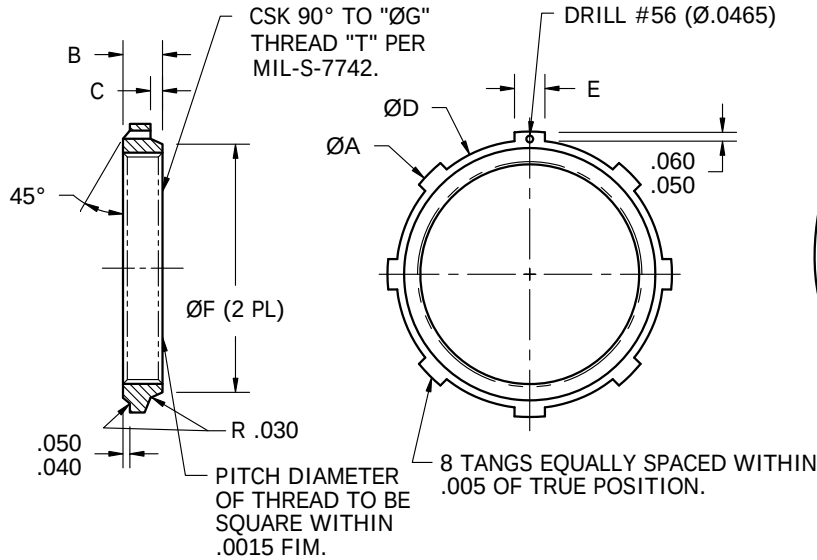


FED. SUPPLY CLASS

3120



TYPICAL INSTALLATION VIEW

TABLE I - DIMENSIONS

BASIC PART NO.	T THREAD	ØA +.005 -.015	B +.005 -.000	C +.005 -.000	ØD +.010 -.000	E +.010 -.000	ØF +.000 -.005	ØG +.000 -.005
NAS1493-1	.391-32 UNS-3B	.719	.188	.100	.594	.125	.512	.401
NAS1493-2	.469-32 UNS-3B	.812	.188	.100	.688	.125	.606	.479
NAS1493-3	.586-32 UNS-3B	.938	.219	.100	.812	.125	.730	.596
NAS1493-4	.664-32 UNS-3B	1.062	.219	.100	.938	.125	.856	.674
NAS1493-5	.781-32 UNS-3B	1.188	.250	.100	1.062	.188	.980	.791
NAS1493-6	.969-32 UNS-3B	1.375	.250	.100	1.250	.188	1.168	.979
NAS1493-7	1.173-18 UNS-3B	1.688	.281	.100	1.500	.188	1.418	1.183
NAS1493-8	1.376-18 UNS-3B	1.906	.281	.100	1.719	.188	1.637	1.386
NAS1493-9	1.563-18 UNS-3B	2.094	.281	.100	1.906	.250	1.824	1.573
NAS1493-10	1.767-18 UNS-3B	2.312	.312	.100	2.125	.250	2.043	1.777
NAS1493-11	1.967-18 UNS-3B	2.500	.312	.100	2.312	.250	2.230	1.977
NAS1493-12	2.157-18 UNS-3B	2.750	.312	.100	2.562	.250	2.480	2.167
NAS1493-13	2.360-18 UNS-3B	2.938	.344	.100	2.750	.250	2.668	2.370
NAS1493-14	2.548-18 UNS-3B	3.125	.344	.100	2.938	.250	2.856	2.558
NAS1493-15	2.751-18 UNS-3B	3.344	.344	.100	3.156	.250	3.074	2.761
NAS1493-16	2.933-12 UNS-3B	3.688	.375	.100	3.438	.375	3.356	2.943
NAS1493-17	3.137-12 UNS-3B	3.906	.375	.100	3.656	.375	3.574	3.147
NAS1493-18	3.340-12 UNS-3B	4.125	.375	.100	3.875	.375	3.793	3.350
NAS1493-19	3.527-12 UNS-3B	4.312	.375	.100	4.062	.375	3.980	3.537
NAS1493-20	3.730-12 UNS-3B	4.531	.406	.100	4.281	.375	4.199	3.740
NAS1493-21	3.918-12 UNS-3B	4.719	.406	.100	4.469	.375	4.387	3.928
NAS1493-22	4.122-12 UNS-3B	4.906	.406	.100	4.656	.500	4.574	4.132
NAS1493-23	4.325-12 UNS-3B	5.125	.406	.100	4.875	.500	4.793	4.335

⑦ COMPLETELY REVISED

THIRD ANGLE PROJECTION	
PROCUREMENT SPECIFICATION	NONE

CUSTODIAN	NATIONAL AEROSPACE STANDARDS COMMITTEE
TITLE	LOCKNUT, BEARING RETAINING

REVISION	7
CLASSIFICATION PART STANDARD	NAS1493
SHEET 1 OF 3	

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC.
1000 WILSON BLVD.
ARLINGTON, VA 22209

THIS DRAWING SUPERSEDES ALL ANTECEDENT STANDARD DRAWINGS FOR THE SAME
PRODUCT AND SHALL BECOME EFFECTIVE NO LATER THAN SIX MONTHS FROM THE LAST
REVISION DATE.

FORM 09-01

REVISION DATE: DECEMBER 22, 2011

ISSUE DATE: MARCH 1961

MATERIAL:

STEEL: 4130 (UNS G41300) PER ~~MIL-S-6758~~ AMS-S-6758 CONDITION D, AMS6361, OR AMS-T-6736, TYPE I, SEAMLESS.

FINISH:

BLACK OXIDE: DULITE OR EQUIVALENT PER MIL-DTL-13924, CLASS 1, GRADE C.
CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2.

HEAT TREATMENT:

BEFORE FINAL MACHINING, HEAT TREAT TO 125 KSI TO 26-33 HRC PER AMS2759.

CODE:

DASH NUMBER DESIGNATES LOCKNUT SERIES AS NOTED IN TABLE I.
ADD "A" AFTER DASH NUMBER TO DESIGNATE DRILLED TANG FOR LOCK WIRE.
ADD "F" AFTER DASH NUMBER TO DESIGNATE BLACK OXIDE FINISH.
NO LETTER DENOTES CADMIUM PLATE.

EXAMPLES OF PART NUMBER:

NAS1493-10 = LOCKNUT WITH A 1.767-18 THREAD, CADMIUM PLATED
NAS1493-10A = LOCKNUT WITH A 1.767-18 THREAD AND DRILLED TANG FOR LOCK WIRE, CADMIUM PLATED
NAS1493-10F = LOCKNUT WITH A 1.767-18 THREAD WITH BLACK OXIDE FINISH
NAS1493-10AF = LOCKNUT WITH A 1.767-18 THREAD AND DRILLED TANG FOR LOCKWIRE WITH BLACK OXIDE FINISH

NOTES:

- (1) THIS LOCKNUT IS INTENDED FOR USE WITH THE NAS1443 LOCKWASHER AND FOR POSITIVE TORSIONAL LOCK BETWEEN SHAFT AND BEARING LOCK NUT FOR POSITIVE BEARING RETENTION WHERE VIBRATION IS A FACTOR AND PRECISE TORQUE SETTING MUST BE HELD.
- (2) REMOVE ALL BURRS AND BREAK SHARP EDGES .005 TO .015R UNLESS OTHERWISE NOTED.
- (3) SURFACE ROUGHNESS: MACHINED SURFACES: 125 MICROINCHES Ra PER ASME B46.1. MACHINED FILLET RADII SHALL NOT EXCEED THAT TEXTURE SPECIFIED FOR THE SMOOTHEST ADJACENT SURFACE.
- (4) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (5) TOLERANCES UNLESS OTHERWISE SPECIFIED: DECIMALS $\pm .010$, ANGLES $\pm 1/2^\circ$.
- (6) THREAD: SAE STANDARD FOR BALL AND ROLLER BEARING LOCKNUTS.
- (7) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.

⑦ COMPLETELY REVISED

REVISION

7

NAS1493
SHEET 2



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