



TABLE I DIMENSIONS AND PART NUMBERS.

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NOMINAL SIZE	.250	.375
B - THREADS PER INCH UNC-2A	20	16
Ø D - BODY MAX DIAMETER MIN	.2500 .2450	•3750 •3690
F - WID"H MAX ACROSS FLATS MIN	.4375 .4280	.5625 .5510
G - WIDTH MAX ACROSS CORNERS MIN	.5050 .4880	6500 .6280
H - HEAD HEIGHT MAX MIN	.1630 .1500	.24 <b>3</b> 0 .2260
R - RADIUS MAX	.0250 .0150	.0250 .0150
1/minimum tensile 10ad - 188	4,750	11,600
L - LENGTH	DASH NO	DASH NO
.625 +.000 031	1	3
1.000 +.000 062	2	4

PA	AR	INTERNATIONAL INTEREST	SCREW, CAP HEXAGON HEAD (FINISHED HEXAGON BOLT), ALLOY STEEL, GRADE 8	MILITARY STANDARD	
Other Cust	SH 99			MS51488	
	AENT SPEC	IFICATION SUPER	EDES		PAGE OF 2

REVISED

APPROVED | AUG 84

REQUIREMENTS.

- 1. MATERIAL. ALLOY STEEL, GRADE 8, IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.
- 2. FINISH. ZINC COATING IN ACCORDANCE WITH ASTM B633-78, Fe/Z_n5 (5 μm), TYPE II.
- THREADS. THE THREADS SHALL BE IN ACCORDANCE WITH FED-STD-H28/2. ACCEPTABILITY OF SCREW THREAD9 SHALL BE IN ACCORDANCE WITH FED-STD-H28/20, SYSTEM 21.
- 4. THREAD LENGTH. MINIMUM THREAD LENGTH SHALL BE TWICE THE DIAMETER FLUS .250 INCH THE TOLERANCE SHALL BE PLUS 1 88 INCH OR 2-1/2 THREADS MHICHEVER IS GREATER. ON SCHEMS THAT ARE TOO SHORT FOR MINIMUM THREAD LENGTHS, THE DISTANCE FROM THE BEARING SURFACE OF THE HEAD TO THE FIRST COMPLETE THREAD SHALL NOT EXCHED THE LENGTH OF 2-1/2 THREADS FOR SIZES UP TO AND INCLUDING 1.000 INCH
- 5 HEAD MARKING. HEADS SHALL BE MARKED IN ACCORDANCE WITH MIL-HDEK-131 RAISED MARKINGS ARE PREFERRED, STAMPINGS ARE ACCEPTABLE.
- 6 BASED ON MINIMUM ULTIMATE TENSILE STRENGTH OF 150,000 PSI FOR DIAMETERS THRU 1 500 INCHES TENSILE LOADS ARE CALCULATED BY THE STRESS AREAS INDICATED IN FED-STD-H28/2
- 7. PART NUMBERS THE BASIC MS PART NUMBER IS FOLLOWED BY A DASH NUMBER TAKEN FROM TABLE I.

EXAMPLE MS51458-1 - SCREW, CAP, HRXAGON HEAD, ALLOY STREL, GRADE 8, .250-20 UNC-2A, LENGTH 625, ZINC COATED

## NOTES:

- 1 ALL DIMENSIONS ARE IN INCHES.
- 2 REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATF OF INVITATIONS FOR BIDS OR REQUEST FOR PROPOSAL, EXCEPT THAT REFERENCED ADOPTED INDUSTRY DOCUMENTS SHALL GIVE THE DATE OF THE ISSUE ADOPTED
- 3. FOR DESIGN FEATURE PURPOSPS, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN

AR INTERNATIONAL TITLE SCREW, CAP HEXAGON HEAD (FINISHED HEXAGON BOLT),

PROCUREMENT SPECIFICATION SUPERSEDES

FF - S - 85

INTERNATIONAL TITLE SCREW, CAP HEXAGON HEAD (FINISHED HEXAGON BOLT),

MILITARY STANDARD

MS5 | 488

DD . 672.1 (COORDINATED)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

5305-1479

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