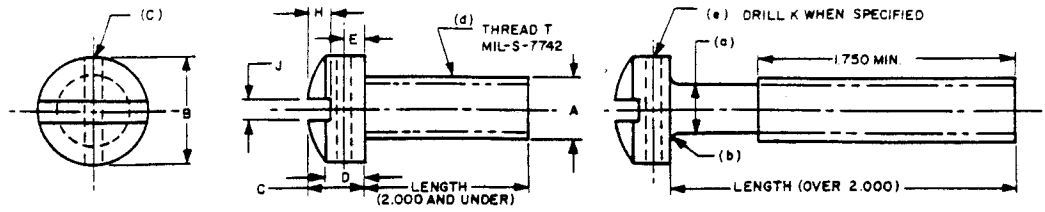


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DAVAER (DNGA Rev. -51)

FSC 3306

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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	.096	.093	.054	.045	.038	.039		.024	.014	.031	.020	
NO. 1-72	.0730	.118	.103	.066	.057	.046	.037		.029	.019	.033	.022	
NO. 2-64	.0860	.140	.124	.083	.070	.052	.045	.026	.030	.022	.031	.023	.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	.120	.106	.098	.081	.038	.042	.033	.043	.035	.046
NO. 6-40	.1380	.226	.208	.132	.118	.096	.089	.043	.045	.035	.048	.039	.046
NO. 8-36	.1640	.270	.250	.156	.141	.113	.106	.043	.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										
3/16	0-3	1-3	2-3	3-3	4-3	5-3						
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 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 JOD-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.

~~CANCELED AND INACTIVE FOR DESIGN AFTER 29 NOVEMBER 1965.~~
~~USE M35266, M35274 AND M35276.~~

INTERCHANGEABILITY RELATIONSHIP: M35266, M35274 AND M35276 PARTS CAN BE UNIVERSALLY SUBSTITUTED IN ACCORDANCE WITH THE INTERCHANGEABILITY TABLES OF M35266, M35274 AND M35276 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

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

APPROVED 12 APR 44 REVISED 29 NOV 65 12 NOV 80

H1107-3

MATERIAL: CARBON STEEL, QQ-S-637 TYPE FS1010, 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 FM OR G 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 I, 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.
 AN501AB10-8 = NO. 10-32 DRILLED BRASS SCREW, 1/2 INCH LONG.
 (e) ~~AN501B6 8 - NO. 6 40 UNDRILLED BRASS SCREW, 1/2 INCH LONG.~~
~~AN501AC10 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 44 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

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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.