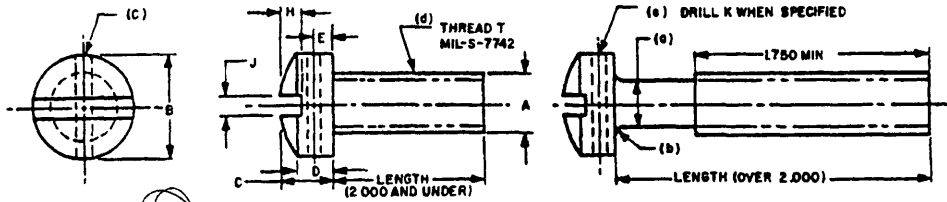


NAVY AIR 1000A (Rev 5-51)

FSC 5306



THREAD T UNF-2	A MAX DIA	B		C		D		(F) E REF	H		J		K DRILL + .004 - .001
		MAX	MIN	MAX	MIN	MAX	MIN		MAX	MIN	MAX	MIN	
NO 0-80	.0600	.094	.083	.054	.045	.038	.029		.024	.014	.031	.020	
NO 1-72	.0730	.118	.105	.064	.057	.046	.037		.029	.019	.033	.022	
NO 2-64	.0860	.140	.124	.083	.070	.062	.055	.026	.030	.022	.031	.025	.031
NO 3-56	.0990	.161	.145	.095	.082	.070	.064	.030	.034	.026	.035	.027	.037
NO 4-48	.1120	.183	.166	.107	.094	.079	.072	.035	.038	.030	.039	.031	.037
NO 5-44	.1250	.205	.187	.130	.106	.088	.081	.036	.043	.033	.043	.035	.046
NO 6-40	.1380	.226	.208	.132	.110	.094	.085	.043	.045	.035	.048	.039	.046
NO 8-36	.1640	.270	.250	.156	.141	.113	.106	.045	.065	.054	.054	.045	.046
NO 10-32	.1900	.313	.292	.180	.165	.130	.123	.043	.075	.064	.060	.050	.046
1/4-28	.2500	.414	.389	.237	.219	.170	.161	.062	.102	.087	.075	.064	.062
5/16-24	.3125	.518	.490	.295	.276	.211	.201	.078	.130	.110	.084	.072	.070
3/8-24	.3750	.622	.590	.355	.333	.253	.242	.094	.154	.134	.094	.081	.070

DASH NUMBERS FOR UNDRILLED CARBON STEEL SCREWS

LENGTH	NO 0-80	NO 1-72	NO 2-64	NO 3-56	NO 4-48	NO 5-44	NO 6-40	NO 8-36	NO 10-32	1/4-28	5/16-24	3/8-24
1/8	0-2	1-2	2-3	3-3	4-3	5-3						
3/16	0-3	1-3										
1/4	0-4	1-4	2-4	3-4	4-4	5-4	6-4	8-4	10-4			
5/16	0-5	1-5	2-5	3-5	4-5	5-5	6-5	8-5	10-5	416-5		
3/8	0-6	1-6	2-6	3-6	4-6	5-6	6-6	8-6	10-6	416-6		
7/16	0-7	1-7	2-7	3-7	4-7	5-7	6-7	8-7	10-7	416-7		
1/2	0-8	1-8	2-8	3-8	4-8	5-8	6-8	8-8	10-8	416-8	516-8	616-8
5/8	0-10	1-10	2-10	3-10	4-10	5-10	6-10	8-10	10-10	416-10	516-10	616-10
3/4	0-12	1-12	2-12	3-12	4-12	5-12	6-12	8-12	10-12	416-12	516-12	616-12
7/8	0-14	1-14	2-14	3-14	4-14	5-14	6-14	8-14	10-14	416-14	516-14	616-14
1	0-16	1-16	2-16	3-16	4-16	5-16	6-16	8-16	10-16	416-16	516-16	616-16
1-1/8					4-18	5-18	6-18	8-18	10-18	416-18	516-18	616-18
1-1/4					4-20	5-20	6-20	8-20	10-20	416-20	516-20	616-20
1-3/8					4-22	5-22	6-22	8-22	10-22	416-22	516-22	616-22
1-1/2					4-24	5-24	6-24	8-24	10-24	416-24	516-24	616-24
1-3/4					4-28	5-28	6-28	8-28	10-28	416-28	516-28	616-28
2					4-32	5-32	6-32	8-32	10-32	416-32	516-32	616-32
2-1/2									10-40	416-40	516-40	616-40
3									10-48	416-48	516-48	616-48

- (a) THE DIAMETER OF THE UNTHREADED PORTION SHALL NOT BE LESS THAN THE MINIMUM PITCH DIAMETER NOR MORE THAN THE MAXIMUM MAJOR DIAMETER OF THE THREAD
- (b) THE RADIUS OF THE FILLET AT THE BASE OF THE HEAD SHALL NOT EXCEED ONE-HALF THE PITCH OF THE SCREW THREAD
- (c) DRILLED HOLE TO BE ON CENTER APPROXIMATELY AT RIGHT ANGLES TO THE SLOT BUT MUST NOT BREAK THROUGH THE BASE OR TOP (SPHERICAL PORTION) OF THE HEAD
- (d) FOR MACHINE SCREWS 2 INCHES LONG AND SHORTER, THE COMPLETE THREADS SHALL EXTEND TO WITHIN TWO THREADS OF THE BEARING SURFACE OF THE HEAD OR CLOSER IF PRACTICABLE. SCREWS OF LONGER LENGTH SHALL HAVE A MINIMUM COMPLETE THREAD LENGTH OF 1-3/4 INCHES
- (e) ALL FILLISTER HEAD SCREWS WITH UNDRILLED HEADS, AND SIZES NO 0-80 THRU NO 8-36 INACTIVE FOR DESIGN AFTER 12 MAY 1950. FOR DEFINITION AND APPLICATION OF DRAWING STATUS NOTES, SEE DOD-D-1000
- (f) REFERENCE DIMENSIONS ARE FOR DESIGN PURPOSES ONLY AND ARE NOT AN INSPECTION REQUIREMENT.
- (g) AN501 SCREWS CAN UNIVERSALLY REPLACE AN501C SCREWS OF LIKE THREAD SIZE AND LENGTH, BUT THE AN501C SCREWS CANNOT UNIVERSALLY REPLACE THE AN501 SCREWS
- (h) PARTS MARKED (h) NOT COVERED ON SUPERSEDING IS DOCUMENTS

~~USE 1035266, 1035274 AND 1035276~~

INTERCHANGEABILITY RELATIONSHIP: 1035266, 1035274 AND 1035276 PARTS CAN BE UNIVERSALLY SUBSTITUTED IN ACCORDANCE WITH THE INTERCHANGEABILITY TABLES OF 1035266, 1035274 AND 1035276 FOR AN501 PARTS EXCEPT AS NOTED IN (h) ABOVE

- (5) SHEET 2 ADDED
- (5) FOR CHANGES SEE SHEETS 1 AND 2
- (6) REINSTATED AS OF 12 NOV 1980.

DIMENSIONS IN INCHES
 IN CASE OF CONFLICT, THE REQUIREMENTS SPECIFIED HEREON SHALL TAKE PRECEDENCE OVER THE REQUIREMENTS SPECIFIED IN FF-S-92

PROCUREMENT SPECIFICATION FF-S-92	AIR FORCE-NAVY AERONAUTICAL STANDARD	AN501
	SCREW, MACHINE, FILLISTER HEAD, FINE THREAD	
		SHEET 1 OF 2

NOTICE: When Government drawings, specifications or other data are used for any purpose other than in connection with a definite, stated Government procurement operation, the United States Government hereby incurs no liability, nor any obligation whatsoever, and the fact that the Government may have furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded as an implied or otherwise in any manner licensing the holder or any other person, or corporation, or conveying any rights or privilege to manufacture, use, or sell any patented invention that may in any way be related thereto.

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.

APPROVED 12 APR 64 REVISED 29 NOV 65 12 NOV 80

SUPERSEDES USAF DRAWING 501 AND SUPERSEDES NAF DRAWING 1164 FOR BRASS ONLY

FSC 5306

NOTICE: When Government drawings, specifications or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

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 above.

MATERIAL: CARBON STEEL, QQ-S-637 TYPE F51010, 60,000 PSI MINIMUM TENSILE STRENGTH OR OTHER STEEL MEETING THE SAME PHYSICAL REQUIREMENTS

~~CORROSION RESISTANT STEEL, QQ-S-763, CLASS IV, MIL-S-7720, COMPOSITION FN OR O FOR COLD UPSETTING PROCESS, OR NON-MAGNETIC EQUIVALENT~~
 CORROSION RESISTANT STEEL, FEDERAL STANDARD NO. 66, TYPE 302, 304, 316, AND 303 SE
 BRASS, COMMERCIAL, 55,000 PSI MINIMUM ULTIMATE TENSILE STRENGTH

FINISH: CARBON STEEL, CADMIUM PLATE, QQ-P-416, TYPE 1, CLASS 3. CORROSION RESISTANT STEEL, PASSIVATE. ~~BRASS, NONE~~

PLAIN DASH NUMBER INDICATES CARBON STEEL
 ADD A BEFORE FIRST DASH NUMBER FOR DRILLED HEAD.
 ADD B BEFORE FIRST DASH NUMBER FOR BRASS

~~ADD C BEFORE FIRST DASH NUMBER FOR CORROSION RESISTANT STEEL~~ NOT TO BE USED FOR NEW DESIGN.
 ADD D BEFORE FIRST DASH NUMBER FOR CORROSION RESISTANT STEEL.

- EXAMPLES OF PART NUMBERS**
- (e) ~~AN501-6-8 - NO 6-40 UNDRILLED CARBON STEEL SCREW, 1/2 INCH LONG~~
 AN501A10-8 = NO. 10-32 DRILLED CARBON STEEL SCREW, 1/2 INCH LONG
 - (e) ~~AN501B10-8 = NO 10-32 DRILLED BRASS SCREW, 1/2 INCH LONG~~
~~AN501C6-8 - NO 6-40 UNDRILLED BRASS SCREW, 1/2 INCH LONG~~
~~AN501A10-8 - NO 10-32 DRILLED CORROSION RESISTANT STEEL SCREW, 1/2 INCH LONG~~
 AN501AD10-8 = NO 10-32 DRILLED CORROSION RESISTANT STEEL SCREW, 1/2 INCH LONG

SCREWS SHALL BE FREE OF ALL LOOSE OR HANGING BURRS OR SLIVERS WHICH MIGHT BECOME DISLODGED UNDER USAGE

APPROVED 12 APR 64 REVISED 5 29 NOV 65 6 12 NOV 80

PROCUREMENT SPECIFICATION FF-S-92	AIR FORCE - NAVY AERONAUTICAL STANDARD	
	SCREW, MACHINE, FILLISTER HEAD, FINE THREAD	
		AN501
		SHEET 2 OF 2

SUPERSEDES USAF DRAWING 501 AND SUPERSEDES NAF DRAWING 1164 FOR BRASS ONLY