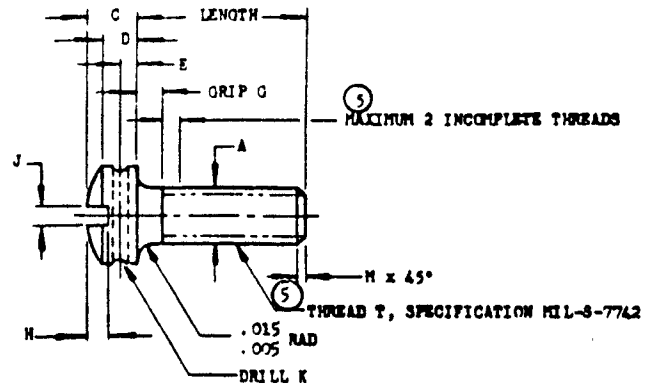


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This drawing was approved by joint action of the Air Force and Navy Departments on the Air Force Navy Agreement. The drawing represents an amended standard drawing for the same product and shall be used for the procurement of equipment, or for use in new design, and later than 6 months after date of approval shown.

HAPT WITH RAISED OR
 RECESSED K. ONLY ONE
 METHOD IS VISIBLE AFTER
 SLOTTING.
 POSITION OPTIONAL.

SEE NOTE (a)



THREAD T	.A MAX DIA	B DIA		C		D		(g) E REF	GRIP G		H		J		(h) K DRILL +.004 -.001	M MAX
		MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN			
NO. 6-32 UNC-3A	.1380	.226	.208	.132	.118	.096	.099	.043	.063	.031	.045	.035	.048	.039	.046	.031
NO. 8-32 UNC-3A	.1640	.270	.250	.156	.141	.113	.106	.043	.063	.031	.065	.054	.054	.044	.046	.031
NO. 10-24 UNC-3A	.1900	.313	.292	.180	.165	.130	.123	.043	.063	.031	.075	.064	.060	.050	.046	.031
1/4-20 UNC-3A	.2500	.414	.399	.237	.219	.170	.161	.062	.078	.046	.102	.087	.075	.064	.062	.031
5/16-18 UNC-3A	.3125	.518	.490	.295	.276	.211	.201	.078	.078	.046	.130	.110	.084	.072	.070	.047

LENGTH		DASH NUMBERS				
		NO. 6-32	NO. 8-32	NO. 10-24	1/4-20	5/16-18
1/8	+0 1/16	(b) ←→ 6-6	(b) ←→ 8-6	(b) ←→ 10-6		
1/4		6-8	8-8	10-8	416-8	
3/8	+0 1/16		8-10	10-10	416-10	
1/2			8-12	10-12	416-12	516-12
5/8	+0 1/16		8-14	10-14	416-14	516-14
3/4			8-16	10-16	416-16	516-16
7/8	+0 1/16			10-18	416-18	516-18
1				10-20	416-20	516-20
1-1/8	+0 1/16			10-22	416-22	516-22
1-1/4				10-24	416-24	516-24
1-3/8	+0 1/16			10-26	416-26	516-26
1-1/2					416-28	516-28
1-5/8	+0 1/16			10-30	416-30	516-30
1-3/4					416-32	516-32
1-7/8	+0 1/16					
2						

- (a) DRILLED HOLE TO BE ON CENTER APPROXIMATELY AT RIGHT ANGLES TO THE SLOT BUT MUST NOT BREAK THROUGH THE BASE OR TOP (SYMMETRICAL PORTION) OF THE HEAD.
 - (b) PART NUMBERS AN503-6-2, AN503-8-2, AND AN503-10-4 INACTIVE FOR DESIGN AFTER 23 JANUARY 1946. FOR DEFINITION AND APPLICATION OF DASHING STATUS NOTES, SEE AIA BULLETIN NO. 337.
 - (c) REFERENCE DIMENSIONS ARE FOR DESIGN PURPOSES ONLY AND ARE NOT AN INSPECTION REQUIREMENT.
 - (d) NOT PREFERRED FOR AIRFRAME USE.
- MATERIAL: STEEL, SPECIFICATION AN-8-9, MIL-S-6050, OR OTHER STEEL MEETING THE SAME PHYSICAL REQUIREMENTS.
 HEAT TREAT: 170,000 TO 145,000 PSI TENSILE STRENGTH, SPECIFICATION MIL-H-6875.
 FINISH: CADMIUM PLATE, SPECIFICATION QQ-P-416, TYPE I, CLASS C.
 EXAMPLE OF PART NO.: AN503-8-10 = NO. 8-32 SCREW, 5/8 INCH LONG.
 SCREWS SHALL BE FREE OF ALL LOOSE OR HANGING BURRS OR SLIVERS WHICH MIGHT BECOME DISLODGED UNDER USAGE.
 DIMENSIONS IN INCHES.

PROCUREMENT
 SPECIFICATION
 MIL-S-7839

AIR FORCE-NAVY AERONAUTICAL STANDARD
 SCREW - MACHINE, DRILLED FILLISTER
 HEAD, COARSE THREAD

AN503

SUPERSEDES USAF DRAWING S.3 AND
 SUPERSEDES NAIF DRAWING 1124

APPROVED 12 Apr 44 REVISED 1 30 Jun 45 2 23 Jan 46 7 12 May 50 4 5 Jun 51 5 11 May 53

AMO 9-2