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

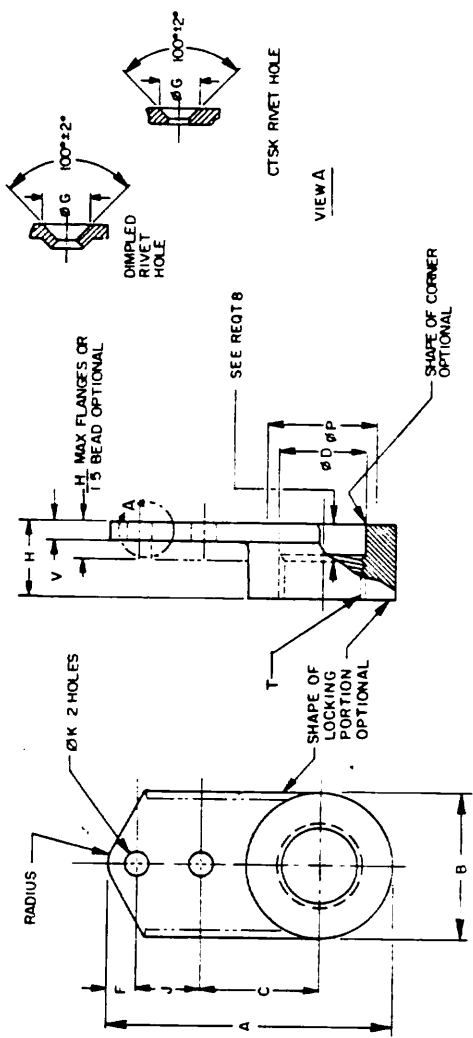


TABLE 1. DASH NUMBERS AND DIMENSIONS

PLAIN RIVET HOLES	DASH NUMBERS		T THREAD SIZES	A MAX	B		C ±.005	Ø D MIN	F MIN	Ø G ±.010	H ^{1/2} MAX	J ^{3/2} ±.002	Ø P MAX	V MAX	MIN. STRENGTH TENS/MIN	WEIGHT LBS/100	
	NON-DRY FILM LUBRICANT	DRY FILM LUBRICANT			MAX	MIN											
-02	L02	---	.086-56 UNJC-3B	.507	.164	.140	.125	---	-.071	4/	.110	.219	.066	.130	.035	440	.06
-03	L03	---	.099-48 UNJC-3B	.535	.184	.140	.133	---	-.071	5/	.125	.219	.066	.143	.035	550	.09
-04	L04	-04K	.112-40 UNJC-3B	.667	.260	.140	.203	---	-.089	.200	.143	.219	.098	.166	.040	750	.12
-06	L06	-06K	.138-32 UNJC-3B	.684	.265	.195	.218	---	-.089	.200	.171	.219	.098	.206	.047	1,130	.15
-08	L08	-08K	.164-32 UNJC-3B	.716	.297	.235	.234	.168	-.100	.200	.250	.219	.098	.248	.047	1,720	.23
-3	L3	-3K	.190-32 UNJF-3B	.745	.328	.298	.250	.194	-.100	.200	.250	.219	.098	.274	.047	2,460	.27
-4	L4	-4K	.250-28 UNJF-3B	.822	.414	.300	.281	.214	-.100	.200	.281	.219	.098	.344	.055	4,580	.46
-5	L5	-5K	.3125-24 UNJF-3B	1.026	.505	.475	.359	.317	-.125	.230	.328	.269	.130	.417	.065	7,390	.85
-6	L6	---	.375-24 UNJF-3B	1.139	.614	.580	.414	.379	-.125	.230	.344	.269	.130	.505	.075	11,450	2.04

1/ MINIMUM H^{1/2} NOT SPECIFIED. LIMITED ONLY BY STRENGTH REQUIREMENTS OF SPECIFICATION.
 2/ 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.
 3/ DIMPLED RIVET HOLES TOLERANCE FOR Ø K^{1/2} IS ±.015 -.000.
 4/ SPACES WILL NOT PERMIT COUNTERSINK.

Ⓢ ENTIRE STANDARD REVISED

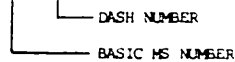
P.A. NAVY-AS Other Cust: ARMY-AV AIR FORCE-HI	INTERNATIONAL INTEREST	TITLE NUT, SELF-LOCKING, PLATE, ONE LUG, REDUCED RIVET SPACING, LOW HEIGHT, STEEL, 125KSI Fu, 450°F	MILITARY STANDARD MS 21071
PROCUREMENT SPECIFICATION MIL-N-25027	SUPERSEDES	NAS 696	PAGE 1 OF 2

APPROVED 6 APR 64 REVISED 30 SEP 87

REQUIREMENTS:

- MATERIAL:** CARBON STEEL, COMPOSITIONS 1035 (UNS G10350), 1040 (UNS G10400), AND 1050 (UNS G10500) IN ACCORDANCE WITH QQ-S-635; 1042 (UNS G10420) IN ACCORDANCE WITH ASTM A29. ALLOY STEEL, GRADES 4130 (UNS G41300), 4340 (UNS G43400) AND 8740 (UNS G87400) IN ACCORDANCE WITH ASTM A29.
- FINISH:** CADMIUM PLATE IN ACCORDANCE WITH 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 REQUIREMENTS OF QQ-P-416 TYPE II.
- DIMENSIONING AND TOLERANCING:** DIMENSIONING AND TOLERANCING SHALL BE IN ACCORDANCE WITH ANSI Y14.5M.
- HARDNESS:** 49HRC, MAX.
- THREADS:** THREADS BEFORE LUBRICATION IN ACCORDANCE WITH MIL-S-8879.
- SURFACE TEXTURE:** SURFACE TEXTURE, UNLESS OTHERWISE SPECIFIED, SHALL NOT EXCEED 125 MICRONS, IN ACCORDANCE WITH ANSI B46.1.
- LUBRICANT:** DRY FILM LUBRICANT APPROVED IN ACCORDANCE WITH MIL-N-25027. NON-DRY FILM LUBRICANTS SHALL BE SOLUBLE IN THE CLEANER SPECIFIED IN MIL-S-8802.
- COUNTERBORE/COUNTERSINK:** ON SIZE .164 AND LARGER, THREAD RELIEF SHALL BE .062 MINIMUM; ON SIZE .138 AND SMALLER, COUNTERSINK TO "P" DIAMETER.
- PART NUMBER:** THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE 1.

EXAMPLE: MS21071L4K



MS21071L4K INDICATES: NUT, SELF-LOCKING, PLATE, ONE LUG, REDUCED RIVET SPACING, LOW HEIGHT, STEEL; 125 KSI F_{tu}, 450° F; .250-28 UNF-3B; DRY FILM LUBRICANT; COUNTERSINK OR DIMPLED HOLES.

NOTES:

- ALL DIMENSIONS ARE IN INCHES.
- IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS STANDARD AND THE REFERENCES CITED HEREIN, THE TEXT OF THIS STANDARD SHALL TAKE PRECEDENCE.
- REFERENCED GOVERNMENT (OR NON-GOVERNMENT) DOCUMENTS OF THE ISSUE LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) SPECIFIED IN THE SOLICITATION FORM A PART OF THIS STANDARD TO THE EXTENT SPECIFIED HEREIN.
- 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 MS33588. ONLY NUTS FOR WHICH THERE ARE QUALIFIED PRODUCTS LISTED ON QPL 25027 SHALL BE USED.

INTERCHANGEABILITY RELATIONSHIP

MS21071 NUTS CAN UNIVERSALLY REPLACE NAS696 NUTS OF LIKE MATERIAL, THREAD SIZE, LUBRICANT (DRY FILM OR NON-DRY FILM LUBRICANT), AND FASTENING METHOD (PLAIN RIVET HOLES; DIMPLED OR COUNTERSUNK RIVET HOLES); BUT THESE NAS696 NUTS CANNOT UNIVERSALLY REPLACE MS21071 NUTS.

INTERCHANGEABILITY TABLE

CANCELLED PART NUMBERS	SUBSTITUTIVE PART NUMBERS	CANCELLED PART NUMBERS	SUBSTITUTIVE PART NUMBERS
NAS696X02	MS21071-01	NAS696X3K	MS21070-3K
NAS696A02	MS21071L01	NAS696A3K	MS21070L3K
NAS696X03	MS21071-03	NAS696X4	MS21070-4
NAS696A03	MS21071L03	NAS696A4	MS21070L4
NAS696X04L	MS21071-04	NAS696X4K	MS21070-4K
NAS696A04L	MS21071L04	NAS696A4K	MS21070L4K
NAS696X04LK	MS21071-04K	NAS696X5	MS21070-5
NAS696A04LK	MS21071L04K	NAS696A5	MS21070L5
NAS696X06L	MS21071-06	NAS696X5K	MS21070-5K
NAS696A06L	MS21071L06	NAS696A5K	MS21070L5K
NAS696X06LK	MS21071-06K	NAS696X6	MS21070-6
NAS696A06LK	MS21071L06K	NAS696A6	MS21070L6
NAS696X08	MS21071-08		
NAS696A08	MS21071L08		
NAS696X08K	MS21071-08K		
NAS696A08K	MS21071L08K		
NAS696X3	MS21071-3		
NAS696A3	MS21071L3		

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APPROVED 6 APR 64 REVISED (F) FOR CHANGES SEE PAGES 1 AND 2

P. A. NAVY-AS Other Cost ARMY-AV AIR FORCE-11	INTERNATIONAL INTEREST	TITLE NUT, SELF-LOCKING, PLATE, ONE LUG, REDUCED RIVET SPACING, LOW HEIGHT, STEEL, 125KSI F _{tu} , 450° F	MILITARY STANDARD
			MS21071
PROCUREMENT SPECIFICATION MIL-N-25027	SUPERSEDES: NAS 696		PAGE 2 OF 2