

**USER ACTIVITIES:**

**REVIEWER ACTIVITIES:**

DLA-IS

**DISTRIBUTION STATEMENT A.** Approved for public release; distribution is unlimited. This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

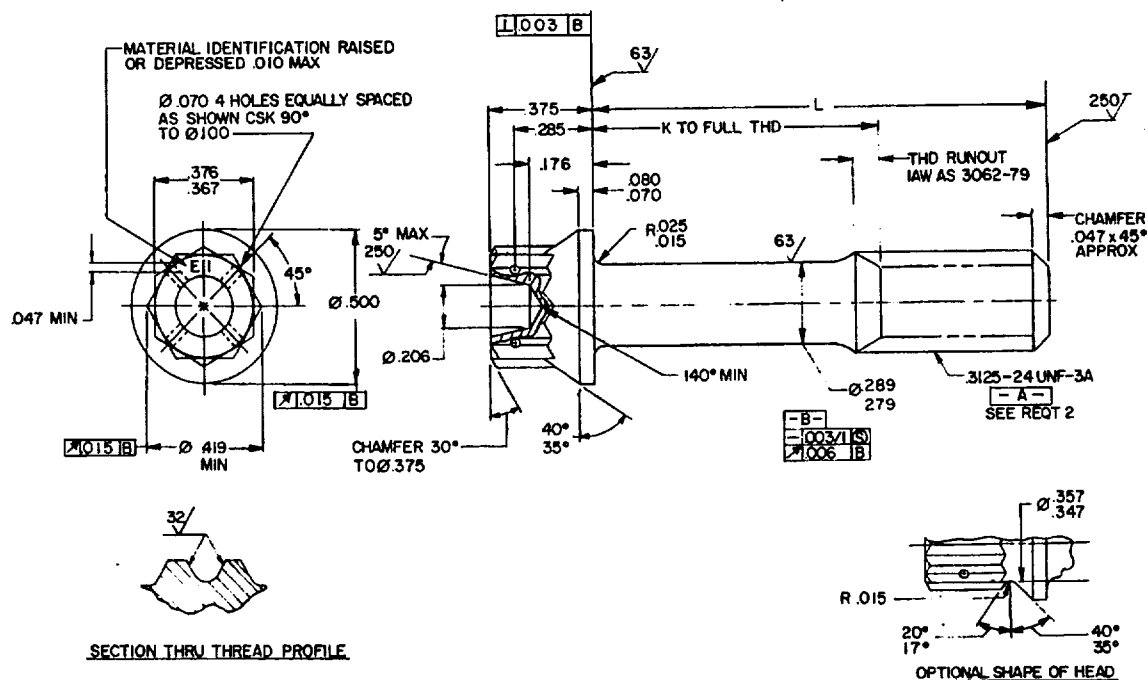


TABLE I. DASH NUMBERS AND DIMENSIONS

DASH NUMBER	L	K + .000 - .060	APPROX WEIGHT LBS/100	DASH NUMBER	L	K + .000 - .060	APPROX WEIGHT LBS/100	DASH NUMBER	L	K + .000 - .060	APPROX WEIGHT LBS/100
-05	.562	1/	2.21	-23	1.688	.812	4.22	-41	3.875	3.000	8.17
-06	.625	1/	2.28	-24	1.750	.875	4.33	-42	4.000	3.125	8.40
-07	.688	1/	2.39	-25	1.875	1.000	4.55	-43	4.125	3.250	8.63
-08	.750	1/	2.51	-26	2.000	1.125	4.77	-44	4.250	3.375	8.86
-09	.812	1/	2.62	-27	2.125	1.250	5.00	-45	4.375	3.500	9.08
-10	.875	1/	2.73	-28	2.250	1.375	5.23	-46	4.500	3.625	9.30
-11	.938	1/	2.85	-29	2.375	1.500	5.45	-47	4.625	3.750	9.52
-12	1.000	.125	2.96	-30	2.500	1.625	5.67	-48	4.750	3.875	9.74
-13	1.062	.188	3.07	-31	2.625	1.750	5.90	-49	4.875	4.000	9.95
-14	1.125	.250	3.19	-32	2.750	1.875	6.13	-50	5.000	4.125	10.17
-15	1.188	.312	3.30	-33	2.875	2.000	6.36	-51	5.125	4.250	10.40
-16	1.250	.375	3.41	-34	3.000	2.125	6.58	-52	5.250	4.375	10.63
-17	1.312	.438	3.52	-35	3.125	2.250	6.80	-53	5.375	4.500	10.86
-18	1.375	.500	3.64	-36	3.250	2.375	7.03	-54	5.500	4.625	11.10
-19	1.438	.562	3.75	-37	3.375	2.500	7.27	-55	5.625	4.750	11.33
-20	1.500	.625	3.87	-38	3.500	2.625	7.50	-56	5.750	4.875	11.56
-21	1.562	.688	3.98	-39	3.625	2.750	7.73	-57	5.875	5.000	11.78
-22	1.625	.750	4.10	-40	3.750	2.875	7.95	-58	6.000	5.125	12.00

1/ THREAD TO HEAD. MAXIMUM TWO INCOMPLETE THREADS

INACTIVE FOR DESIGN AFTER  
28 FEB 84  
FOR PARTS WITH MIL-S-8879  
SCREW THREADS SEE MS9925

© DENOTES CHANGES

P. A. NAVY-AS Other Cust AIR FORCE-11	INTERNATIONAL INTEREST	TITLE © BOLT-MACHINE, DRILLED 12 POINT HEAD, STEEL, .3125-18 UNF-3A	MILITARY STANDARD MS 9090
PROCUREMENT SPECIFICATION AMS 7452	SUPERSEDES:		PAGE 1 OF 2

FED. SUP CLASS  
5306

## REQUIREMENTS:

- (C) 1. MATERIAL: STEEL IN ACCORDANCE WITH AMS 6322-80.
2. THREADS: THREADS IN ACCORDANCE WITH MIL-S-7742. INCOMPLETE THREADS NOT TO ENTER FILLET.
3. FINISH: CADMIUM PLATE IN ACCORDANCE WITH AMS 2400-80. DIMENSIONS SPECIFIED ARE AFTER PLATING.
4. HARDNESS: 26-32 HRC.
5. DIMENSIONING AND TOLERANCING: DIMENSIONING AND TOLERANCING SHALL BE IN ACCORDANCE WITH ANSI Y14.5M.
6. WRENCHING CONFIGURATION: WRENCHING CONFIGURATION IN ACCORDANCE WITH AS870-74.
7. SURFACE TEXTURE: SURFACE TEXTURE, UNLESS OTHERWISE SPECIFIED, SHALL BE 125 MICROINCHES, EXCEPT UPSET HEAD, IN ACCORDANCE WITH ANSI B46.1.
8. MAGNETIC PARTICLE INSPECTION: MAGNETIC PARTICLE INSPECTION SHALL BE IN ACCORDANCE WITH AMS 2640-83.
9. TOLERANCE: UNLESS OTHERWISE SPECIFIED, TOLERANCES SHALL BE FOR LINEAR DIMENSIONS  $\pm .010$ , ANGULAR DIMENSIONS  $\pm 5^\circ$ .
10. EDGES: BREAK SHARP EDGES .003 - .015, UNLESS OTHERWISE SPECIFIED.
11. PART NUMBER: THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE I.

EXAMPLE: MS9090-05

— DASH NUMBER  
— BASIC MS NUMBER

MS9090-05 INDICATES: BOLT, MACHINE, STEEL DRILLED 12 POINT HEAD;  
.3125-24 UNF-3A; LENGTH .562.

## NOTES:

- ALL DIMENSIONS ARE IN INCHES.
- DO NOT USE UNASSIGNED PART NUMBERS.
- 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 NONGOVERNMENT) 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.
- THIS STANDARD WAS DEVELOPED COOPERATIVELY WITH THE SAE AEROSPACE PROPULSION DIVISION.
- AS AND AMS ARE SAE PUBLICATIONS.
- SUBJECT TERM (KEY WORD) LISTING.

BOLT, MACHINE, STEEL DRILLED 12 POINT HEAD, CADMIUM PLATE

APPROVED 25 APR 57 REVISED © FOR CHANGES SEE PAGES 1 AND 2

P. A. NAVY-AS Other Cost AIR FORCE-11	INTERNATIONAL INTEREST	TITLE BOLT-MACHINE, © DRILLED 12 POINT HEAD, STEEL, .3125-18 UNF-3A	MILITARY STANDARD MS 9090
PROCUREMENT SPECIFICATION AMS 7452	SUPERSEDES:		PAGE 2 OF 2

DD FORM 672-1 (COORDINATED)  
1 MAY 73

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

5306-1190

USER ACTIVITIES

REVIEWER ACTIVITIES

DLA-1S

This military standard is approved for use by all Departments and Agencies of the Department of Defense.  
Selection for all new engineering and design applications and for repetitive use shall be made from this document.