



BASIC PART NO.	THREAD T	A DIA		B RAD	C .005	D DIA		E DIA	F DIA	(a) H REF	J	K	L	M	RATED STRENGTH, POUNDS		(a) PIN DIA REF
		MAX	MIN			MIN	MAX								TENSILE STRENGTH OF EYE	YIELD STRENGTH OF EYE	
AN42	1/2-20 UNF-3A	.389	.385	7/32	.078	7/16	.189	.288	.078	2.64	1/32	13/32	1/16	2/32	2 250	800	3/16
AN43	1/4-28 UNF-3A	.249	.246	1/8	.125	1/2	.127	.200	.065	5/64	1/32	15/32	5/64	1/64	2 250	1 000	3/16
AN44	5/16-24 UNF-3A	.312	.309	5/16	.188	5/8	.253	.250	.082	2/64	1/32	17/32	3/64	3/64	3 300	3 000	1/4
AN45	5/16-24 UNF-3A	.312	.309	11/32	.188	11/16	.316	.313	.078	2/64	3/64	19/32	3/32	3/64	5 250	4 055	5/16
AN46	3/8-24 UNF-3A	.378	.371	3/8	.271	3/4	.378	.375	.067	7/16	1/32	19/32	1/32	3/64	7 085	5 375	3/8
AN47	1/2-20 UNF-3A	.437	.433	7/16	.250	7/8	.378	.375	.065	11/64	1/16	23/32	1/8	3/64	9 200	7 055	3/8
AN48	1/2-20 UNF-3A	.437	.435	1/2	.313	1	.441	.438	.065	1/64	1/16	13/16	1/8	3/64	14 375	11 080	7/16
AN49	9/16-18 UNF-3A	.562	.558	19/32	.375	1-1/16	.503	.500	.112	1/8	5/64	15/16	1/8	1/64	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 EXTENSION 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 DRASSING STATUS NOTES, SEE AIA 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, 1-5/16 LONG HAVING 7/16 GRIP AND WITH DRILLED HOLE IN SHANK.
 AN46-10A - 3/8-24 NON-CORROSION-RESISTANT STEEL EYE BOLT, 1-5/16 LONG HAVING 7/16 GRIP AND WITHOUT DRILLED HOLE IN SHANK.
 AN46-C10 - 3/8-24 CORROSION-RESISTANT STEEL EYE BOLT, 1-5/16 LONG HAVING 7/16 GRIP AND WITH DRILLED HOLE IN SHANK.
 AN46-C10A - 3/8-24 CORROSION-RESISTANT STEEL EYE BOLT, 1-5/16 LONG HAVING 7/16 GRIP AND WITHOUT DRILLED HOLE IN SHANK.
 AN49-C10A - 1/2-20 CORROSION-RESISTANT STEEL EYE BOLT, 1-1/2 LONG HAVING 9/16 GRIP AND WITHOUT DRILLED HOLE IN SHANK.

BOLTS SHALL BE FREE FROM ALL MARKING DEVICES AND SLIVERS WHICH MIGHT BROODEN DRILLED UNDER USAGE.
 COUNTERSINKING OF DRILLED HOLE IN SHANK IS OPTIONAL. PIN HOLE K SHALL NOT BE COUNTERSUNK.
 DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: FRACTIONS 3/64.

(5) FOR CHANGES SEE SHEET 1.

NOTE: This drawing was approved by Joint Chiefs of Staff, Air Force and Navy Departments on the Air Force-Navy Standard Form 100-100. This drawing represents all minimum required drawings for the most perfect and safe design for its procurement of unclassified supplies or for use in any design, but later than 5 months after the latest date of approval thereon.

PROCUREMENT SPECIFICATION MIL-D-6612	AIR FORCE-NAVY AERONAUTICAL STANDARD	
	BOLT, EYE	AN42 THRU AN49

SHEET 1 OF 2

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

APPROVED 15 Jun 53 REVISED 3 Apr 54 30 Jun 66 23 Feb 67 4 AUG 82

