

FED. SUPPLY CLASS

5306

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC.
1000 WILSON BLVD.
ARLINGTON, VA 22209

THIS DRAWING SUPERSEDES ALL ANTECEDENT STANDARD DRAWINGS FOR THE SAME
PRODUCT AND SHALL BECOME EFFECTIVE NO LATER THAN SIX MONTHS FROM THE LAST
REVISION DATE.

FORM 12-01

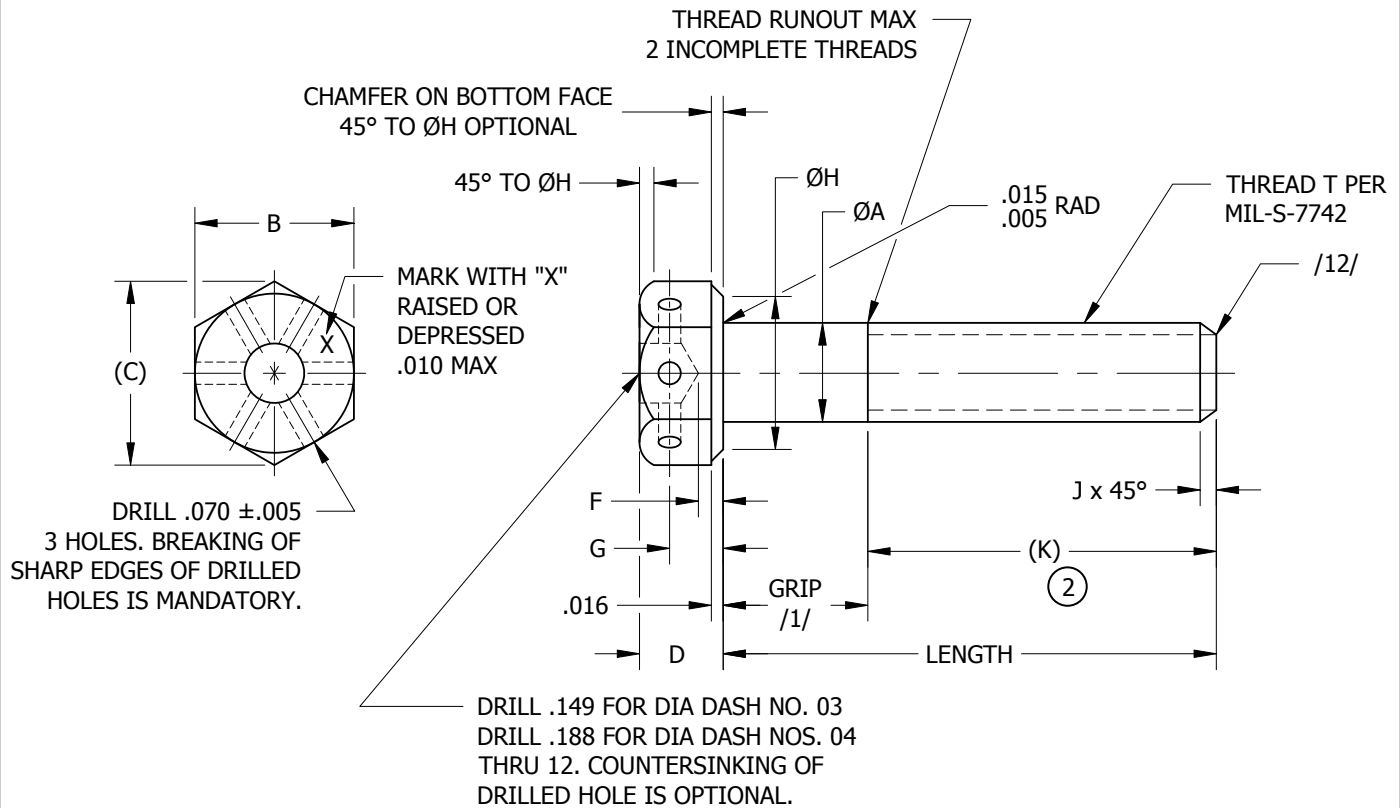


TABLE I – DIMENSIONS

DIA DASH NO.	THREAD T	ØA		B		(C) /2/	D		F MIN	G +.000 -.010	ØH		J		RATED STRENGTH, LBF	
		MAX	MIN	MAX	MIN		MAX	MIN			MAX	MIN	MAX	MIN	TENSION AT ROOT DIA /3/	SINGLE SHEAR AT FULL DIA
03	.1900-32 NF-3A	.189	.186	.376	.367	.430	.203	.172	.039	.120	.391	.359	.047	.015	2,210	2,125
04	.2500-28 UNF-3A	.249	.246	.439	.430	.510	.234	.203	.052	.144	.454	.422	.047	.015	4,080	3,680
05	.3125-24 UNF-3A	.312	.309	.501	.492	.580	.297	.266	.078	.172	.516	.484	.063	.031	6,500	5,750
06	.3750-24 UNF-3A	.374	.371	.564	.554	.650	.297	.266	.078	.172	.579	.547	.063	.031	10,100	8,800
07	.4375-20 UNF-3A	.437	.433	.689	.679	.790	.344	.313	.078	.172	.704	.672	.063	.031	13,600	11,250
08	.5000-20 UNF-3A	.499	.495	.751	.741	.870	.391	.359	.094	.188	.766	.734	.063	.031	18,500	14,700
09	.5625-18 UNF-3A	.562	.558	.876	.865	1.010	.438	.406	.109	.203	.891	.859	.078	.046	23,600	18,700
10	.6250-18 UNF-3A	.624	.620	.939	.928	1.090	.484	.453	.140	.234	.954	.922	.078	.046	30,100	23,000
12	.7500-16 UNF-3A	.749	.744	1.064	1.053	1.230	.578	.547	.187	.281	1.079	1.047	.078	.046	44,000	33,150

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS20073, REVISION B. PART NUMBERS REMAIN MS20073

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 2
PROCUREMENT SPECIFICATION NASM6812	TITLE BOLT, MACHINE, AIRCRAFT, DRILLED HEAD, FINE THREAD	CLASSIFICATION PART STANDARD NASM20073 SHEET 1 OF 4

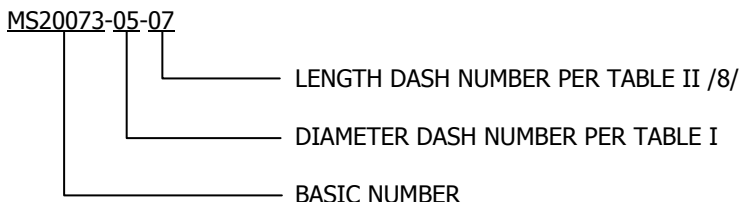
REVISION DATE: SEPTEMBER 19, 2014

ISSUE DATE: NOVEMBER 1999

MATERIAL: STEEL, SEE PROCUREMENT SPECIFICATION.

FINISH: CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 3.

EXAMPLE OF PART NUMBER:



MS20073-05-07 = BOLT, .3125-24 UNF-3A THREAD, .375 GRIP, .922 LONG.

NOTES:

- /1/ 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 PITCH MAXIMUM. TWO-THREAD PITCH MAXIMUM MAY CONSIST OF INCOMPLETE THREAD OR EXTRUSION ANGLE.
- /2/ REFERENCE DIMENSIONS ARE FOR DESIGN PURPOSES ONLY AND ARE NOT AN INSPECTION REQUIREMENT.
- /3/ MINIMUM YIELD STRENGTH = 76.7 PERCENT OF RATED TENSION.
- (4) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (5) TOLERANCES UNLESS OTHERWISE SPECIFIED: DECIMALS $\pm .010$, ANGLES $\pm 5^\circ$.
- (6) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (2) (7) 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.
- /8/ UNASSIGNED LENGTH DASH NUMBERS SHALL NOT BE USED.
- (9) INTERCHANGEABILITY RELATION WITH AN73 THROUGH AN81 PARTS: MS20073 (ASG) PARTS AND AN73 THROUGH AN81 PARTS OF LIKE THREAD AND GRIP LENGTHS ARE UNIVERSALLY FUNCTIONALLY AND DIMENSIONALLY INTERCHANGEABLE.
- (10) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- (11) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.
- /12/ POINT SHALL BE FLAT AND CHAMFERED, LENGTH OF POINT TO FIRST COMPLETE THREAD NOT TO EXCEED J.

REVISION

2

MS20073

SHEET 2



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