

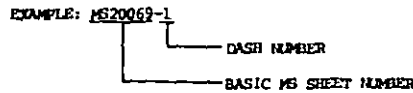
TABLE I DASH NUMBER AND DIMENSIONS

DASH NUMBER	ØD BOLT SIZE	L LENGTH	H HEAD HEIGHT	ØA HEAD	T THREAD LENGTH	P SQ NECK DEPTH	W WIDTH FLATS	R FILLET RAD	S CONSER RAD	X	Z
-1	.375-16 UNC-2A	4.000 +.040 -.060	.208 MAX .188 MIN	.844 MAX .782 MIN	1.750 MIN	.219 MAX .188 MIN	.388 MAX .368 MIN	.031 MAX .015 MIN	.047 MAX	.023	.026
-2	.375-16 UNC-2A	4.500 +.060 -.100	.208 MAX .188 MIN	.844 MAX .782 MIN	1.750 MIN	.219 MAX .188 MIN	.388 MAX .368 MIN	.031 MAX .015 MIN	.047 MAX	.023	.026
-3	.500-13 UNC-2A	4.500 +.080 -.100	.270 MAX .250 MIN	1.094 MAX 1.032 MIN	3.000 MIN	.281 MAX .250 MIN	.515 MAX .492 MIN	.031 MAX .015 MIN	.047 MAX	.030	.035

1/ THREAD LENGTH SHALL BE MEASURED FROM THE END OF BOLT TO LAST COMPLETE (FULL FORM) THREAD.

REQUIREMENTS:

- MATERIAL** : BOLTS SHALL BE STEEL GRADE 1020 OR 1025 IN ACCORDANCE WITH ASTM A576 (UNS G10200 OR G10250).
- TENSILE STRENGTH** : MINIMUM TENSILE STRENGTH SHALL BE IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.
- PROTECTIVE COATING** : BOLTS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.
- THREADS** : SHALL BE UNIFIED COARSE SERIES CLASS 2A IN ACCORDANCE WITH FED-STD-H28/2. PRIOR TO COATING, ACCEPTABILITY OF SCREW THREADS SHALL BE IN ACCORDANCE WITH FED-STD-H28/20, SYSTEM 21. AFTER COATING, THE THREADS SHALL BE IN SUCH CONDITION THAT NUTS CAN BE RUN THE ENTIRE LENGTH OF THE THREAD WITHOUT THE USE OF TOOLS.
- FINISH** : IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.
- MARKING** : BOLTS SHALL BE MARKED WITH MS PART NUMBER AND MANUFACTURER'S SYMBOL OR OTHER MANUFACTURER'S IDENTIFICATION, IN ACCORDANCE WITH MIL-STD-130.
- PART NUMBER** : THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER, FOLLOWED BY A DASH NUMBER FROM TABLE I.



MS20069-1 INDICATES- BOLT, SQUARE NECK, CARRIAGE, HOT GALVANIZED, POLE LINE, .375-16UNC-2A, LENGTH, 4 INCHES.

- UNLESS OTHERWISE SPECIFIED, EACH BOLT SHALL BE FURNISHED WITH NUT ASSEMBLED THERE-ON. NUTS SHALL CONFORM TO MS21304.
- STRAIGHTNESS. BOLTS SHALL BE STRAIGHT WITHIN .006 PER INCH OF BOLT LENGTH.

ⓑ ENTIRE STANDARD REVISED

P.A. ARMY-ER Other Cust NAVY-YD AIR FORCE-99 PROCUREMENT SPECIFICATION ANSI C135.1	INTERNATIONAL INTEREST	TITLE BOLT, SQUARE NECK, CARRIAGE, HOT GALVANIZED (POLE LINE)	MILITARY STANDARD MS20069
SUPERSEDES:		PAGE 1 OF 2	

REVIEWER ACTIVITIES: ONI, AGENCIES COORDINATING ACTIVITIES: USER ACTIVITIES: ARMY-GL, ME AIR FORCE-82 GSA-FSS NASA-JFK NAVY-MC NSA-MC

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FED SUP CLASS
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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 THE ISSUE LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DDISS) SPECIFIED IN THE SOLICITATION, FORM A PART OF THIS STANDARD TO THE EXTENT SPECIFIED HEREIN.

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APPROVED 18 JUL 58 REVISED (B) FOR CHANGES SEE PAGES 1 AND 2

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Other Cust NAVY-YD AIR FORCE-99			MS20069
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