16									
	1/4									
	5/16									
	3/8									
	7/16	+0 -1/16	120	121	132	143	144	153	154	155
	1/2									
	5/8									
	3/4									
	7/8	+0 -3/32	124	125	136	147	148	157	158	159
	1									
	1-1/4									
	1-1/2									
	1-3/4									
2										
2-1/4										
2-1/2										
2-3/4										
3										

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 (3) SIZES ABOVE DOTTED LINE HAVE UNDERCUT HEAD.
 (4) ALL DIMENSIONS IN INCHES.
 (5)

CUSTOMERS A - ORD N - SHIPS AF - USAF	OTHER INT. A - COMSIGT N - AMBOSYMC M -	MILITARY STANDARD		MS35251
SCREW, MACHINE, FLAT COUNTERSUNK HEAD, SLOTTED, ALUMINUM ALLOY, ANODIZED, NC-2A AND UNC-2A			SHEET 3 OF 1	
PROGRAM SPECIFICATION FF-S-92		SUPERSEDES:		

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