



User Activities :
Review Activities :
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BASIC AN PART NO.	THREAD T	A +.000 .002 DIA	B DIA	C	D	E REF	H	J DRILL +.010 .000 DIA	K +.018	M +.005 DIA	P	RATED STRENGTH, POUNDS	
												SINGLE SHEAR AT FULL DIA	(b) TENSILE
AN21	NO. 6-40UNF-3A	.186	5/16	3/64	1/32	5/32	5/64	.038	.031	.100	1/32	1 060	510
AN22	NO. 8-36UNF-3A	.162	3/8	1/16	3/64	5/32	3/32	.070	.031	.120	1/32	1 500	760
AN23	NO. 10-32UNF-3A	.186	3/8	1/16	3/64	3/16	3/32	.070	.031	.141	3/64	2 126	1 106
AN24	1/4 -28UNF-3A	.248	1/2	3/32	1/16	3/16	1/8	.076	.031	.196	3/64	3 690	2 040
AN25	5/16-24UNF-3A	.311	5/8	7/64	5/64	3/16	5/32	.076	.047	.250	1/16	5 760	3 250
AN26	3/8 -24UNF-3A	.373	11/16	9/64	3/32	7/32	3/16	.106	.047	.313	1/16	8 280	5 050
AN27	7/16-20UNF-3A	.486	18/16	5/32	3/32	7/32	7/32	.106	.047	.360	1/16	11 250	6 800
AN28	1/2 -20UNF-3A	.497	7/8	11/64	7/64	1/4	1/4	.106	.047	.422	1/16	14 700	9 260
AN29	9/16-18UNF-3A	.560	1	3/16	7/64	5/16	9/32	.141	.062	.482	5/64	18 700	11 800
AN30	5/8 -18UNF-3A	.622	1-1/8	3/16	1/8	5/16	5/16	.141	.062	.546	5/64	22 000	15 050
AN32	3/4 -18UNF-3A	.747	1-5/16	13/64	9/64	3/8	3/8	.141	.062	.660	3/32	33 160	22 000
AN34	7/8 -14UNF-3A	.871	1-1/2	7/32	5/32	7/16	7/16	.141	.078	.773	3/32	46 050	30 000
(d) AN36	1 -14UNF-3A	.990	1-3/4	13/64	11/64	1/2	1/2	.141	.078	.996	3/32	58 900	40 860
AN37	1 -12UNF-3A	.996	1-3/4	15/16	11/64	1/2	1/2	.141	.078	.998	3/32	58 800	40 360

- (a) COTTER PIN HOLE CENTERLINE SHALL BE WITHIN .010 INCH OF BOLT CENTERLINE FOR 5/16 DIAMETER BOLTS AND SMALLER, AND WITHIN .015 INCH FOR 3/8 DIAMETER BOLTS AND LARGER. COTTER PIN HOLE TO BE NORMAL TO BOLT CENTERLINE WITHIN 2°.
 - (b) RATED TENSILE STRENGTHS APPLICABLE ONLY WHEN SHEAR NUT AN320 OR THIN NUT AN364 IS USED.
 - (c) GRIP LENGTH OF BOLTS SHALL BE MEASURED FROM THE UNDERSIDE OF THE HEAD TO THE END OF THE FULL CYLINDRICAL PORTION OF THE SHANK.
 - (d) 1-4 NF-3 THREAD PITCH INACTIVE FOR DESIGN AFTER 15 JUNE 1966.
- MATERIAL: NON-CORROSION RESISTING STEEL. SEE PROCUREMENT SPECIFICATION.
- ⑦ FINISH: CADMIUM PLATE, SPECIFICATION QQ-P-416 TYPE II, CLASS 2.
- ADD A AFTER DASH NUMBER FOR BOLT WITHOUT COTTER PIN HOLE.
- EXAMPLES OF PART NUMBERS: AN21-14 = NO. 6 BOLT, 2 3/32 INCH LONG, WITH COTTER PIN HOLE.
AN21-14A = NO. 6 BOLT, 2 3/32 INCH LONG, WITHOUT COTTER PIN HOLE.
- POSITION OF SLOT IN HEAD RELATIVE TO COTTER PIN HOLE OPTIONAL.
- BOLTS SHALL BE FREE FROM ALL HANGING BURRS AND SLIVERS WHICH MIGHT BECOME DISLODGED UNDER USAGE. COUNTERSINKING OF DRILLED HOLES IS OPTIONAL.
- DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ± .010, FRACTIONS ± 1/64, ANGLES ± 6°.

LENGTHS LONGER THAN THOSE TABULATED ON SHEETS 2 AND 3 ARE AVAILABLE IN 1/8 INCH INCREMENTS BY USE OF SIGNIFICANT DASH NUMBERS.

NOTE: This drawing was approved by Joint Office of the Air Force and Navy Departments as the Air Force-Navy standard for this product. This drawing represents an established standard drawing for the same product and shall hereinafter be the procurement of unmanufactured supplies, or for use in new design, set here this 6 months after the latest date of approval shown.

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DASH NO.	AN21		AN22		AN23		AN24		AN25		AN26		AN27	
	ORIT	LENGTH	GRIP	LENGTH	GRIP	LENGTH	GRIP	LENGTH	GRIP	LENGTH	GRIP	LENGTH	GRIP	LENGTH
5	1/16	11/32	1/16	11/32										
6	1/8	13/32	1/8	13/32										
7	3/16	15/32	3/16	15/32										
8	1/4	17/32	1/4	17/32	5/16	17/32	3/8	17/32						
9	5/16	19/32	5/16	19/32	1/2	19/32	1/2	19/32	1/2	19/32	1/2	19/32		
10	3/8	21/32	3/8	21/32	5/16	21/32	5/16	21/32	5/16	21/32	5/16	21/32		
11	7/16	23/32	7/16	23/32	3/8	23/32	3/8	23/32	3/8	23/32	3/8	23/32		
12	1/2	25/32	1/2	25/32	7/16	25/32	7/16	25/32	7/16	25/32	7/16	25/32	3/8	51/64
13	9/16	27/32	9/16	27/32	1/2	27/32	1/2	27/32	1/2	27/32	1/2	27/32	7/16	55/64
14	5/8	29/32	5/8	29/32	9/16	29/32	9/16	29/32	9/16	29/32	9/16	29/32	1/2	59/64
15	11/16	31/32	11/16	31/32	5/8	31/32	5/8	31/32	5/8	31/32	5/8	31/32	9/16	63/64
16	3/4	1-1/32	3/4	1-1/32	11/16	1-1/32	11/16	1-1/32	11/16	1-1/32	11/16	1-1/32	5/8	1-3/64
17	13/16	1-3/32	13/16	1-3/32	3/4	1-3/32	3/4	1-3/32	3/4	1-3/32	3/4	1-3/32	11/16	1-7/64
18	7/8	1-5/32	7/8	1-5/32	13/16	1-5/32	13/16	1-5/32	13/16	1-5/32	13/16	1-5/32	3/4	1-11/64
19	15/16	1-7/32	15/16	1-7/32	7/8	1-7/32	7/8	1-7/32	7/8	1-7/32	7/8	1-7/32	13/16	1-15/64
20	1	1-9/32	1	1-9/32	15/16	1-9/32	15/16	1-9/32	15/16	1-9/32	15/16	1-9/32	7/8	1-19/64
21	1-1/16	1-11/32	1-1/16	1-11/32	1	1-11/32	1	1-11/32	1	1-11/32	1	1-11/32	15/16	1-23/64
22	1-1/8	1-13/32	1-1/8	1-13/32	1-1/2	1-13/32	1-1/2	1-13/32	1-1/2	1-13/32	1-1/2	1-13/32	1	1-27/64
23	1-3/16	1-15/32	1-3/16	1-15/32	1-1/8	1-15/32	1-1/8	1-15/32	1-1/8	1-15/32	1-1/8	1-15/32	1-1/16	1-31/64
24	1-1/4	1-17/32	1-1/4	1-17/32	1-3/16	1-17/32	1-3/16	1-17/32	1-3/16	1-17/32	1-3/16	1-17/32	1-1/8	1-35/64
25	1-5/16	1-19/32	1-5/16	1-19/32	1-1/4	1-19/32	1-1/4	1-19/32	1-1/4	1-19/32	1-1/4	1-19/32	1-3/16	1-39/64
26	1-3/8	1-21/32	1-3/8	1-21/32	1-5/16	1-21/32	1-5/16	1-21/32	1-5/16	1-21/32	1-5/16	1-21/32	1-1/4	1-43/64
27	1-7/16	1-23/32	1-7/16	1-23/32	1-3/8	1-23/32	1-3/8	1-23/32	1-3/8	1-23/32	1-3/8	1-23/32	1-5/16	1-47/64
28	1-1/2	1-25/32	1-1/2	1-25/32	1-7/16	1-25/32	1-7/16	1-25/32	1-7/16	1-25/32	1-7/16	1-25/32	1-3/8	1-51/64
29	1-9/16	1-27/32	1-9/16	1-27/32	1-1/2	1-27/32	1-1/2	1-27/32	1-1/2	1-27/32	1-1/2	1-27/32	1-7/16	1-55/64
30	1-5/8	1-29/32	1-5/8	1-29/32	1-9/16	1-29/32	1-9/16	1-29/32	1-9/16	1-29/32	1-9/16	1-29/32	1-1/2	1-59/64
31	1-11/16	1-31/32	1-11/16	1-31/32	1-5/8	1-31/32	1-5/8	1-31/32	1-5/8	1-31/32	1-5/8	1-31/32	1-9/16	1-63/64
32	1-3/4	2-1/32	1-3/4	2-1/32	1-11/16	2-1/32	1-11/16	2-1/32	1-11/16	2-1/32	1-11/16	2-1/32	1-5/8	2-3/64
34					1-13/16	2-5/32	1-13/16	2-5/32	1-13/16	2-5/32	1-13/16	2-5/32	1-11/16	2-11/64
36					1-15/16	2-9/32	1-15/16	2-9/32	1-15/16	2-9/32	1-15/16	2-9/32	1-15/16	2-19/64
38					2-1/16	2-13/32	2-1/16	2-13/32	2-1/16	2-13/32	2-1/16	2-13/32	2	2-27/64
40					2-3/16	2-17/32	2-3/16	2-17/32	2-3/16	2-17/32	2-3/16	2-17/32	2-1/8	2-35/64
42					2-5/16	2-21/32	2-5/16	2-21/32	2-5/16	2-21/32	2-5/16	2-21/32	2-1/4	2-43/64
44					2-7/16	2-25/32	2-7/16	2-25/32	2-7/16	2-25/32	2-7/16	2-25/32	2-3/8	2-51/64
46					2-9/16	2-29/32	2-9/16	2-29/32	2-9/16	2-29/32	2-9/16	2-29/32	2-1/2	2-59/64
48					2-11/16	3-1/32	2-11/16	3-1/32	2-11/16	3-1/32	2-11/16	3-1/32	2-5/8	3-3/64
50					2-13/16	3-5/32	2-13/16	3-5/32	2-13/16	3-5/32	2-13/16	3-5/32	2-3/4	3-11/64
52					2-15/16	3-9/32	2-15/16	3-9/32	2-15/16	3-9/32	2-15/16	3-9/32	2-7/8	3-19/64
54					3-1/16	3-13/32	3-1/16	3-13/32	3-1/16	3-13/32	3-1/16	3-13/32	3	3-27/64
56					3-3/16	3-17/32	3-3/16	3-17/32	3-3/16	3-17/32	3-3/16	3-17/32	3-2/8	3-35/64
58					3-5/16	3-21/32	3-5/16	3-21/32	3-5/16	3-21/32	3-5/16	3-21/32	3-1/4	3-43/64
60					3-7/16	3-25/32	3-7/16	3-25/32	3-7/16	3-25/32	3-7/16	3-25/32	3-3/8	3-51/64
62					3-9/16	3-29/32	3-9/16	3-29/32	3-9/16	3-29/32	3-9/16	3-29/32	3-1/2	3-59/64
64					3-11/16	4-1/32	3-11/16	4-1/32	3-11/16	4-1/32	3-11/16	4-1/32	3-5/8	4-3/64
66							3-13/16	4-5/32					3-3/4	4-11/64
68							3-15/16	4-9/32					3-7/8	4-19/64
70							4-1/16	4-13/32					4	4-27/64
72							4-3/16	4-17/32					4-1/8	4-35/64
74							4-5/16	4-21/32					4-1/4	4-43/64
76							4-7/16	4-25/32					4-3/8	4-51/64
78							4-9/16	4-29/32					4-1/2	4-59/64
80							4-11/16	5-1/32					4-5/8	5-3/64
82							4-13/16	5-5/32					4-3/4	5-11/64
84							4-15/16	5-9/32					4-7/8	5-19/64
86							5-1/16	5-13/32					5	5-27/64
88													5-1/8	5-35/64
90													5-1/4	5-43/64
92													5-3/8	5-51/64

Use Activities:
 Review Activities:
 DLA - IS

NOTE: This drawing was approved by joint action of the Air Force and Navy Departments on the Air Force-Navy standard for this product. This drawing represents all standard standard drawings for this same product and shall become obsolete for the procurement of replacement supplies, or for use in new designs, and later than 5 months after the latest date of approval shown.

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AIR FORCE-NAVY AERONAUTICAL STANDARD

AN21 THRU AN37

APPROVED 16 Nov 82 REVISED 20 Nov 81 FOR CHANGES SEE SHEET 2 OF 2 1983