

FED. SUPPLY CLASS

5305

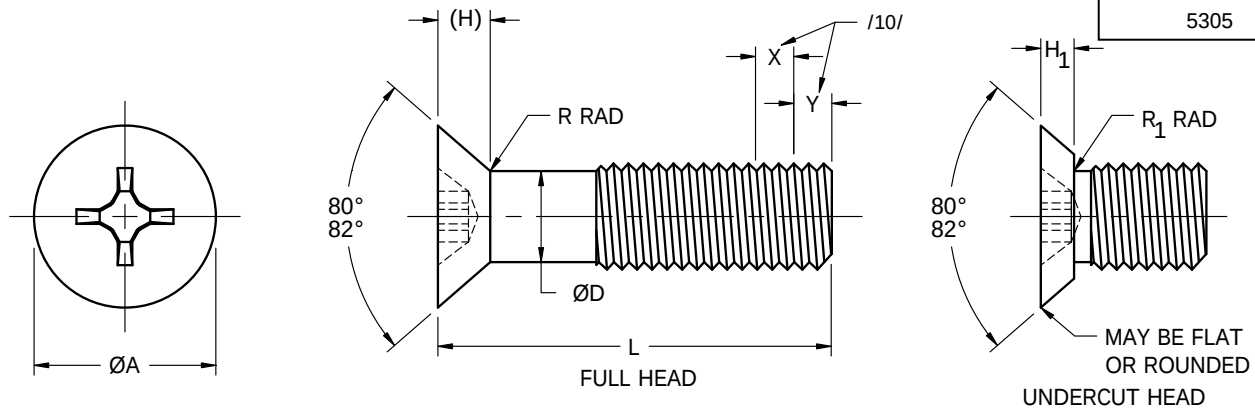


FIGURE 1 – SCREW

TABLE I – DASH NUMBERS AND DIMENSIONS

NOMINAL SIZE	(#0) .060	(#1) .073	(#2) .086	(#4) .112	(#6) .138	(#8) .164	(#10) .190	(1/4) .250	(5/16) .3125	(3/8) .375	(7/16) .4375	(1/2) .500
THREADS PER INCH UNF-2A	80	72	64	48	40	36	32	28	24	24	20	20
ØD BODY	MAX .0600 MIN .0496	.0730 .0615	.0860 .0733	.1120 .0954	.1380 .1184	.1640 .1424	.1900 .1658	.2500 .2225	.3125 .2806	.3750 .3430	.4375 .3995	.5000 .4619
ØA HEAD	MAX SHARP .119 MIN SHARP .105 ABS MIN .099	.146 .130 .123	.172 .156 .147	.225 .207 .195	.279 .257 .244	.332 .308 .292	.385 .359 .340	.507 .477 .452	.635 .600 .568	.762 .722 .685	.812 .767 .723	.875 .831 .775
(H) HEAD HEIGHT	.035	.043	.051	.067	.083	.100	.116	.153	.191	.230	.223	.223
H1 HEAD HEIGHT UNDERCUT	MAX .025 MIN .018	.031 .023	.036 .028	.047 .038	.059 .048	.070 .058	.081 .068	.107 .092	.134 .116	.161 .140	.156 .133	.156 .130
R RADIUS	MAX .024	.029	.034	.045	.055	.066	.076	.100	.125	.150	.175	.200
R1 RADIUS UNDERCUT	MAX .009	.011	.013	.017	.021	.025	.029	.038	.047	.056	.066	.075
TENSILE STRENGTH LBF	MIN 105	165	235	395	605	880	1,200	2,180	3,480	5,260	7,120	9,590
L LENGTH	TOLERANCE	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.
.125		201	206 /11/	213	222	233	248	—	—	—	—	—
.188		202	207 /11/	214	223	234	249	267	—	—	—	—
.250		203	208 /11/	215	224	235	250	268	285	—	—	—
.312		204	209 /11/	216	225	236	251	269	286	—	—	—
.375		205	210 /11/	217	226	237	252	270	287	302	—	—
.438	+ .000	—	211 /11/	218	227	238	253	271	288	303	—	—
.500	— .031	—	212 /11/	219	228	239	254	272	289	304	317	—
.625		—	—	220	229	240	255	273	290	305	318	330 /11/
.750		—	—	221	230	241	256	274	291	306	319	331 /11/
.875		—	—	—	231	242	257	275	292	307	320	332 /11/
1.000		—	—	—	232	243	258	276	293	308	321	333 /11/
1.250		—	—	—	—	244	259	277	294	309	322	334 /11/
1.500	+ .000	—	—	—	—	245	260	278	295	310	323	335 /11/
1.750	— .062	—	—	—	—	246	261	279	296	311	324	336 /11/
2.000		—	—	—	—	247	262	280	297	312	325	337 /11/
2.250		—	—	—	—	—	263	281	298	313	326	338 /11/
2.500	+ .000	—	—	—	—	—	264	282	299	314	327	339 /11/
2.750	— .094	—	—	—	—	—	265	283	300	315	328	340 /11/
3.000		—	—	—	—	—	266	284	301	316	329	341 /11/

① COMPLETELY REVISED

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS35191, REVISION G. PART NUMBERS REMAIN MS35191.

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 1
PROCUREMENT SPECIFICATION FF-S-92	TITLE SCREW, MACHINE, 82° FLAT COUNTERSUNK HEAD, CROSS-RECESSED, CARBON STEEL, CADIUM PLATED, UNF-2A	CLASSIFICATION PART STANDARD MS35191

MATERIAL:

CARBON STEEL PER FED-STD-NO-66 AIR4127 HAVING MINIMUM ULTIMATE TENSILE STRENGTH OF 60 KSI.

FINISH:

CADMIUM PLATED PER AMS-QQ-P-416 TYPE II, CLASS 3 OR AMS-C-81562.

CODE:

THE MS PART NUMBER CONSISTS OF THE MS NUMBER, PLUS THE DASH NUMBER.

EXAMPLES OF PART NUMBER:

MS35191-209 = PLAIN SCREW
MS35191-209L = SELF-LOCKING SCREW

NOTES:

- (1) THE THREADS SHALL BE IN ACCORDANCE WITH FED-STD-H28.
- (2) SCREWS 2.00 INCHES LONG AND SHORTER SHALL HAVE COMPLETE THREADS EXTENDING TO WITHIN TWO THREADS OF THE HEAD, OR CLOSER, IF PRACTICABLE. LONGER SCREWS SHALL HAVE A MINIMUM THREAD LENGTH OF 1.50 INCHES.
- (3) SCREWS ABOVE DOTTED LINES SHALL HAVE UNDERCUT HEADS.
- (4) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (5) THE RECESS SHALL BE IN ACCORDANCE WITH NASM9006.
- (6) 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.
- (7) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (8) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- (9) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.
- /10/ SELF-LOCKING ELEMENT:
 - a. THE SELF-LOCKING ELEMENT SHALL BE A PATCH TYPE OR LONGITUDINAL STRIP IN ACCORDANCE WITH MIL-DTL-18240.
 - b. MAXIMUM RING GAGE DIAMETER THAT LOCKING REGION OF SCREW MUST PASS THRU FREELY OR WITH FINGER PRESSURE SHALL BE THE NOMINAL SIZE PLUS .010.
 - c. FOR "X" AND "Y" DIMENSIONS AND DESIGN AND USAGE LIMITATIONS, SEE NASM15981.
- /11/ INACTIVE FOR NEW DESIGN AFTER 2 FEBRUARY 1976.

REVISION
1
NASM35191
SHEET 2

① COMPLETELY REVISED