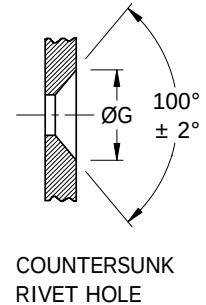
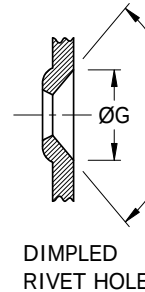
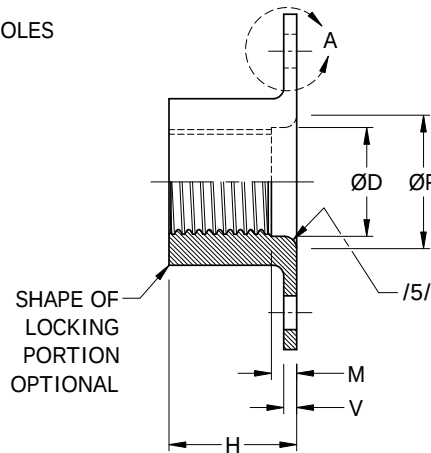
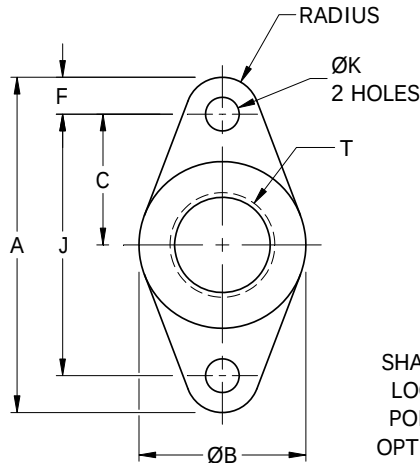


CONFIGURATION OF NUT OPTIONAL WITHIN
THE LIMITATIONS IMPOSED BY DIMENSIONS
AND THE REQUIREMENTS AS SPECIFIED HEREIN.

FED.SUPPLY CLASS

5310



VIEW A

TABLE I – DIMENSIONS AND STRENGTH VALUES

DASH NUMBERS				T THREAD SIZES	A	ØB		C ±.005	ØD	F	ØG ±.010	H /7/	J /8/ ±.002	ØK /9/ +.005 −.000	M	ØP	V	AXIAL STRENGTH LBF MIN	WEIGHT LBS/100	
PLAIN RIVET HOLES		COUNTERSUNK OR DIMPLED RIVET HOLES																		
NON-DRY FILM LUBRICANT	DRY FILM LUBRICANT	NON-DRY FILM LUBRICANT	DRY FILM LUBRICANT			MAX	MAX													MIN
-04	L04	-04K	L04K	.1120-40 UNJC-3B	.948	.260	.195	.344	—	.100	.200	.143	.688	.098	--	.166	.047	750	.14	
-06	L06	-06K	L06K	.1380-32 UNJC-3B	.948	.265	.239	.344	—	.100	.200	.171	.688	.098	--	.206	.047	1,130	.18	
-08	L08	-08K	L08K	.1640-32 UNJC-3B	.948	.297	.277	.344	.168	.100	.200	.250	.688	.098	.062	.248	.047	1,720	.28	
-3	L3	-3K	L3K	.1900-32 UNJF-3B	.948	.328	.308	.344	.194	.100	.200	.250	.688	.098	.062	.274	.047	2,460	.29	
-4	L4	-4K	L4K	.2500-28 UNJF-3B	1.260	.414	.375	.500	.254	.100	.200	.281	1.000	.098	.062	.344	.055	4,580	.53	
-5	L5	-5K	L5K	.3125-24 UNJF-3B	1.292	.505	.485	.500	.317	.125	.230	.328	1.000	.130	.062	.417	.065	7,390	.80	
-6	L6	—	—	.3750-24 UNJF-3B	1.292	.614	.594	.500	.379	.125	.230	.344	1.000	.130	.062	.505	.075	11,450	1.31	
-7	L7	—	—	.4375-20 UNJF-3B	1.477	.726	.695	.562	.442	.156	.230	.390	1.125	.161	.062	.602	.085	15,450	1.84	
-8	L8	—	—	.5000-20 UNJF-3B	1.602	.859	.796	.625	.521	.156	.230	.609	1.250	.161	.062	.640	.115	21,110	4.80	
-9	L9	—	—	.5625-18 UNJF-3B	1.727	.953	.902	.688	.584	.156	.230	.656	1.375	.161	.062	.703	.115	26,810	7.70	
-10	L10	—	—	.6250-18 UNJF-3B	1.852	1.016	.964	.750	.646	.156	.230	.765	1.500	.161	.062	.756	.115	34,130	8.60	

MATERIAL:

CARBON STEEL - 1035 (UNS G10350), 1040 (UNS G10400), AND 1050 (UNS G10500), IN ACCORDANCE WITH ASTM A 827/A 827M OR AMS-QQ-S-700.
- 1042 (UNS G10420) IN ACCORDANCE WITH ASTM A 29/A 29M.
ALLOY STEEL - GRADES 4130 (UNS G41300), 4340 (UNS G43400) AND 8740 (UNS G87400) IN ACCORDANCE WITH ASTM A 29/A 29M,
- PFE-PL43S CONFORMING TO CHEMISTRY OF EN2543.

HARDNESS: 49 HRC MAX.

③ COMPLETELY REVISED

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS21047, REVISION F. PART NUMBERS REMAIN MS21047.

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 3
PROCUREMENT SPECIFICATION NASM25027	TITLE NUT, SELF-LOCKING, PLATE, TWO-LUG, LOW HEIGHT, STEEL, 125 KSI Ft_u, 450 °F	CLASSIFICATION PART STANDARD NASM21047

- FINISH:** CADMIUM PLATE IN ACCORDANCE WITH AMS-QQ-P-416 TYPE II, CLASS 2. FOR DRY FILM LUBRICATED NUTS, THE TYPE AND CLASS ARE OPTIONAL IF THE NUTS MEET THE SALT SPRAY REQUIREMENT OF AMS-QQ-P-416, TYPE II.
- LUBRICANT:** DRY FILM LUBRICANT APPROVED IN ACCORDANCE WITH NASM25027. NON-DRY FILM LUBRICANTS SHALL BE SOLUBLE IN THE CLEANER SPECIFIED IN AMS-S-8802.
- CODE:** THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE I.

MS21047 L4K

 DASH NUMBER
 BASIC MS NUMBER

EXAMPLE OF PART NUMBER:

MS21047L4K = NUT, SELF-LOCKING, PLATE, TWO LUG, LOW HEIGHT, STEEL, 125 KSI F_{tu}, 450 °F;
 .2500-28 UNJF-3B; DRY FILM LUBRICANT COUNTERSUNK OR DIMPLED HOLES.

NOTES:

- (1) DIMENSIONS ARE IN INCHES AND APPLY AFTER FINISH AND PRIOR TO THE APPLICATION OF LUBRICATION UNLESS OTHERWISE SPECIFIED.
- (2) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (3) 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.
- (4) DESIGN AND USAGE LIMITATIONS: THESE NUTS ARE DESIGNED TO DEVELOP THE TENSILE STRENGTH OF BOLTS AND SCREWS WITH AN ULTIMATE TENSILE STRENGTH OF 125 KSI BASED ON THE CROSS SECTION AREA AT THE BASIC ROOT DIAMETER OF THE THREADS. THESE NUTS ARE DESIGNED TO BE USED ON 3A EXTERNAL THREADS. THESE NUTS SHALL BE USED IN ACCORDANCE WITH THE LIMITATIONS OF NASM33588. ~~ONLY NUTS FOR WHICH THERE ARE QUALIFIED PRODUCTS LISTED ON QPL 25027 SHALL BE USED.~~
- /5/ SHAPE OF CORNER OPTIONAL. MAY BE SQUARE, ROUND, OR CSK WITHIN THE LIMITS OF "ØP". /15/
- (6) NASM21047 SUPERSEDES AN362, AN366, NAS680, NAS1023 IN PART.
- /7/ MINIMUM "H" NOT SPECIFIED, LIMITED ONLY BY STRENGTH REQUIREMENTS OF SPECIFICATION.
- /8/ CENTER OF THE TAPPED HOLE SHALL NOT DEVIATE IN ANY DIRECTION FROM THE CENTER OF THE PLATE NUT AS DETERMINED BY THE RIVET HOLES BY MORE THAN .005.
- /9/ DIMPLED RIVET HOLE TOLERANCE FOR "ØK" IS +.015 - .000.
- (10) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- (11) CONFIGURATION OF NUT OPTIONAL WITHIN THE LIMITATIONS IMPOSED BY DIMENSIONS AND THE REQUIREMENTS AS SPECIFIED HEREIN.
- (12) THREADS BEFORE LUBRICATION IN ACCORDANCE WITH AS8879.
- (13) SURFACE ROUGHNESS: 125 MICROINCHES Ra PER ASME B46.1.
- (14) REMOVE ALL BURRS AND SHARP EDGES.

REVISION
3
NASM21047
SHEET 2