

FED. SUP CLASS
531C

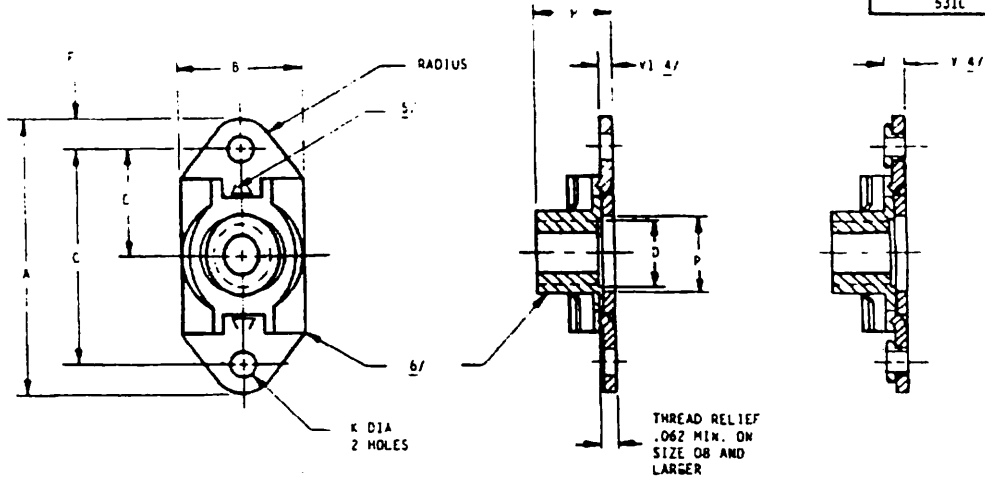


TABLE 1. DASH NUMBERS AND DIMENSIONS.

DASH NO.	1/ THREAD SIZE	A MAX	B		C ± .005	D DIA	F MIN	Z/ M MAX	J ± .002	K ± .005 - .000	P DIA	
			MAX	MIN							MAX	MIN
-04	.1120-40UNJC-38	.651	.315	.275	.203	--	.070	.153	.406	.098	.270	.152
-06	.1380-32UNJC-38	.682	.357	.290	.216	--	.070	.171	.437	.096	.270	.178
-08	.1640-32UNJC-38	.707	.367	.290	.234	.168	.100	.250	.468	.098	.270	.204
-3	.1900-32UNJF-38	.739	.416	.290	.250	.194	.100	.250	.500	.098	.270	.230
-4	.2500-28UNJF-38	.801	.500	.350	.281	.254	.100	.281	.562	.098	.330	.290
-5	.3125-24UNJF-38	1.010	.581	.412	.350	.317	.117	.328	.718	.130	.392	.352

DASH NO.	Y 4/		V1 4/		AXIAL STRENGTH LBS. MIN	WEIGHT LBS/100 MAX
	MAX	MIN	MAX	MIN		
-04	.140	.075	.090	.016	750	.25
-06	.140	.075	.090	.020	1130	.32
-08	.140	.075	.090	.025	1720	.36
-2	.140	.075	.090	.025	2460	.39
-4	.140	.085	.090	.027	4580	.69
-5	.160	.095	.105	.032	7390	1.10

- 1/ THREADS BEFORE LUBRICATION PER MIL-S-8879.
- 2/ MINIMUM "M" NOT SPECIFIED, LIMITED ONLY BY STRENGTH REQUIREMENTS.
- 3/ DASH NO. 06 AND SMALLER MAY BE COUNTERSUNK OR RADIUSSED WITHIN "P" DIAMETER.
- 4/ "Y" DIMENSION RANGE APPLIES TO "EYELET" CONFIGURATION.
- 5/ "V1" DIMENSION RANGE APPLIES TO "WITHOUT EYELET" CONFIGURATION.
- 6/ MANUFACTURER'S IDENTIFICATION PER MIL-C-1291A. LOCATION OPTIONAL.
- 7/ SHAPE WITHIN ENVELOPE OPTIONAL.

(F) DENOTES CHANGES

USED SYMBOLS
ARMY - M1, (P)
NAVY - 05

INTERPRET SYMBOLS:
ARMY - AR
AF - BZ
NAVY - SH
DISC - IS

*Numbers/size information is correct as of the date of this document.
For future contributors of changes to this document, draft numbers
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P.A. NAVY - AS Other Cust AF - 99 ARMY - AY	TITLE	MILITARY STANDARD MS21075
	DESCRIPTION	
PROCUREMENT SPECIFICATION MIL-A-25027	SUPERSIDES: HAS 1068 (SEE STATUS NOTE)	

REVISED (E) 24 OCT 68
APPROVED 5 APR 64

USAS SYMBOLS
ARMY - NI, CI
NAVY - OS

DEPARTMENT SYMBOLS
ARMY - AM
AF - 82
NAVY - 54
DISC - 15

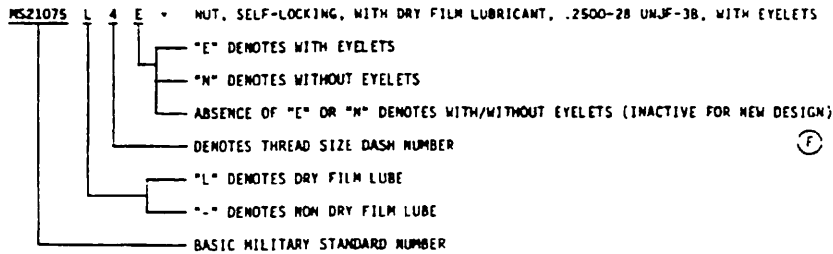
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REQUIREMENTS:

- MATERIAL:** STEEL, GRADE 1035 (UNS G10350) PER AMS 5080, GRADE 1050 (UNS G10500) PER AMS 5085, GRADE 4130 (UNS G41300) PER AMS 6350, GRADE 1040 (UNS G10400) PER ASTM A682, GRADE 1042 (UNS G10420) PER ASTM A576, GRADE 4340 (UNS G43400) PER AMS 6359 AND GRADE 8740 (UNS G8740) PER AMS 6322.
- PLATING:** CADMIUM PLATE IN ACCORDANCE WITH QQ-P-416, TYPE II, CLASS 2. THE PLATING TYPE AND CLASS OF DRY FILM LUBRICATED NUTS ARE OPTIONAL IF THE NUTS MEET THE SALT SPRAY REQUIREMENTS OF QQ-P-416, TYPE II.
- HARDNESS:** 49 HRC MAX.
- LUBRICANT:** DRY FILM LUBRICANT APPROVED IN ACCORDANCE WITH MIL-N-25027. OTHER LUBRICANTS SOLUBLE IN THE CLEANER SPECIFIED IN MIL-S-7502.
- HORIZONTAL FLOAT OF NUT ELEMENT SHALL BE NOT LESS THAN 0.020 INCH RADIALLY FROM CENTERED POSITION IN THE PLANE NORMAL TO THE THREAD AXIS. VERTICAL FLOAT OF NUT ELEMENT SHALL BE NOT GREATER THAN 0.020 INCH FOR SIZES 0.1120-40 THRU 0.1900-32 AND 0.027 FOR SIZES 0.2500-28 AND 0.3125-24. NUT ELEMENT SHALL BE CAPABLE OF ENGAGEMENT WITH BOLT IN MAXIMUM MISALIGNED POSITION.**

NOTES:

- DIMENSIONS IN INCHES.**
- SURFACE TEXTURE:** IN ACCORDANCE WITH ANSI B46.1. UNLESS OTHERWISE SPECIFIED, THE SURFACE ROUGHNESS SHALL NOT EXCEED 125 MICRO INCHES.
- 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 SECTIONAL AREA AT THE BASIC PITCH DIAMETER OF THE THREAD. 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 OPL 25027 SHALL BE USED.
- INTERCHANGEABILITY RELATIONSHIP:** MS21075 NUTS CAN UNIVERSALLY REPLACE WAS 1068 NUTS OF LIKE MATERIAL, THREAD SIZE, LUBRICANTS (DRY FILM OR NON DRY FILM), AND RIVET SPACING; BUT WAS 1068 NUTS, CANNOT UNIVERSALLY REPLACE MS21075 NUTS.
- PART NUMBER:**



- 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 (DoD ISS) SPECIFIED IN THE SOLICITATION FORM A PART OF THIS STANDARD TO THE EXTENT SPECIFIED HEREIN.
- WHEN FASTENING EYELET CONFIGURATION NUTS WITH BULB TYPE RIVETS (BLIND FASTENERS), SUBTRACT 1/32 INCH FROM THE STACK UP OF MATERIAL AND NUT PLATE TO CALCULATE CORRECT GRIP LENGTH.

APPROVED 6 APR 64 REVISED (C) FOR CHANGES SEE SHEET 2

P.A. NAVY - AS Other Cust AF - 99 ARMY - AV	TITLE	MILITARY STANDARD
	NUT, SELF-LOCKING, PLATE, TWO LUG FLOATING, REDUCED RIVET SPACING, LOW HEIGHT, STEEL, 125 KSI F _{tu} , 450°F	MS21075
PROCUREMENT SPECIFICATION MIL-N-25027	SUPersedes: WAS 1068 (SEE STATUS NOTE)	SHEET 2 OF 2

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