

FED. SUPPLY CLASS

5306

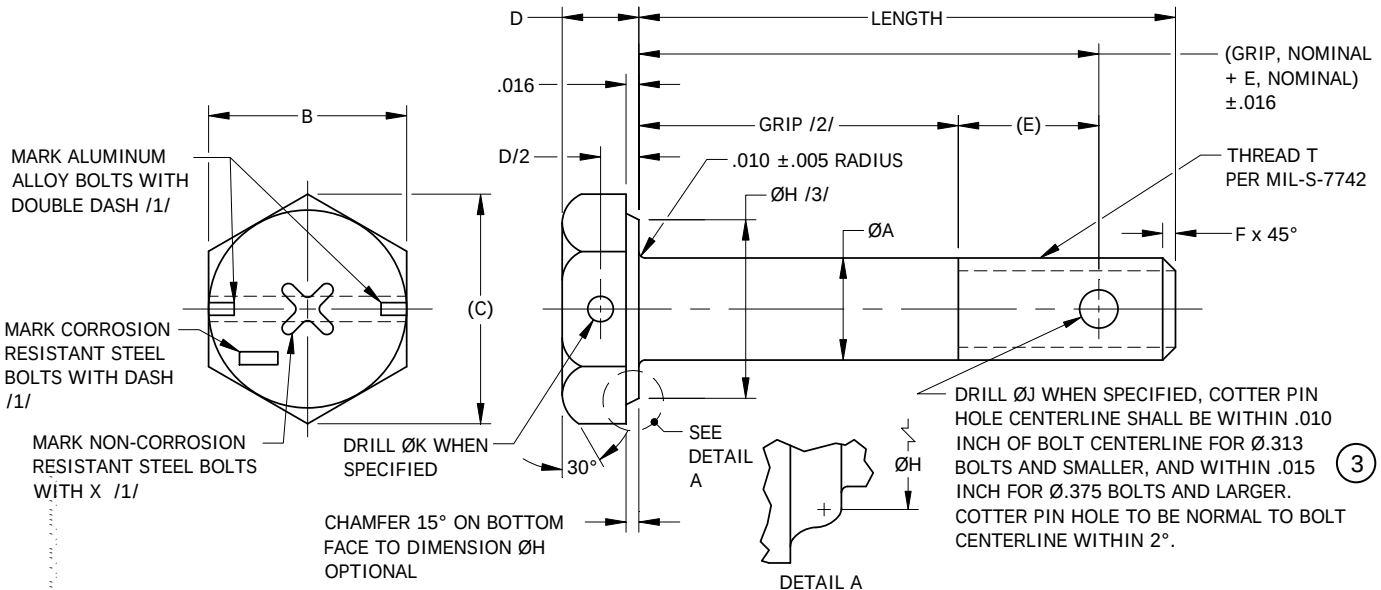


FIGURE 1 – BOLT, MACHINE, AIRCRAFT

TABLE I – DIMENSIONS

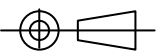
BASIC AN PART NO.	T THREAD	ØA		B		(C)	D		(E)	F		ØH MIN /3/	ØJ DRILL +.010 -.000	ØK DRILL +.010 -.000
		MAX	MIN	MAX	MIN		MAX	MIN		MAX	MIN			
AN3	.1900-32 UNF-3A	.189	.186	.377	.365	.430	.141	.109	.266	.047	.015	.335	.070	.046
AN4	.2500-28 UNF-3A	.249	.246	.440	.428	.510	.172	.140	.313	.047	.015	.398	.076	.046
AN5	.3125-24 UNF-3A	.312	.309	.502	.490	.580	.204	.172	.359	.063	.031	.460	.076	.070
AN6	.3750-24 UNF-3A	.374	.371	.565	.553	.650	.235	.203	.438	.063	.031	.523	.106	.070
AN7	.4375-20 UNF-3A	.437	.433	.627	.615	.720	.266	.234	.484	.063	.031	.585	.106	.070
AN8	.5000-20 UNF-3A	.499	.495	.752	.740	.870	.297	.265	.609	.063	.031	.710	.106	.070
AN9	.5625-18 UNF-3A	.562	.558	.877	.865	1.010	.328	.296	.656	.078	.046	.835	.141	.070
AN10	.6250-18 UNF-3A	.624	.620	.940	.928	1.090	.360	.328	.734	.078	.046	.898	.141	.070
AN12	.7500-16 UNF-3A	.749	.744	1.066	1.053	1.230	.422	.390	.875	.078	.046	1.023	.141	.070
AN14	.8750-14 UNF-3A	.874	.869	1.253	1.240	1.440	.485	.453	.984	.094	.062	1.210	.141	.070
AN16	1.0000-14 NF-3A	.999	.993	1.441	1.428	1.660	.547	.515	1.094	.094	.062	1.398	.141	.070
AN17	1.0000-12 UNF-3A	.999	.993	1.441	1.428	1.660	.547	.515	1.094	.094	.062	1.398	.141	.070
AN18	1.1250-12 UNF-3A	1.124	1.118	1.628	1.615	1.880	.610	.578	1.188	.110	.078	1.585	.141	.070
AN20	1.2500-12 UNF-3A	1.249	1.243	1.815	1.802	2.090	.672	.640	1.375	.110	.078	1.772	.141	.070

MATERIAL: NON-CORROSION RESISTANT STEEL, CORROSION-RESISTANT STEEL OR ALUMINUM ALLOY, SEE PROCUREMENT SPECIFICATION.

FINISH: SEE PROCUREMENT SPECIFICATION.

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES AN3 THRU AN20, REVISION 12. PART NUMBERS REMAIN AN3 THRU AN2.

THIRD
ANGLE
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CUSTODIAN
NATIONAL AEROSPACE STANDARDS COMMITTEE

REVISION

3

PROCUREMENT
SPECIFICATION

TITLE

BOLT, MACHINE, AIRCRAFT

CLASSIFICATION
PART STANDARD

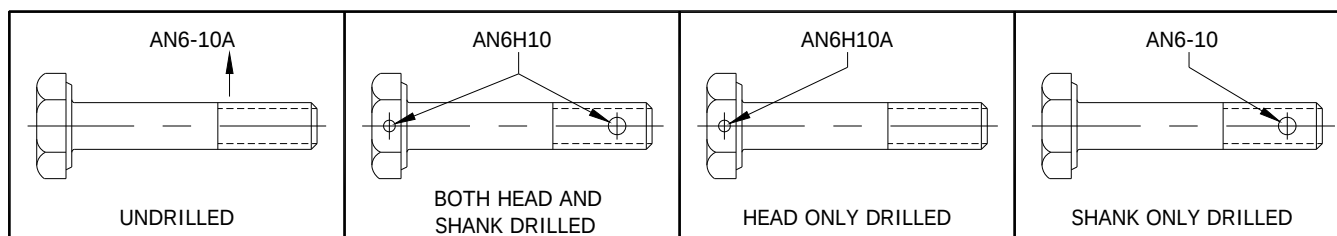
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SHEET 1 OF 5

CODE: ADD "C" BEFORE DASH NUMBER FOR CORROSION-RESISTANT STEEL BOLT.
ADD "DD" BEFORE DASH NUMBER FOR ALUMINUM ALLOY BOLT.
ADD "A" AFTER DASH NUMBER FOR UNDRILLED BOLT. SEE ILLUSTRATION.
ADD "H" BEFORE DASH NUMBER FOR BOLT WITH DRILLED HEAD AND SHANK. SEE ILLUSTRATION.
ADD "H" BEFORE DASH NUMBER AND "A" AFTER DASH NUMBER FOR BOLT WITH DRILLED HEAD ONLY. SEE ILLUSTRATION.

EXAMPLE OF PART NUMBER:

- ③
- AN6-10 = Ø.3750 NON-CORROSION RESISTANT STEEL BOLT 1.078 LONG, .438 GRIP WITH DRILLED SHANK ONLY. SEE FIGURE 2.
 - AN6C10 = Ø.3750 CORROSION-RESISTANT STEEL BOLT 1.078 LONG, .438 GRIP WITH DRILLED SHANK ONLY. SEE FIGURE 2.
 - AN6DD10 = Ø.3750 ALUMINUM ALLOY BOLT 1.078 LONG, .438 GRIP WITH DRILLED SHANK ONLY. SEE FIGURE 2.
 - AN6DD10A = Ø.3750 ALUMINUM ALLOY BOLT 1.078 LONG, .438 GRIP, UNDRILLED SHANK AND HEAD. SEE FIGURE 2.
 - AN6DDH10 = Ø.3750 ALUMINUM ALLOY BOLT 1.078 LONG, .438 GRIP WITH DRILLED HEAD AND SHANK. SEE FIGURE 2.
 - AN6DDH10A = Ø.3750 ALUMINUM ALLOY BOLT 1.078 LONG, .438 GRIP WITH DRILLED HEAD ONLY. SEE FIGURE 2.



③ FIGURE 2 – ILLUSTRATION OF DRILLED AND UNDRILLED BOLTS AND PART NUMBERS

NOTES:

- ③
- /1/ MARKING MAY BE EITHER RAISED OR DEPRESSED. THE HEIGHT OR DEPTH OF THE MARKINGS SHALL NOT EXCEED THE FOLLOWING VALUES: .025 INCH FOR Ø.563 BOLTS AND SMALLER; .030 INCH FOR Ø.625 BOLTS AND LARGER. HEAD MARKING MAY INCLUDE MANUFACTURER'S MARKINGS.
 - /2/ GRIP LENGTH OF BOLTS SHALL BE MEASURED FROM THE UNDERSIDE OF THE HEAD TO THE END OF THE FULL CYLINDRICAL PORTION OF THE SHANK. COMPLETE THREADS SHALL BEGIN WITHIN TWO THREAD PITCHES MAXIMUM. TWO THREAD PITCH MAXIMUM MAY CONSIST OF INCOMPLETE THREAD OR EXTRUSION ANGLE.
 - /3/ THE DIAMETER OF THE WASHER FACE SHALL NOT EXCEED THE ACTUAL WIDTH ACROSS FLATS.
 - ③ /4/ 1.0000-14 NF THREAD PITCH INACTIVE FOR DESIGN AFTER 15 JUNE 1966.
 - (5) BOLTS SHALL BE FREE FROM ALL HANGING BURRS AND SLIVERS WHICH MIGHT BECOME DISLODGED UNDER USAGE. COUNTERSINKING OF DRILLED HOLES IN HEAD IS MANDATORY. COUNTERSINKING OF DRILLED HOLES IN SHANK IS OPTIONAL.
 - (6) DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ± .010, ANGLES ± 5°.
 - (7) DIMENSIONS APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.

REVISION

3

NAS3 TURBOMAN
SHEET 2



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