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NOTE: This drawing was approved by joint action of the Air Force and Navy Departments as the Air Force-Navy standard for this product. This drawing supersedes all antecedent standard drawings for the same product and shall become effective for the procurement of aeronautical supplies, or for use in new design, not later than 6 months after the latest date of approval shown.

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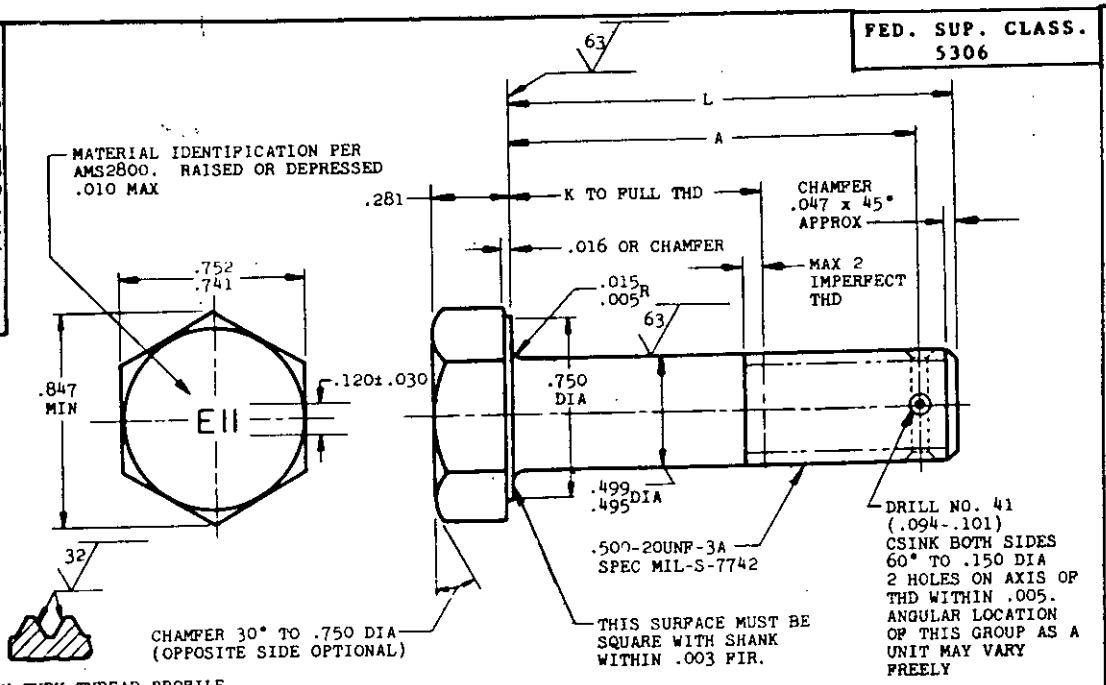
AN102401 THRU AN102500

FED. SUP. CLASS. 5306



SECTION THRU THREAD PROFILE

L	A	K +.000 -.060	PART NO.	L	A	K +.000 -.060	PART NO.	L	A	K +.000 -.060	PART NO.
				2.375	2.235	1.500	AN102424	5.000	4.860	4.125	AN102445
				2.500	2.360	1.625	AN102425	5.125	4.985	4.250	AN102446
				2.625	2.485	1.750	AN102426	5.250	5.110	4.375	AN102447
.938	.798	(a)	AN102406	2.750	2.610	1.875	AN102427	5.375	5.235	4.500	AN102448
1.000	.860	.125	AN102407	2.875	2.735	2.000	AN102428	5.500	5.360	4.625	AN102449
1.062	.922	.188	AN102408	3.000	2.860	2.125	AN102429	5.625	5.485	4.750	AN102450
1.125	.985	.250	AN102409	3.125	2.985	2.250	AN102430	5.750	5.610	4.875	AN102451
1.188	1.048	.312	AN102410	3.250	3.110	2.375	AN102431	5.875	5.735	5.000	AN102452
1.250	1.110	.375	AN102411	3.375	3.235	2.500	AN102432	6.000	5.860	5.125	AN102453
1.312	1.172	.438	AN102412	3.500	3.360	2.625	AN102433				
1.375	1.235	.500	AN102413	3.625	3.485	2.750	AN102434				
1.438	1.298	.562	AN102414	3.750	3.610	2.875	AN102435				
1.500	1.360	.625	AN102415	3.875	3.735	3.000	AN102436				
1.562	1.422	.688	AN102416	4.000	3.860	3.125	AN102437				
1.625	1.485	.750	AN102417	4.125	3.985	3.250	AN102438				
1.688	1.548	.812	AN102418	4.250	4.110	3.375	AN102439				
1.750	1.610	.875	AN102419	4.375	4.235	3.500	AN102440				
1.875	1.735	1.000	AN102420	4.500	4.360	3.625	AN102441				
2.000	1.860	1.125	AN102421	4.625	4.485	3.750	AN102442				
2.125	1.985	1.250	AN102422	4.750	4.610	3.875	AN102443				
2.250	2.110	1.375	AN102423	4.875	4.735	4.000	AN102444				

(a) THREAD TO HEAD. MAXIMUM TWO IMPERFECT THREADS.

NOTE: (1) SHANK SHALL BE STRAIGHT WITHIN .002 FIR. PER INCH OF BOLT LENGTH.
(2) THE CONCENTRICITY OF THREAD PD IN RELATION TO THE SHANK SHALL BE WITHIN .006 FIR.
(3) THE CONCENTRICITY OF THE SHANK IN RELATION TO THE WASHER FACE DIAMETER AND HEXAGON SHALL BE WITHIN .023 FIR.

MATERIAL: STEEL AMS6322
HARDNESS: ROCKWELL C26-32
FINISH: CADMIUM PLATE AMS2400
SURFACE ROUGHNESS: AS107
MANUFACTURING SPECIFICATION: AMS7452
BREAK SHARP EDGES .003-.015 UNLESS OTHERWISE SPECIFIED.
DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED: TOLERANCES; LINEAR DIMENSIONS ±.010, ANGULAR DIMENSIONS ±2°.
DO NOT USE UNASSIGNED PART NUMBERS.
(3) INSPECTION: ALL PARTS SHALL UNDERGO MAGNETIC INSPECTION IN ACCORDANCE WITH AMS2640

INACTIVE FOR NEW DESIGN AFTER 3 MARCH 1969 NO SUPERSEDING STANDARD.

THIS STANDARD WAS DEVELOPED COOPERATIVELY BY THE ENGINE AND PROPELLER UTILITY PARTS COMMITTEE OF THE SAE.

APPROVED 8 June 49 REVISED (1) 31 Aug 54 (2) 3 Mar 69 (3) 30 June 86

P.A. AF-11 CUST. NAVY-AS ARMY-AV	AIR FORCE-NAVY AERONAUTICAL STANDARD BOLT - HEX HEAD, DRILLED SHANK, .500-20	AN102401 THRU AN102500

Project No. 5306-1009