



REVIEWER AV, IS, PA  
USER AS, ME, OS, WT, YD

NOMINAL SIZE		.250	.3125	.375	.4375	.500	.5625	.625	.750	1.000		
THREADS PER INCH (UNC-2A)		20	18	16	14	13	12	11	10	8		
D BODY DIAMETER	(A)	MAX MIN	.260 .237	.324 .298	.388 .360	.452 .421	.515 .483	.578 .544	.642 .605	.768 .729	1.022 .976	
A HEAD LENGTH		MAX MIN	.500 .488	.625 .609	.750 .731	.875 .853	1.000 .975	1.125 1.097	1.250 1.218	1.500 1.462	2.000 1.950	
B HEAD WIDTH		BASIC MAX MIN	.250 .280 .245	.312 .342 .307	.375 .405 .368	.438 .468 .431	.500 .530 .492	.562 .592 .551	.625 .675 .616	.750 .800 .741	1.000 1.063 .990	
H HEAD HEIGHT		BASIC MAX MIN	.188 .204 .172	.250 .267 .233	.312 .331 .295	.375 .394 .356	.438 .458 .418	.500 .520 .479	.562 .585 .541	.625 .649 .601	.875 .903 .847	
K HEAD RADIUS		NOM	.44	.50	.62	.88	.88	1.06	1.06	1.25	1.50	
R FILLET RADIUS	(A)	MAX	.03	.03	.03	.03	.03	.06	.06	.06	.06	
L LENGTH	TOLERANCE				DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.
	SIZE .250 THRU .375	SIZE .4375 AND .500	SIZE .5625 THRU .750	SIZE 1.000								
1.12						2						
1.25							5					
1.38							6					
1.50	+.02 -.04	+.04 -.06	+.06 -.08	+.08 -.10		3						
1.75												
2.00					1	4	7		9		15	
2.25												
2.38									10 11			
2.62									12 13			
2.88	+.04 -.06	+.06 -.08	+.08 -.10	+.10 -.14								
3.00												
3.50											16	
4.25	+.06 -.10	+.08 -.10	+.10 -.16									17

NOTE. Lined out dash numbers are INACTIVE FOR NEW DESIGN AFTER 18 OCT 1974

- (A) NOTES:
- MATERIAL:** Carbon steel in accordance with Fed. Std. No. 66. The minimum ultimate tensile strength shall be 60,000 PSI.
  - PROTECTIVE COATING:** Cadmium plated in accordance with QQ-P-416, Type II, Class 3 or MIL-C-81562, Type II, Class 3.
  - THREADS:** The threads shall be in accordance with Screw-Thread Standards for Federal Services, Handbook H28.
  - THREAD LENGTH:** Minimum full form thread length shall be equal to twice the nominal size plus 0.25 inch. Bolts too short for minimum thread length shall have full form threads extending as close to the head as practicable.
  - DIMENSIONS:** All dimensions are in inches.
  - PART NUMBER:** The MS part number consists of the MS number, plus the dash number.  
Example: MS90729-1.
  - Referenced documents shall be of the issue in effect on date of invitations for bid.
  - For design feature purposes, this standard takes precedence over procurement documents referenced herein.

This 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.

APPROVED 6 JUN 1963 REVISED (A) 18 OCT 1974

P A WC Other Cust YD 82	TITLE <b>BOLT, TEE HEAD</b>	<b>MILITARY STANDARD</b> <b>MS 90729</b>
PROCUREMENT SPECIFICATION FF-B-584	SUPERSEDES	SHEET 1 OF 1