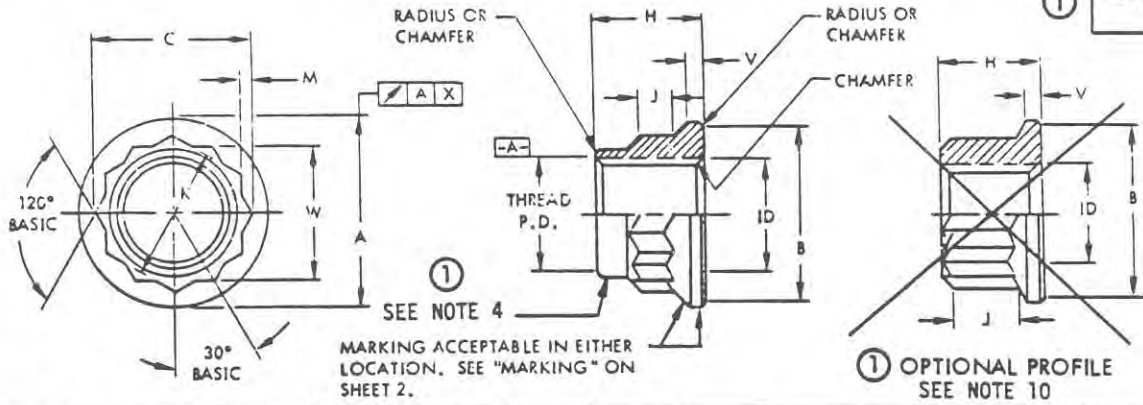


# NATIONAL AEROSPACE STANDARD

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC. 1725 DE SALES STREET, N.W., WASHINGTON, D.C. 20036

FED. SUP CLASS  
5310



AIA AND ITS COMMITTEES WILL NOT INVESTIGATE THE APPLICABILITY OF PATENTS TO THE SUBJECT MATTER OF NAS STANDARDS AND IN RESPECT THEREOF DO NOT ASSUME ANY LIABILITY TO PATENT OWNERS OR TO PROSPECTIVE USERS

SIZE NO	THREAD NOTE 1	A DIA MAX	B DIA MIN	C MIN NOTE 3	H MAX ①	ID		J MIN	K MAX NOTE 3	M MIN	W NOTE 3	
						MAX	MIN				MAX	MIN
3	.1900-32 UNJF-3B	.339	.299	.277	.190	.220	.190	.065	.262	.013	.251	.243
4	.2500-28 UNJF-3B	.434	.394	.347	.250	.280	.250	.082	.327	.017	.313	.305
5	.3125-24 UNJF-3B	.532	.492	.418	.312	.342	.312	.120	.392	.021	.376	.367
6	.3750-24 UNJF-3B	.631	.591	.490	.375	.405	.375	.129	.458	.026	.439	.430
7	.4375-20 UNJF-3B	.729	.689	.631	.438	.473	.438	.156	.588	.034	.564	.553
8	.5000-20 UNJF-3B	.828	.788	.703	.500	.535	.500	.190	.654	.038	.627	.616
9	.5625-18 UNJF-3B	.926	.886	.775	.562	.597	.562	.230	.720	.042	.690	.679
10	.6250-18 UNJF-3B	1.024	.984	.846	.625	.660	.625	.250	.784	.047	.752	.741
12	.7500-16 UNJF-3B	1.221	1.181	1.059	.750	.785	.750	.310	.980	.060	.940	.928
14	.8750-14 UNJF-3B	1.418	1.378	1.200	.875	.910	.875	.350	1.110	.068	1.064	1.052
16	1.0000-12 UNJF-3B	1.625	1.575	1.344	1.000	1.035	1.000	.400	1.241	.077	1.190	1.177
18	1.1250-12 UNJF-3B	1.822	1.772	1.557	1.125	1.160	1.125	.450	1.436	.090	1.377	1.364
20	1.2500-12 UNJF-3B	2.019	1.969	1.699	1.250	1.285	1.250	.500	1.565	.098	1.502	1.489
22	1.3750-12 UNJF-3B	2.216	2.166	1.842	1.375	1.410	1.375	.550	1.695	.107	1.627	1.614
24	1.5000-12 UNJF-3B	2.412	2.362	1.986	1.500	1.535	1.500	.600	1.825	.117	1.752	1.739
28	1.7500-12 UNJF-3B	2.820	2.770	2.332	1.750	1.785	1.750	.750	2.150	.138	2.064	2.050
32	2.0000-12 UNJF-3B	3.200	3.150	2.687	2.000	2.040	2.000	.900	2.474	.155	2.377	2.363

THREAD	V REF	X	MAXIMUM WEIGHT LBS/100
.1900-32 UNJF-3B	.015	.006	.21
.2500-28 UNJF-3B	.020	.006	.42
.3125-24 UNJF-3B	.035	.006	.71
.3750-24 UNJF-3B	.056	.010	1.27
.4375-20 UNJF-3B	.069	.010	2.14
.5000-20 UNJF-3B	.074	.010	3.04
.5625-18 UNJF-3B	.079	.010	4.13
.6250-18 UNJF-3B	.084	.010	5.41
.7500-16 UNJF-3B	.094	.010	10.20
.8750-14 UNJF-3B	.109	.015	15.20
1.0000-12 UNJF-3B	.122	.015	21.90
1.1250-12 UNJF-3B	.150	.015	32.30
1.2500-12 UNJF-3B	.170	.015	42.30
1.3750-12 UNJF-3B	.220	.015	55.30
1.5000-12 UNJF-3B	.260	.015	70.40
1.7500-12 UNJF-3B	.300	.015	113.00
2.0000-12 UNJF-3B	.350	.015	169.00

LIST OF CURRENT SHEETS

NO.	REV.
1	1
2	1
3	NEW

CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE



PROCUREMENT SPECIFICATION NOTED

① TITLE  
NUT, SELF-LOCKING, EXTENDED WASHER,  
DOUBLE HEXAGON, CRES, 180KSI, 450°F and 800°F

STANDARD PART  
**NAS1805** ①  
SHEET 1 OF 3

# NATIONAL AEROSPACE STANDARD

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC., 1725 DE SALES STREET, N. W., WASHINGTON, D. C. 20036

**MATERIAL:** A286 CRES PER AMS 5737. INCO 718 PER AMS 5662 OPTIONAL FOR NUT SIZE 0.7500-16 AND LARGER.

**FINISH:** NO CODE LETTER - PASSIVATE PER QQ-P-35.

CODE LETTER L - CADMIUM PLATE PER QQ-P-416, CLASS 2. TYPE OF PLATING OPTIONAL IF NUTS MEET SALT SPRAY REQUIREMENTS OF QQ-P-416, TYPE II.

CODE LETTER N - CADMIUM PLATE PER QQ-P-416, TYPE II, CLASS 2. EMBRITTLEMENT TEST DOES NOT APPLY.

CODE LETTER P - SILVER PLATE PER AMS 2410, 0.0002 MINIMUM THICKNESS ON SURFACES WHICH CAN BE TOUCHED WITH A 0.75 INCH DIAMETER BALL. THREADS SHALL SHOW COMPLETE COVERAGE BUT THICKNESS REQUIREMENT IS WAIVED.

**LUBRICANT:** NO CODE LETTER - DRY FILM LUBRICANT PER MIL-L-8937 AND HYDRAULIC FLUID RESISTANCE WHEN TESTED PER METHOD 7001 OF FEDERAL TEST METHOD STD. NO. 791 USING MIL-H-83306 OR SAE AS1241 PHOSPHATE ESTER HYDRAULIC FLUID.

CODE LETTER L - DRY FILM LUBRICANT MEETING THE REQUIREMENTS OF NAS3350 AND HYDRAULIC FLUID RESISTANCE WHEN TESTED PER METHOD 7001 OF FEDERAL TEST METHOD STD. NO. 791 USING MIL-H-83306 OR SAE AS1241 PHOSPHATE ESTER HYDRAULIC FLUID.

CODE LETTER N - CETYL ALCOHOL (NON-DRY FILM LUBRICANT) PER MIL-L-87132, TYPE I, GRADE A. ~~SEE NOTE 9.~~

CODE LETTER P - NO LUBRICANT.

**CODE:** BASIC PART NUMBER = UNPLATED, PASSIVATED NUT WITH DRY FILM LUBRICANT. ADD "N" AFTER DASH NUMBER FOR CADMIUM PLATED NUT, WITH CETYL ALCOHOL LUBRICANT. ADD "P" AFTER DASH NUMBER FOR SILVER PLATED NUT WITH NO LUBRICANT. ADD "L" AFTER DASH NUMBER FOR CADMIUM PLATED NUT WITH DRY FILM LUBRICANT.

**MARKING:** MANUFACTURER'S SYMBOL PLUS NAS PART NUMBER. FOR -3 SIZE, ONLY MANUFACTURER'S SYMBOL IS REQUIRED. LOCATION AS NOTED ON SHEET 1. IN ADDITION, CADMIUM PLATED, DRY FILM LUBRICATED NUTS (CODE LETTER L) SHALL BE IDENTIFIED WITH A SPOT, DAB OR PATCH OF WHITE PAINT, DYE OR LACQUER.

**EXAMPLE OF PART NUMBER:** NAS 1805-4 = NUT, 0.2500-28 UNJF-3B THREAD, PASSIVATED, DRY FILM LUBRICANT.

NAS 1805-4N = NUT, 0.2500-28 UNJF-3B THREAD, CADMIUM PLATED, CETYL ALCOHOL LUBRICANT.

NAS 1805-4P = NUT, 0.2500-28 UNJF-3B THREAD, SILVER PLATED, NO LUBRICANT.

NAS 1805-4L = NUT, 0.2500-28 UNJF-3B THREAD, CADMIUM PLATED, DRY FILM LUBRICANT.

① COMPLETELY REVISED

NAS 1805

SHEET 2

AIA AND ITS COMMITTEES WILL NOT INVESTIGATE THE APPLICABILITY OF AIA STANDARDS TO PRODUCTS WHICH DO NOT MEET THE REQUIREMENTS OF AIA STANDARDS AND IN RESPECT THEREOF DO NOT ASSUME ANY LIABILITY TO PATENT OWNERS OR TO PROSPECTIVE USERS

THIS DRAWING SUPERSEDES ALL ANTECEDENT STANDARD DRAWINGS FOR THE PRODUCT AND SHALL BECOME EFFECTIVE NO LATER THAN SIX MONTHS FROM THE LAST DATE OF APPROVAL SHOWN HEREON

APPROVAL DATE MAY 1978 REVISION ① 1 Nov. 1982



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# NATIONAL AEROSPACE STANDARD

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC., 1725 DE SALES STREET, N. W. WASHINGTON, D. C. 20036

- NOTES:
1. THREADS PER MIL-S-8879 BEFORE LUBRICATION.
  2. INTERPRETATION OF DIMENSIONING AND TOLERANCING PER ANSI Y14.5.
  3. DIMENSIONS "C", "K" AND "W" APPLY PRIOR TO DEFORMATION OF SELF-LOCKING DEVICE.
  4. UPPER THREADED PORTION, ABOVE WRENCHING FEATURE, DEFORMED TO PROVIDE SELF-LOCKING ACTION. DEFORMATION SHALL PERMIT FREE ENGAGEMENT WITH WRENCHES CONFORMING TO GGG-W-636. TOOL MARKS PERMISSIBLE IN LOCKING AREA.
  5. DIMENSIONS IN INCHES.
  6. THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
  7. REFERENCED DOCUMENTS SHALL BE THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.
  8. MAGNETIC PERMEABILITY SHALL BE LESS THAN 2.0 (AIR = 1.0) FOR A FIELD STRENGTH H = 200 OERSTEDS USING MAGNETIC PERMEABILITY INDICATOR PER MIL-I-17214 OR EQUIVALENT.
  - ~~9. THOROUGHLY MIX 1.15 TO 1.5 LBS OF CETYL ALCOHOL PER GALLON OF TYPE 325 (STANDARD OIL CO.) SOLVENT OR EQUIVALENT. SOLUTION MAY BE HEATED TO 130°F TO AID IN MIXING. NUTS ARE TO BE IMMERSED IN THE SOLUTION FOR 2 MINUTES MINIMUM, REMOVED, AND DRIED BEFORE PACKAGING.~~
  10. OPTIONAL PROFILE INACTIVE. EXISTING STOCK OF OPTIONAL PROFILE NUTS MAY BE FURNISHED UNTIL 1 November 1984. FOR DESCRIPTION OF STATUS NOTES SEE NAS 380.

PROCUREMENT SPECIFICATION: NAS3350, CLASS IIIA.

AIA AND ITS COMMITTEES WILL NOT INVESTIGATE THE APPLICABILITY OF PATENTS OR THE SUBJECT MATTER OF THIS STANDARD IN ORDER TO DETERMINE ANY LIABILITY TO PATENT OWNERS OR TO PROSPECTIVE USERS

THIS DRAWING SUPERSEDES ALL ANTECEDENT STANDARD DRAWINGS FOR THE SAME PRODUCT AND SHALL BECOME EFFECTIVE NO LATER THAN SIX MONTHS FROM THE LAST DATE OF APPROVAL SHOWN HEREON

NAS 1805

SHEET 3



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