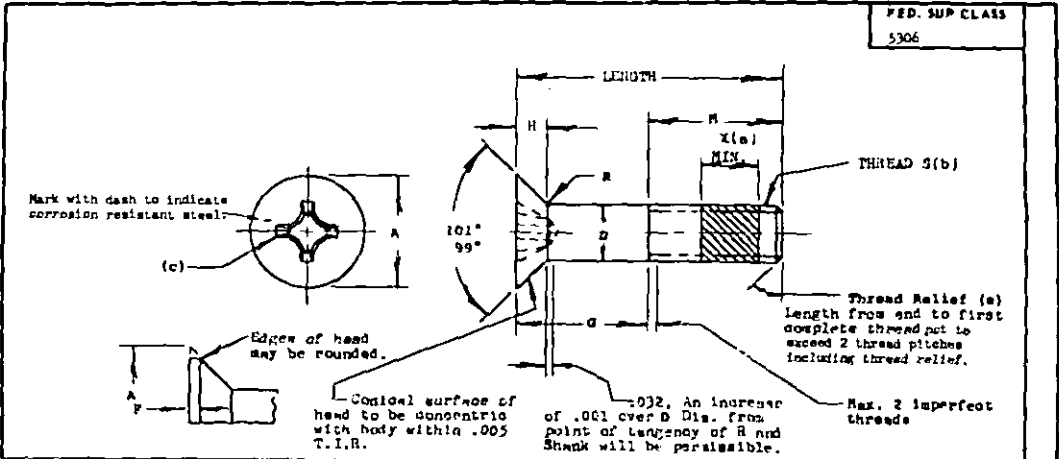


USE SYMBOLS:

NAVY - AS
USAF - 11
ARMY - AV



DASH NO DIA	THREAD S	D DIA		A DIA			F MAX	H MIN	M REF	R RAD		(r) TENSILE STRENGTH LEG MIN	DOUBLE SHEAR STRENGTH LSS MIN	DRIVER SIZE
		MAX	MIN	MAX SHARP	MIN SHARP	ABSOLUTE MIN WITH MAX F				MAX	MIN			
04	.112-10UNC-3A	.1120	.0925	.225	.207	.200	.010	.044	.250			480	930	1
06	.138-12UNC-3A	.1380	.1141	.279	.257	.249	.014	.055	.312			720	1,420	1
08	.164-12UNC-3A	.1640	.1610	.332	.319	.283	.015	.068	.437	.015	.003	1,120	2,030	2
3	.190-12UNF-3A	.1890	.1860	.385	.371	.327	.016	.080	.469			1,600	2,720	2
4	.250-20UNF-3A	.2490	.2460	.507	.491	.447	.018	.106	.506			2,910	4,700	3
5	.3125-24UNF-3A	.3115	.3085	.635	.617	.569	.020	.133	.531			4,640	7,370	3
6	.375-24UNF-3A	.3740	.3710	.762	.742	.686	.023	.159	.641			7,020	10,600	4
7	.4375-20UNF-3A	.4365	.4325	.890	.868	.805	.026	.186	.656	.020	.020	9,490	14,400	4
8	.500-20UNF-3A	.4990	.4950	1.017	.992	.919	.030	.213	.781			12,790	18,800	4
9	.5625-18UNF-3A	.5615	.5575	1.145	1.118	1.036	.034	.240	.936			16,250	23,900	4

- (a) Location of effective locking area X shall be in accordance with MS15981
- (b) Threads shall be formed by any single rolling process and in accordance with Specification. All-S-7747 & HBK H28
- (c) Dimensioning and gaging of recess design shall be in accordance with MS9006.
- (d) Reference dimensions are for design purposes only and are not an inspection or manufacturing requirement.
- (e) Chamfer 45° ± 5° Chamfer to extend to root of thread
- (f) Based on 80,000 PSI ultimate tensile strength, and stress area = 3.1416 (R/2 - 3H/16)². See handbook H-28 (1957) Part I.

MATERIAL: Corrosion Resisting Steel that will provide in the finished bolt the strength and permeability specified.
TREATMENT: Passivated (See Procurement Specification).
SURFACE ROUGHNESS: The surface of the shank, fillet and bearing area shall not exceed 125 micro-inches per ANSI(USAS)B46.1(1962)
LOCKING ELEMENT: In accordance with Specification MIL-F-18240. Locking element area, with locking element incorporated, must pass thru a ring gage equal to maximum major thread diameter +.003" freely or with finger pressure.
MAGNETIC PERMEABILITY: These bolts have a magnetic permeability of 2.0 maximum (air = 1.0) for a field of H = 200 oersteds using magnetic indicator per MIL-I-17211.

DESIGN AND USAGE LIMITATIONS: See MS15981.
DIMENSIONS IN INCHES.
DIMENSIONS & TOLERANCES: In accordance with ANSI(USAS)Y14.5(1966).
EXAMPLE OF PART NUMBER: MS21092-1008 .250-28 Bolt, .500 Grip
 GRIP DASH NUMBER
 DIAMETER DASH NUMBER

FOR DESIGN FEATURE PURPOSES THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

(A) REVISED		MILITARY STANDARD MS21092	
P.A. Navy - AS Other Cases USAF - 11 ARMY - AV	TITLE BOLT, SELF-LOCKING, 250° F. CRES, 48 KSI Fuu, 80 KSI Fuu, 100° FLUSH HEAD, CROSS RECESSED		
PROCUREMENT SPECIFICATION MIL-S-21092 & MIL-F-18240	SUPERSEDES MS21092(ABC)		

Review/issue information is current as of the date of this document. For future consideration of changes to this document, draft circulation should be based on the information in the current document.

This military standard is mandatory for use by all Departments & Agencies of the Department of Defense. Exceptions for all use engineering and design applications and for compliance with shall be made from this document.

APPROVED 2 May 65 REVISED 4 30 Sep 70

