

FED. SUPPLY CLASS

5305

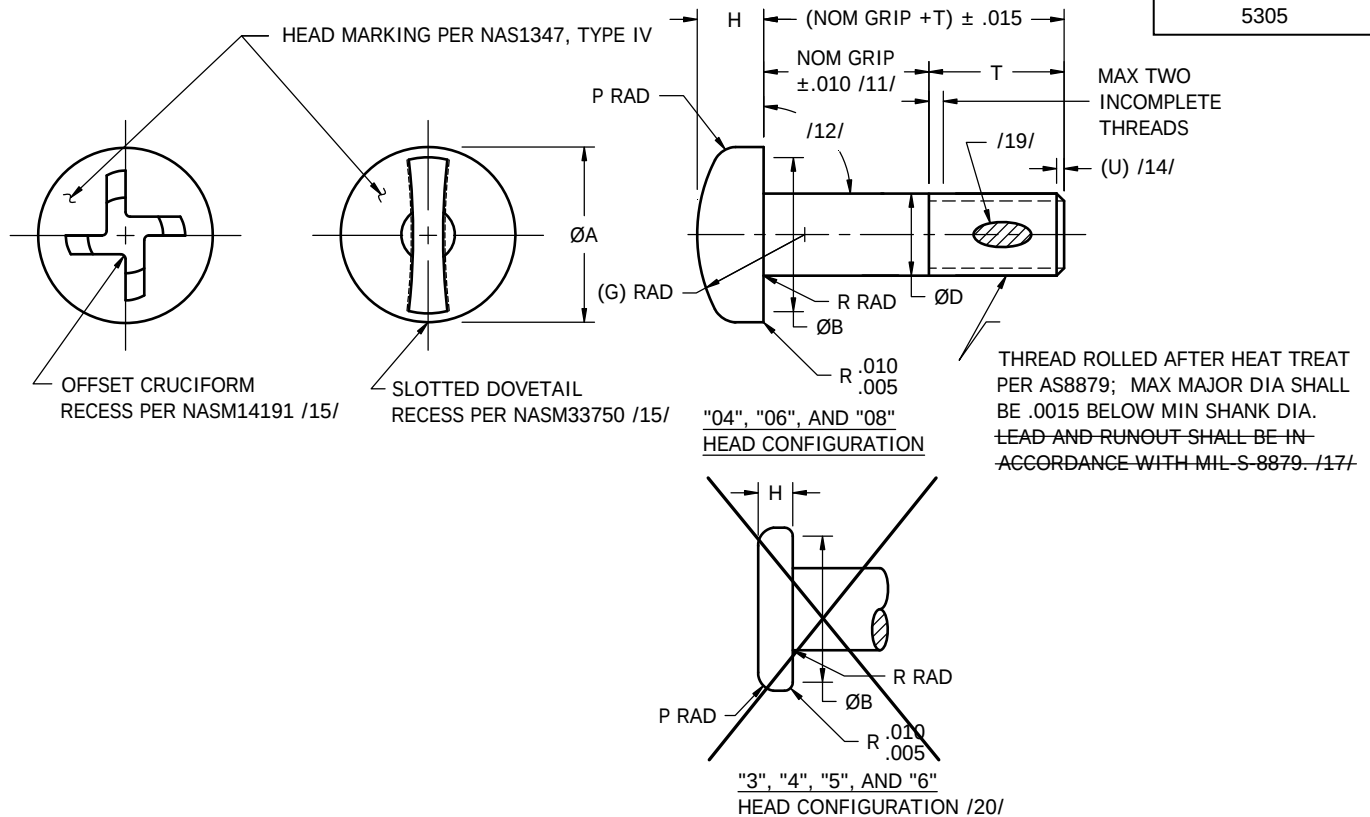


FIGURE 1 – BOLT

TABLE I – DIMENSIONS

FIRST DASH NO.	THREAD	ØA	ØB BRG MIN	ØD	(G) RAD	H	P RAD	R RAD	T	(U) /14/	Z FIM /13/
04	.1120-40 UNJC-3A	.219 .205	.195	.1115 .1095	.300	.080 .070	.028 .020	.015 .010	.232	.050	.0040
06	.1380-32 UNJC-3A	.270 .256	.242	.1375 .1355	.370	.097 .087	.038 .028	.015 .010	.276	.050	.0040
08	.1640-32 UNJC-3A	.327 .308	.289	.1635 .1610	.440	.115 .105	.050 .040	.020 .010	.338	.050	.0040
3	.1900-32 UNJF-3A	.374 .360	.331	.1895 .1870	—	.125 .115	.035 .025	.020 .010	.338	.050	.0040
4	.2500-28 UNJF-3A	.492 .479	.424	.2495 .2470	—	.150 .140	.040 .025	.020 .010	.425	.060	.0030
5	.3125-24 UNJF-3A	.612 .592	.518	.3120 .3095	—	.188 .176	.050 .035	.020 .010	.469	.060	.0030
6	.3750-24 UNJF-3A	.740 .722	.611	.3745 .3720	—	.220 .206	.050 .035	.025 .015	.578	.080	.0025

13 COMPLETELY REVISED

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 13
PROCUREMENT SPECIFICATION NOTED	TITLE BOLT, PAN HEAD, SELF-LOCKING OPTIONAL	CLASSIFICATION PART STANDARD
		NAS1218 SHEET 1 OF 6

MATERIAL:

ALLOY STEEL: 4140 (UNS G41400) PER ~~MIL-S-5626~~ AMS6382 OR AMS6349, 4340 (UNS G43400) PER AMS6415, E4340 (UNS G43406) PER ~~MIL-S-5000~~ AMS 6415 OR AMS 6484, OR 8740 (UNS G87400) PER ~~MIL-S-6049~~ AMS6322, AMS6325, OR AMS6327.
CRES: A286 (UNS S66286) CONFORMING TO THE CHEMISTRY OF AMS5731, AMS5732, AMS5737 OR AMS5853.
~~302 CRES, CONDITION B OR 305 CRES PER QQ-S-763.~~
TITANIUM ALLOY: 6Al-4V (UNS R56400) PER AMS4928 OR AMS4967.
LOCKING ELEMENT: NYLON OR EQUIVALENT.

HEAT TREATMENT:

DEVELOP BASIC MATERIAL PROPERTIES AS FOLLOWS, WITH CONTROLS PER AMS2759 FOR ALLOY STEEL AND CRES AND AMS-H-81200 OR AMS2801 FOR TITANIUM.
ALLOY STEEL: 160-180 KSI FtU.
CRES: 160-190 KSI FtU. PRECIPITATION HARDENING PER AMS5853. /6/
~~302 OR 305 CRES 125 KSI MINIMUM TENSILE STRENGTH.~~
TITANIUM: 160-180 KSI FtU.

FINISH:

ALLOY STEEL: CADMIUM PLATE PER AMS-QQ-P-416, ~~TYPE I, CLASS 3; TYPE II, CLASS 2; TYPE II, CLASS 3; OR TYPE II, CLASS 2, WITH BLACK FINISH PER UNICHROME DIP BULLETIN 65-B-Cd (SEE "CODE")~~; /3/
CRES: PASSIVATE PER AMS2700, METHOD 1, CLASS 4; OR CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2 (SEE CODE).
~~302 OR 305 CRES: PASSIVATE PER QQ-P-35.~~
TITANIUM: NO FINISH.

CODE:

SECOND DIGIT OF FIRST DASH NUMBER FOR "08" SIZE AND SMALLER INDICATES THREAD NUMBER SIZE. FOR SIZES ABOVE "08", FIRST DASH NUMBER INDICATES NOMINAL DIAMETER IN ~~16THS~~. SECOND DASH NUMBER INDICATES GRIP LENGTH IN .0625 INCH INCREMENTS. ~~(CONVERTED TO THREE DECIMAL PLACES PER ANSI Y14.5), INTERMEDIATE AND LONGER GRIP LENGTHS THAN THOSE LISTED ON PAGE 4 MAY BE ORDERED BY USE OF SIGNIFICANT DASH NUMBERS.~~

MATERIAL:

NO CODE LETTER FOLLOWING FIRST DASH NUMBER INDICATES ALLOY STEEL.
~~CODE LETTER "CR" FOLLOWING FIRST DASH NUMBER INDICATES 302 OR 305 CRES.~~
CODE LETTER "E" FOLLOWING FIRST DASH NUMBER INDICATES CRES.
CODE LETTER "V" FOLLOWING FIRST DASH NUMBER INDICATES TITANIUM.
CRES: NO CODE LETTER FOLLOWING SECOND DASH NUMBER INDICATES PASSIVATE PER AMS2700, METHOD 1, CLASS 4. CODE LETTER "P" FOLLOWING SECOND DASH NUMBER INDICATES TYPE II, CLASS 2 CADMIUM PLATE.

RECESS:

NO CODE LETTER FOLLOWING BASIC NUMBER INDICATES DOVETAIL SLOT RECESS PER NASM33750.
CODE LETTER "R" FOLLOWING BASIC NUMBER INDICATES OFFSET CRUCIFORM RECESS PER NASM14191.

SELF-LOCKING:

CODE LETTER "L" FOLLOWING SECOND DASH NUMBER DESIGNATES A SELF-LOCKING BOLT.

13 COMPLETELY REVISED

REVISION

13

NAS1218
SHEET 2



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