

THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE
DEPARTMENT OF DEFENSE

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION
SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODDSS SPECIFIED IN
THE SOLICITATION MIL-N-25027

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

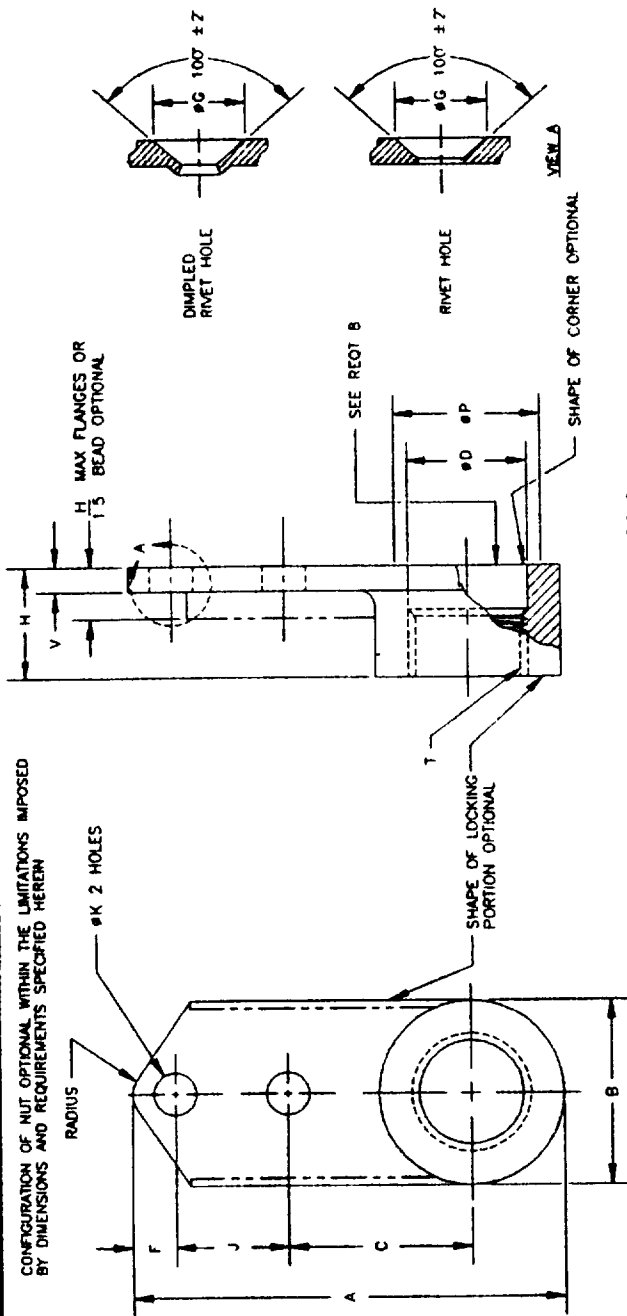


TABLE 1 DASH NUMBERS AND DIMENSIONS

DASH NUMBERS		PLAIN RIVET HOLES		COUNTERSUNK OR DIMPLED RIVET HOLES		T THREAD SIZES	A		B	C MIN ± .005	D MIN	F MIN ± .010	G MAX	H MAX	J MAX ± .002	K MAX ± .003 - .000	P MAX ± .005	V MAX	AXIAL STRENGTH LBS/MIN	WEIGHT LBS/100
		NON-DRY FILM LUBRICANT	DRY FILM LUBRICANT	NON-DRY FILM LUBRICANT	DRY FILM LUBRICANT		MAX	MIN												
-02	L02	—	—	—	—	08B-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	4/	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	715	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	2,480	27
-4	L4	—	4K	—	—	250-28 UNJF-3B	822	414	380	281	254	100	200	281	219	098	344	035	4,580	46
-5	L5	—	5K	—	—	3125-24 UNJF-3B	1 028	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" 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
3/ DIMPLED RIVET HOLE TOLERANCE FOR "AK" IS + 0.15 - 0.00
4/ SPACE WILL NOT PERMIT COUNTERSINK
5/ PLATE NUT AS DETERMINED BY THE RIVET HOLES BY MORE THAN .005

(G) DENOTES CHANGE(S)

INCH-POUND

PREPARING ACTMITY DLA-IS
CUSTODIANS ARMY-AY NAVY-AS
AIR FORCE-11 DLA-
REVIEW 82
USER CR, MI
PROJECT NUMBER 5310-1956
DISTRIBUTION STATEMENT

MILITARY SPECIFICATION SHEET
TITLE
NUT, SELF-LOCKING, PLATE, ONE LUG,
REDUCED RIVET SPACING, LOW HEIGHT
STEEL, 125 KSI F_U, 450F

SPECIFICATION SHEET NUMBER

MS21071

1 FEB 94
REV G

SUPERSEDING

MS21071 F 30 SEP 87 (SEE NOTE 5)

AMSC-

N/A

FSC 5310

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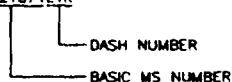
DD Form 672, MAY 88

PREVIOUS EDITIONS ARE OBSOLETE

REQUIREMENTS

- (C) 1 MATERIAL CARBON STEEL COMPOSITIONS 1035 (UNS G10350) 1040 (UNS G10400) AND 1050 (UNS G10500) IN ACCORDANCE WITH ASTM A827 OR QQ-S-700 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
- 2 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
- 3 DIMENSIONING AND TOLERANCING DIMENSIONING AND TOLERANCING SHALL BE IN ACCORDANCE WITH ANSI Y14.5M
- 4 HARDNESS 49HRC, MAX
- 5 THREADS THREADS BEFORE LUBRICATION IN ACCORDANCE WITH MIL-S-8879
- 6 SURFACE TEXTURE SURFACE TEXTURE, UNLESS OTHERWISE SPECIFIED SHALL NOT EXCEED 125 MICROMETRES, IN ACCORDANCE WITH ANSI/ASME B46.1
- 7 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
- (C) 8 EDGES BREAK ALL SHARP EDGES AND REMOVE ALL BURRS
- 9 COUNTERBORE/COUNTERSINK ON SIZE 164 AND LARGER THREAD RELIEF SHALL BE .062 MINIMUM ON SIZE 138 AND SMALLER COUNTERSINK TO "P" DIAMETER
- 10 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_u, 450° F 250-28 UNJF-3B, DRY FILM LUBRICANT COUNTERSUNK 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 THIS 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 ISSUED 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 OPL 25027 SHALL BE USED
- MS21071 SUPERSEDES NAS696

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

(C)

CANCELLED PART NUMBERS	SUBSTITUTIVE PART NUMBERS	CANCELLED PART NUMBERS	SUBSTITUTIVE PART NUMBERS
NAS696X02	MS21071-02	NAS696X3K	MS21071-3K
NAS696A02	MS21071L02	NAS696A3K	MS21071L3K
NAS696X03	MS21071-03	NAS696X4	MS21071-4
NAS696A03	MS21071L03	NAS696A4	MS21071L4
NAS696X04L	MS21071-04	NAS696X4K	MS21071-4K
NAS696A04L	MS21071L04	NAS696A4K	MS21071L4K
NAS696X04LK	MS21071-04K	NAS696X5	MS21071-5
NAS696A04LK	MS21071L04K	NAS696A5	MS21071L5
NAS696X06L	MS21071-06	NAS696X5K	MS21071-5K
NAS696A06L	MS21071L06	NAS696A5K	MS21071L5K
NAS696X06LK	MS21071-06K	NAS696X6	MS21071-6
NAS696A06LK	MS21071L06K	NAS696A6	MS21071L6
NAS696X08	MS21071-08		
NAS696A08	MS21071L08		
NAS696X08K	MS21071-08K		
NAS696A08K	MS21071L08K		
NAS696X3	MS21071-3		
NAS696A3	MS21071L3 (C)		

PREPARING ACTIVITY DLA-IS
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DISTRIBUTION STATEMENT

A Approved for public release distribution is unlimited

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