

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

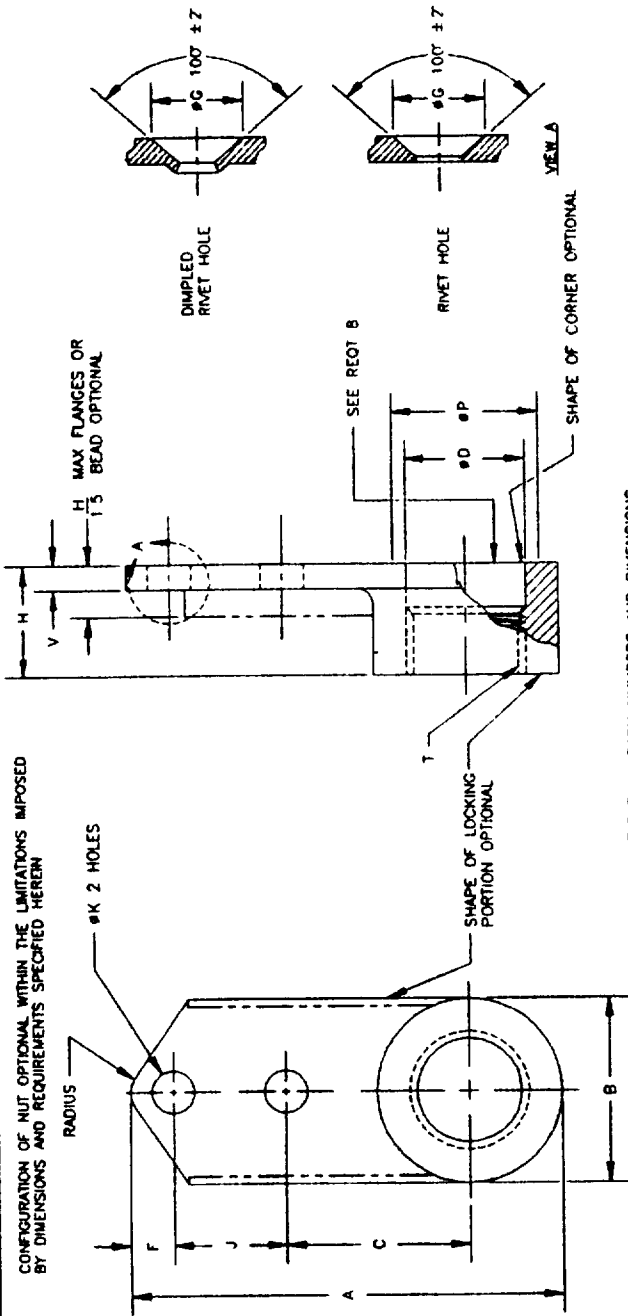


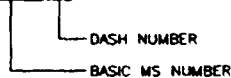
TABLE 1 DASH NUMBERS AND DIMENSIONS

DASH NUMBERS	PLAIN RIVET HOLES		COUNTERSUNK OR DIMPLED RIVET HOLES		T THREAD SIZES	A MAX	B MAX	C ± 005	D MIN	E ± 010	F MIN	G ± 010	H MAX	I H MAX	J J ± 002	K K ± 005	L L ± 005	M M ± 005	N N ± 005	O O ± 005	P P ± 005	Q Q ± 005	R R ± 005	S S ± 005	T T ± 005	U U ± 005	V V ± 005	W W ± 005	X X ± 005	Y Y ± 005	Z Z ± 005	AA AA ± 005	AB AB ± 005	AC AC ± 005	AD AD ± 005	AE AE ± 005	AF AF ± 005	AG AG ± 005	AH AH ± 005	AI AI ± 005	AJ AJ ± 005	AK AK ± 005	AL AL ± 005	AM AM ± 005	AN AN ± 005	AO AO ± 005	AP AP ± 005	AQ AQ ± 005	AR AR ± 005	AS AS ± 005	AT AT ± 005	AU AU ± 005	AV AV ± 005	AW AW ± 005	AX AX ± 005	AY AY ± 005	AZ AZ ± 005	BA BA ± 005	BB BB ± 005	BC BC ± 005	BD BD ± 005	BE BE ± 005	BF BF ± 005	BG BG ± 005	BH BH ± 005	BI BI ± 005	BJ BJ ± 005	BK BK ± 005	BL BL ± 005	BM BM ± 005	BN BN ± 005	BO BO ± 005	BP BP ± 005	BQ BQ ± 005	BR BR ± 005	BS BS ± 005	BT BT ± 005	BU BU ± 005	BV BV ± 005	BW BW ± 005	BX BX ± 005	BY BY ± 005	BZ BZ ± 005	CA CA ± 005	CB CB ± 005	CC CC ± 005	CD CD ± 005	CE CE ± 005	CF CF ± 005	CG CG ± 005	CH CH ± 005	CI CI ± 005	CJ CJ ± 005	CK CK ± 005	CL CL ± 005	CM CM ± 005	CN CN ± 005	CO CO ± 005	CP CP ± 005	CQ CQ ± 005	CR CR ± 005	CS CS ± 005	CT CT ± 005	CU CU ± 005	CV CV ± 005	CW CW ± 005	CX CX ± 005	CY CY ± 005	CZ CZ ± 005	DA DA ± 005	DB DB ± 005	DC DC ± 005	DD DD ± 005	DE DE ± 005	DF DF ± 005	DG DG ± 005	DH DH ± 005	DI DI ± 005	DJ DJ ± 005	DK DK ± 005	DL DL ± 005	DM DM ± 005	DN DN ± 005	DO DO ± 005	DP DP ± 005	DQ DQ ± 005	DR DR ± 005	DS DS ± 005	DT DT ± 005	DU DU ± 005	DV DV ± 005	DW DW ± 005	DX DX ± 005	DY DY ± 005	DZ DZ ± 005	EA EA ± 005	EB EB ± 005	EC EC ± 005	ED ED ± 005	EE EE ± 005	EF EF ± 005	EG EG ± 005	EH EH ± 005	EI EI ± 005	EJ EJ ± 005	EK EK ± 005	EL EL ± 005	EM EM ± 005	EN EN ± 005	EO EO ± 005	EP EP ± 005	EQ EQ ± 005	ER ER ± 005	ES ES ± 005	ET ET ± 005	EU EU ± 005	EV EV ± 005	EW EW ± 005	EX EX ± 005	EY EY ± 005	EZ EZ ± 005	FA FA ± 005	FB FB ± 005	FC FC ± 005	FD FD ± 005	FE FE ± 005	FF FF ± 005	FG FG ± 005	FH FH ± 005	FI FI ± 005	FJ FJ ± 005	FK FK ± 005	FL FL ± 005	FM FM ± 005	FN FN ± 005	FO FO ± 005	FP FP ± 005	FQ FQ ± 005	FR FR ± 005	FS FS ± 005	FT FT ± 005	FU FU ± 005	FV FV ± 005	FW FW ± 005	FX FX ± 005	FY FY ± 005	FZ FZ ± 005	GA GA ± 005	GB GB ± 005	GC GC ± 005	GD GD ± 005	GE GE ± 005	GF GF ± 005	GH GH ± 005	GI GI ± 005	GJ GJ ± 005	GK GK ± 005	GL GL ± 005	GM GM ± 005	GN GN ± 005	GO GO ± 005	GP GP ± 005	GQ GQ ± 005	GR GR ± 005	GS GS ± 005	GT GT ± 005	GU GU ± 005	GV GV ± 005	GW GW ± 005	GX GX ± 005	GY GY ± 005	GZ GZ ± 005	HA HA ± 005	HB HB ± 005	HC HC ± 005	HD HD ± 005	HE HE ± 005	HF HF ± 005	HG HG ± 005	HI HI ± 005	HJ HJ ± 005	HK HK ± 005	HL HL ± 005	HM HM ± 005	HN HN ± 005	HO HO ± 005	HP HP ± 005	HQ HQ ± 005	HR HR ± 005	HS HS ± 005	HT HT ± 005	HU HU ± 005	HV HV ± 005	HW HW ± 005	HX HX ± 005	HY HY ± 005	HZ HZ ± 005	IA IA ± 005	IB IB ± 005	IC IC ± 005	ID ID ± 005	IE IE ± 005	IF IF ± 005	IG IG ± 005	IH IH ± 005	IJ IJ ± 005	IK IK ± 005	IL IL ± 005	IM IM ± 005	IN IN ± 005	IO IO ± 005	IP IP ± 005	IQ IQ ± 005	IR IR ± 005	IS IS ± 005	IT IT ± 005	IU IU ± 005	IV IV ± 005	IW IW ± 005	IX IX ± 005	IY IY ± 005	IZ IZ ± 005	JA JA ± 005	JB JB ± 005	JC JC ± 005	JD JD ± 005	JE JE ± 005	JF JF ± 005	JG JG ± 005	JH JH ± 005	JI JI ± 005	JJ JJ ± 005	JK JK ± 005	JL JL ± 005	JM JM ± 005	JN JN ± 005	JO JO ± 005	JP JP ± 005	JQ JQ ± 005	JR JR ± 005	JS JS ± 005	JT JT ± 005	JU JU ± 005	JV JV ± 005	JW JW ± 005	JX JX ± 005	JY JY ± 005	JZ JZ ± 005	KA KA ± 005	KB KB ± 005	KC KC ± 005	KD KD ± 005	KE KE ± 005	KF KF ± 005	KG KG ± 005	KH KH ± 005	KI KI ± 005	KJ KJ ± 005	KL KL ± 005	KM KM ± 005	KN KN ± 005	KO KO ± 005	KP KP ± 005	KQ KQ ± 005	KR KR ± 005	KS KS ± 005	KT KT ± 005	KU KU ± 005	KV KV ± 005	KW KW ± 005	KX KX ± 005	KY KY ± 005	KZ KZ ± 005	LA LA ± 005	LB LB ± 005	LC LC ± 005	LD LD ± 005	LE LE ± 005	LF LF ± 005	LG LG ± 005	LH LH ± 005	LI LI ± 005	LJ LJ ± 005	LK LK ± 005	LM LM ± 005	LN LN ± 005	LO LO ± 005	LP LP ± 005	LQ LQ ± 005	LR LR ± 005	LS LS ± 005	LT LT ± 005	LU LU ± 005	LV LV ± 005	LW LW ± 005	LX LX ± 005	LY LY ± 005	LZ LZ ± 005	MA MA ± 005	MB MB ± 005	MC MC ± 005	MD MD ± 005	ME ME ± 005	MF MF ± 005	MG MG ± 005	MH MH ± 005	MI MI ± 005	MJ MJ ± 005	MK MK ± 005	ML ML ± 005	MM MM ± 005	MN MN ± 005	MO MO ± 005	MP MP ± 005	MQ MQ ± 005	MR MR ± 005	MS MS ± 005	MT MT ± 005	MU MU ± 005	MV MV ± 005	MW MW ± 005	MX MX ± 005	MY MY ± 005	MZ MZ ± 005	NA NA ± 005	NB NB ± 005	NC NC ± 005	ND ND ± 005	NE NE ± 005	NF NF ± 005	NG NG ± 005	NH NH ± 005	NI NI ± 005	NJ NJ ± 005	NK NK ± 005	NL NL ± 005	NM NM ± 005	NO NO ± 005	NP NP ± 005	NQ NQ ± 005	NR NR ± 005	NS NS ± 005	NT NT ± 005	NU NU ± 005	NV NV ± 005	NW NW ± 005	NX NX ± 005	NY NY ± 005	NZ NZ ± 005	OA OA ± 005	OB OB ± 005	OC OC ± 005	OD OD ± 005	OE OE ± 005	OF OF ± 005	OG OG ± 005	OH OH ± 005	OI OI ± 005	OJ OJ ± 005	OK OK ± 005	OL OL ± 005	OM OM ± 005	ON ON ± 005	OO OO ± 005	OP OP ± 005	OQ OQ ± 005	OR OR ± 005	OS OS ± 005	OT OT ± 005	OU OU ± 005	OV OV ± 005	OW OW ± 005	OX OX ± 005	OY OY ± 005	OZ OZ ± 005	PA PA ± 005	PB PB ± 005	PC PC ± 005	PD PD ± 005	PE PE ± 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005	SK SK ± 005	SL SL ± 005	SM SM ± 005	SN SN ± 005	SO SO ± 005	SP SP ± 005	SQ SQ ± 005	SR SR ± 005	SS SS ± 005	ST ST ± 005	SU SU ± 005	SV SV ± 005	SW SW ± 005	SX SX ± 005	SY SY ± 005	SZ SZ ± 005	TA TA ± 005	TB TB ± 005	TC TC ± 005	TD TD ± 005	TE TE ± 005	TF TF ± 005	TG TG ± 005	TH TH ± 005	TI TI ± 005	TJ TJ ± 005	TK TK ± 005	TL TL ± 005	TM TM ± 005	TN TN ± 005	TO TO ± 005	TP TP ± 005	TQ TQ ± 005	TR TR ± 005	TS TS ± 005	TT TT ± 005	TU TU ± 005	TV TV ± 005	TW TW ± 005	TX TX ± 005	TY TY ± 005	TZ TZ ± 005	UA UA ± 005	UB UB ± 005	UC UC ± 005	UD UD ± 005	UE UE ± 005	UF UF ± 005	UG UG ± 005	UH UH ± 005	UI UI ± 005	UJ UJ ± 005	UK UK ± 005	UL UL ± 005	UM UM ± 005	UN UN ± 005	UO UO ± 005	UP UP ± 005	UQ UQ ± 005	UR UR ± 005	US US ± 005	UT UT ± 005	UU UU ± 005	UV UV ± 005	UW UW ± 005	UX UX ± 005	UY UY ± 005	UZ UZ ± 005	VA VA ± 005	VB VB ± 005	VC VC ± 005	VD VD ± 005	VE VE ± 005	VF VF ± 005	VG VG ± 005	VH VH ± 005	VI VI ± 005	VJ VJ ± 005	VK VK ± 005	VL VL ± 005	VM VM ± 005	VN VN ± 005	VO VO ± 005	VP VP ± 005	VQ VQ ± 005	VR VR ± 005	VS VS ± 005	VT VT ± 005
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REQUIREMENTS

- 1. **MATERIAL** CARBON STEEL COMPOSITIONS 1035 (UNS G10350) 1040 (UNS G10400) AND 1050 (UNS G10500) IN ACCORDANCE WITH ASTM A827 OR 00-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
- 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

- 1. ALL DIMENSIONS ARE IN INCHES
- 2. 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.
- 3. 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
- 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 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
- 5. 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

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		

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 DODISS SPECIFIED IN THE SOLICITATION MIL-N-25027

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

PREPARING ACTIVITY CUSTODIANS ARMY- DLA-IS NAVY- AS AIR FORCE- 11 DLA-	MILITARY SPECIFICATION SHEET TITLE NUT SELF-LOCKING PLATE ONE LUG, REDUCED RIVET SPACING, LOW HEIGHT, STEEL, 125 KSI F _u , 450°F	SPECIFICATION SHEET NUMBER MS21071 SUPERSEDING MS21071 F 30 SEP 87 (SEE NOTE 5) ANSC- N/A FSC 5310
REVIEW 82 USER CR MI PROJECT NUMBER 5310-1956	DISTRIBUTION STATEMENT A Approved for public release distribution is unlimited	1 FEB 94 REV C Page 2 of 2