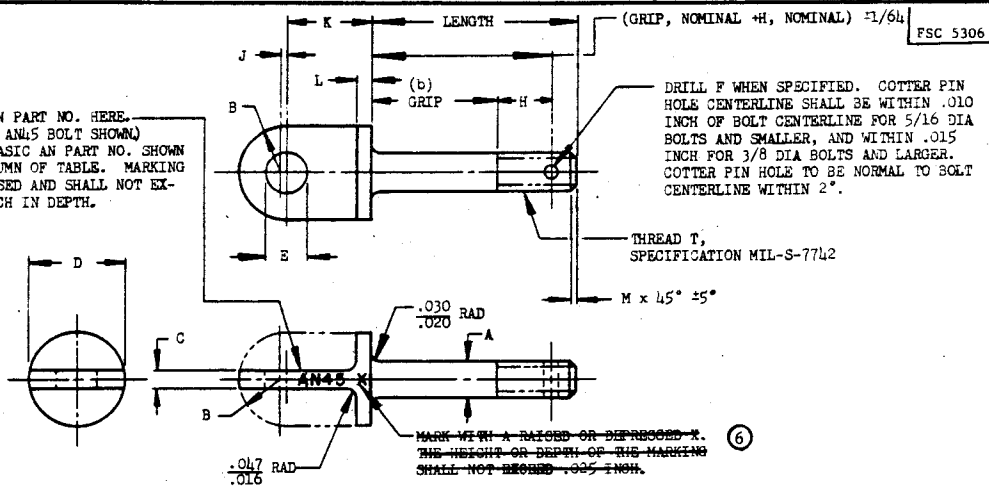


45
 NATAS 5306 (REV. 6-75)

NOTE: 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 furnished, transmitted, or in any way supplied the said drawings, specifications, or other data in no way shall be construed as an acknowledgment of the Government's liability for any other person or corporation, or conveying any rights or permission to manufacturer, user, 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. The drawing represents all successful standard drawings for the same product and shall be used for procurement of aeronautical supplies, or for use in new designs, not later than 6 months after the latest date of approval above.

MARK BASIC AN PART NO. HERE.
 (MARKING FOR AN45 BOLT SHOWN)
 APPLICABLE BASIC AN PART NO. SHOWN
 IN FIRST COLUMN OF TABLE. MARKING
 TO BE DEPRESSED AND SHALL NOT EX-
 CEED .025 INCH IN DEPTH.



(GRIP, NOMINAL \pm H, NOMINAL) $\pm 1/64$
 FSC 5306
 DRILL F WHEN SPECIFIED. COTTER PIN
 HOLE CENTERLINE SHALL BE WITHIN .010
 INCH OF BOLT CENTERLINE FOR 5/16 DIA
 BOLTS AND SMALLER, AND WITHIN .015
 INCH FOR 3/8 DIA BOLTS AND LARGER.
 COTTER PIN HOLE TO BE NORMAL TO BOLT
 CENTERLINE WITHIN 2°.

THREAD T,
 SPECIFICATION MIL-S-7742
 $M \times 45^\circ \pm 5^\circ$

MARK WITH A RAISED OR DEPRESSED 'X'.
 THE HEIGHT OR DEPTH OF THE MARKING
 SHALL NOT EXCEED .025 INCH.

BASIC AN PART NO.	THREAD T	A DIA		B RAD	C $\pm .005$	D DIA	E DIA		F $\pm .010$	(a) H REF	J	K	L	M	RATED STRENGTH, POUNDS		(a) PIN DIA REF
		MAX	MIN				MAX	MIN							TENSILE STRENGTH OF EYE	YIELD STRENGTH OF EYE	
(c) AN42 AN42B	NO. 10-32 UNF-3A	.189	.186	7/32	.094	7/16	.191 .192	.188 .190	.070	17/64	1/32	13/32	1/16	1/32	1 150	880	3/16
(c) AN43 AN43B	1/4-28 UNF-3A	.249	.246	1/4	.125	1/2	.191 .192	.188 .190	.076	5/16	1/32	15/32	5/64	1/32	2 450	1 880	3/16
AN44	5/16-24 UNF-3A	.312	.309	5/16		5/8	.253	.250	.076	23/64		17/32			3 910	3 000	1/4
AN45	5/16-24 UNF-3A	.312	.309	11/32	.188	11/16	.316	.313	.076	23/64	3/64	19/32	3/32	3/64	5 290	4 055	5/16
AN46	3/8-24 UNF-3A	.374	.371	3/8		3/4	.378	.375	.106	7/16		19/32			7 015	5 375	3/8
AN47	7/16-20 UNF-3A	.437	.433	7/16	.250	7/8	.378	.375	.106	31/64	1/16	23/32		3/64	9 200	7 055	3/8
AN48	1/2-20 UNF-3A	.499	.495	1/2	.313	1	.441	.438	.106	39/64	1/16	13/16	1/8	3/64	14 375	11 020	7/16
AN49	9/16-18 UNF-3A	.562	.558	19/32	.375	1-3/16	.503	.500	.111	21/32	5/64	15/16		1/6	20 125	15 430	1/2

(a) REFERENCE DIMENSIONS ARE FOR DESIGN PURPOSES ONLY AND ARE NOT AN INSPECTION REQUIREMENT.

(b) GRIP LENGTH OF BOLTS SHALL BE MEASURED FROM THE UNDERSIDE OF THE HEAD TO THE END OF THE FULL CYLINDRICAL PORTION OF THE SHANK. COMPLETE THREADS SHALL BEGIN WITHIN TWO THREAD PITCH MAXIMUM. TWO THREAD PITCH MAXIMUM MAY CONSIST OF INCOMPLETE THREAD OR EXTRUSION ANGLE.

(c) BOLTS WITH BASIC PART NUMBERS AN42 AND AN43 INACTIVE FOR DESIGN AFTER 4 APRIL 1955. IN LIEU THEREOF, USE BOLTS WITH BASIC PART NUMBERS AN42B AND AN43B.

FOR DEFINITION AND APPLICATION OF DRAWING STATUS NOTES, SEE ANA BULLETIN NO. 337.

MATERIAL: NON-CORROSION-RESISTANT STEEL OR CORROSION-RESISTANT STEEL. SEE PROCUREMENT SPECIFICATION.

FINISH: SEE PROCUREMENT SPECIFICATION.

ADD A AFTER DASH NUMBER FOR BOLT WITHOUT DRILLED HOLE IN SHANK.

ADD C BEFORE DASH NUMBER FOR CORROSION-RESISTANT STEEL BOLT.

- EXAMPLES OF PART NUMBERS:
- AN46-10 = 3/8-24 NON-CORROSION-RESISTANT STEEL EYE BOLT, 1-5/64 LONG HAVING 7/16 GRIP AND WITH DRILLED HOLE IN SHANK.
 - AN46-10A = 3/8-24 NON-CORROSION-RESISTANT STEEL EYE BOLT, 1-5/64 LONG HAVING 7/16 GRIP AND WITHOUT DRILLED HOLE IN SHANK.
 - AN46-C10 = 3/8-24 CORROSION-RESISTANT STEEL EYE BOLT, 1-5/64 LONG HAVING 7/16 GRIP AND WITH DRILLED HOLE IN SHANK.
 - AN46-C10A = 3/8-24 CORROSION-RESISTANT STEEL EYE BOLT, 1-5/64 LONG HAVING 7/16 GRIP AND WITHOUT DRILLED HOLE IN SHANK.
 - AN43B-C10A = 1/4-28 CORROSION-RESISTANT STEEL EYE BOLT, 1-1/32 LONG HAVING 9/16 GRIP AND WITHOUT DRILLED HOLE IN SHANK.

BOLTS SHALL BE FREE FROM ALL HANGING BURRS AND SLIVERS WHICH MIGHT BECOME DISLODGED UNDER USAGE.

COUNTERSINKING OF DRILLED HOLE IN SHANK IS OPTIONAL. PIN HOLE E SHALL NOT BE COUNTERSUNK.

DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: FRACTIONS $\pm 1/64$.

(5) FOR CHANGES SEE SHEET 1.

PROCUREMENT SPECIFICATION	AIR FORCE-NAVY AERONAUTICAL STANDARD	AN42 THRU AN49
MIL-B-6812	BOLT, EYE	SHEET 1 OF 2

SUPERSEDES FORMER AIR FORCE AND NAVY STANDARD ISSUES OF AN42 THROUGH AN49.

APPROVED 15 Jan 13 REVISED 3 4 Apr 55 4 10 Jun 66 5 23 Feb 67 6 4 Aug 82

AMO 9-2

Table with columns for DASH NO., ANL2B, ANL3, ANL4, ANL5, ANL6, ANL7, ANL8, ANL9. Each column contains dimensions for GRIP, LENGTH +1/32, and LENGTH -1/64. Includes multiple rows of specifications.

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APPROVED 15 JAN 43 REVISED 3 11 APR 55 FOR CHANGES SEE SHEET 1. 6 4 AUG 82

PROCUREMENT SPECIFICATION MIL-9-6812

AIR FORCE-NAVY AERONAUTICAL STANDARD

BOLT, EYE

AN42 THRU AN49 SHEET 2 of 2