

FED. SUPPLY CLASS

5306

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 EXCEED .025 IN DEPTH.

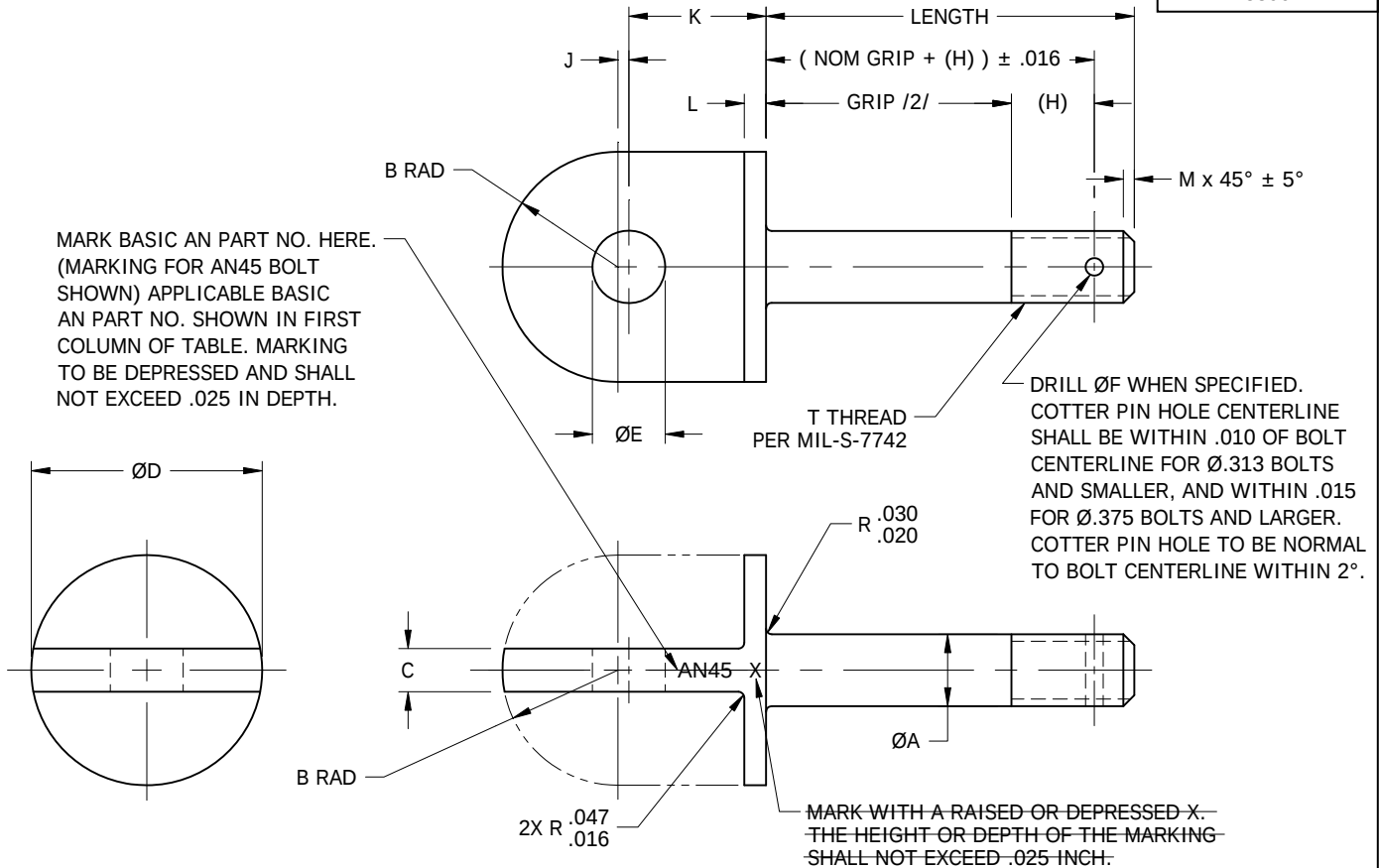


TABLE I – DIMENSIONS AND STRENGTH VALUES

BASIC AN PART NO.	T THREAD	ØA		B RAD	C ±.005	ØD	ØE		ØF ±.010	(H) /1/	J	K	L	M	RATED STRENGTH, LBF		(PIN DIA) /1/
		MAX	MIN				MAX	MIN							TENSILE STRENGTH OF EYE	YIELD STRENGTH OF EYE	
AN42	.1900-32 UNF-3A	.189	.186	.219	.094	.438	.191	.188	.070	.266	.031	.406	.063	.031	1,150	880	.188
AN43	.2500-28 UNF-3A	.249	.246	.250	.125	.500	.191	.188	.076	.313	.031	.469	.078	.031	2,450	1,880	.188
AN44	.3125-24 UNF-3A	.312	.309	.313		.625	.253	.250	.076	.359		.531			3,910	3,000	.250
AN45	.3125-24 UNF-3A	.312	.309	.344	.188	.688	.316	.313	.076	.359	.047	.594	.094	.047	5,290	4,055	.313
AN46	.3750-24 UNF-3A	.374	.371	.375		.750	.378	.375	.106	.438		.594			7,015	5,375	.375
AN47	.4375-20 UNF-3A	.437	.433	.438	.250	.875	.378	.375	.106	.484	.063	.719		.047	9,200	7,055	.375
AN48	.5000-20 UNF-3A	.499	.495	.500	.313	1.000	.441	.438	.106	.609	.063	.813	.125	.047	14,375	11,020	.438
AN49	.5625-18 UNF-3A	.562	.558	.594	.375	1.188	.503	.500	.141	.656	.078	.938		.063	20,125	15,430	.500

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES AN42 THRU AN49, REVISION 6. PART NUMBERS REMAIN AN42 THRU AN49.

THIRD ANGLE PROJECTION	
PROCUREMENT SPECIFICATION	
NASM6812	

CUSTODIAN	
NATIONAL AEROSPACE STANDARDS COMMITTEE	
TITLE	
BOLT, EYE	

REVISION	
2	
CLASSIFICATION PART STANDARD	
NASM6812	
SHEET 1 OF 3	

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

FINISH: SEE PROCUREMENT SPECIFICATION.

CODE: ADD "A" AFTER DASH NUMBER FOR BOLT WITHOUT DRILLED HOLE IN SHANK.
ADD "C" BEFORE DASH NUMBER FOR CORROSION-RESISTANT STEEL BOLT.

EXAMPLE OF PART NUMBER:

AN46-10 = .3750-24 NON-CORROSION-RESISTANT STEEL EYE BOLT, 1.078 LONG HAVING .438 GRIP AND WITH DRILLED HOLE IN SHANK.
AN46-10A = .3750-24 NON-CORROSION-RESISTANT STEEL EYE BOLT, 1.078 LONG HAVING .438 GRIP AND WITHOUT DRILLED HOLE IN SHANK.
AN46-C10 = .3750-24 CORROSION-RESISTANT STEEL EYE BOLT, 1.078 LONG HAVING .438 GRIP AND WITH DRILLED HOLE IN SHANK.
AN46-C10A = .3750-24 CORROSION-RESISTANT STEEL EYE BOLT, 1.078 LONG HAVING .438 GRIP AND WITHOUT DRILLED HOLE IN SHANK.
AN43B-C10A = .2500-28 CORROSION-RESISTANT STEEL EYE BOLT, 1.031 LONG HAVING .563 GRIP AND WITHOUT DRILLED HOLE IN SHANK.

NOTES:

- /1/ REFERENCE DIMENSIONS ARE FOR DESIGN PURPOSES ONLY AND ARE NOT AN INSPECTION REQUIREMENT.
- /2/ 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.
- /3/ BOLTS WITH BASIC PART NUMBERS AN42 AND AN43 ARE INACTIVE FOR DESIGN AFTER 4 APRIL 1955. IN LIEU THEREOF, USE BOLTS WITH BASIC PART NUMBERS AN42B AND AN43B.
- (4) ~~FOR DEFINITION AND APPLICATION OF DRAWING STATUS NOTE, SEE ANA BULLETIN NO. 337.~~
FOR DESCRIPTION OF STATUS NOTES SEE NAS380.
- (5) BOLTS SHALL BE FREE FROM ALL HANGING BURRS AND SLIVERS WHICH MIGHT BECOME DISLODGED UNDER USAGE.
- (6) COUNTERSINKING OF DRILLED HOLE IN SHANK IS OPTIONAL. PIN HOLE ØE SHALL NOT BE COUNTERSUNK.
- (7) DIMENSIONS IN INCHES AND APPLY AFTER PLATING.
- (2) (8) TOLERANCES UNLESS OTHERWISE SPECIFIED: DECIMALS ± .016.
- (9) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (2) (10) UNLESS OTHERWISE SPECIFIED HEREIN, REFERENCED DOCUMENTS SHALL BE THE ISSUE IN EFFECT ON DATE OF MANUFACTURE. HOWEVER, EXISTING MATERIAL INVENTORY CERTIFIED TO A PREVIOUS REVISION OF THE APPLICABLE MATERIAL SPECIFICATION(S) IS ACCEPTABLE FOR USE UNTIL DEPLETION.
- (11) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- (12) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.

REVISION
2
NAS42-49 PART 1A-M49 SHEET 2

