

REVIEWER: AV, 15, MI, MO, NSA, OS, 63
USER: AS, CL, MC, ME, YD

2032

SEE NOTE 6

OPTIONAL DESIGN

FED. SUP CLASS 5305

NOMINAL SIZE	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
B THREADS UNF-2A	28	24	24	20	20	18	16	14	12
D BODY DIAMETER	MAX .2500 MIN .2450	.3125 .3063	.3750 .3690	.4375 .4303	.5000 .4930	.6250 .6170	.7500 .7410	.8750 .8660	1.0000 .9900
F WIDTH ACROSS FLATS	MAX .4375 MIN .4280	.5000 .4890	.5625 .5510	.6250 .6120	.7500 .7360	.9375 .9220	1.1250 1.1000	1.3125 1.2850	1.5000 1.4690
C WIDTH ACROSS CORNERS	MAX .505 MIN .488	.577 .557	.650 .628	.722 .698	.866 .840	1.083 1.051	1.299 1.254	1.516 1.465	1.732 1.675
H HEAD HEIGHT	MAX .163 MIN .150	.211 .195	.243 .226	.291 .272	.323 .302	.403 .378	.483 .455	.563 .531	.627 .591
1/2 H	MAX .088 MIN .075	.114 .098	.130 .113	.153 .136	.172 .151	.214 .189	.256 .228	.298 .266	.332 .296
J HOLE DIAMETER	+.006 -.002	.0625	.0625	.0625	.094	.094	.094	.125	.125
R RADIUS	MAX .025 MIN .015	.025 .015	.025 .015	.025 .015	.025 .015	.045 .020	.045 .020	.065 .040	.093 .060
MIN TENSILE STRENGTH - LBS (B)	2,540	4,050	6,130	8,300	11,150	17,900	26,100	35,600	46,400

L LENGTH	TOLERANCE		DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.
	SIZE 3/4 AND UNDER	SIZE 7/8 AND OVER									
.375	+0 -.031	---	1	27	55	84	110	133	157		
.438											
.500											
.562											
.625											
.750											
.875											
1.000											
1.250	+0 -.062	+0 -.125	9	35	61	87	113	136	158	182	206
1.500											
1.750											
2.000											
2.250	+0 -.094	+0 -.188	13	39	65	91	117	140	162	186	210
2.500											
2.750											
3.000											
3.250											
3.500											
3.750											
4.000											
4.250											
4.500											
4.750											
5.000											
5.500											
6.000											
6.500											
7.000											

NOTE: For notes see sheet 2.

(B) For changes see sheets 1 and 2.

P.A. MC Other Conf SH 62	TITLE SCREW, CAP, HEXAGON HEAD (FINISHED HEXAGON BOLT) HEAD DRILLED FOR LOCKING WIRE, STEEL, CORROSION-RESISTING, PASSIVATED, UNF-2A	MILITARY STANDARD MS51100
PROCUREMENT SPECIFICATION FF-8-63	SUPERSEDES:	SHEET 1 OF 2

DD FORM 672-1 (Continued)

APPROVED 16 JUL 1958 REVISED (A) 14 OCT 1968 (B) 1 MAY 1969

FED. SUP CLASS
5305

NOTES:

- ① 1. **MATERIAL:** Corrosion-resisting steel, 400 series, in accordance with procurement specification. Minimum ultimate tensile strength: 70,000 p.s.i.
2. **PROTECTIVE COATING:** Passivated in accordance with procurement specification.
3. **THREADS:** The threads shall be in accordance with Screw-Thread Standards for Federal Services, Handbook H28.
4. **THREAD LENGTH:** Minimum thread length shall be twice the diameter plus 1/4 inch. The tolerance shall be plus 3/16 inch or 2-1/2 threads, whichever is greater. On screws that are too short for minimum thread lengths, the distance from the bearing surface of the head to the first complete thread shall not exceed the length of 2-1/2 threads.
5. **DIMENSIONS:** All dimensions are in inches, unless otherwise specified.
- ② 6. **HEAD MARKING:** Heads shall be marked in accordance with MIL-HDBK-131. Raised markings are preferred, stampings are acceptable.
7. **PART NUMBER:** The MS part number consists of the MS number, plus the dash number. Example: MS51100-1.
8. Referenced documents shall be of the issue in effect on date of invitations for bid.
9. For design feature purposes, this standard takes precedence over procurement documents referenced herein.

This military standard is mandatory 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.

REVIEWER: AT, AV, IS, MI, MU, NSA, OS, OS, USER: AT, AV, IS, MI, MU, NSA, OS, OS, YD

APPROVED 16 JUL 1958 REVISED A 14 OCT 1968 B FOR CHANGES SEE SHEETS 1 AND 2.

P.A. VC Other Code SH -82	TITLE SCREW, CAP, HEXAGON HEAD (FINISHED HEXAGON BOLT), HEAD DRILLED FOR LOCKING WIRE, STEEL, CORROSION-RESISTING, PASSIVATED, UNF-2A	MILITARY STANDARD MS51100
PROCUREMENT SPECIFICATION FF-3-85	SUPERSEDES	SHEET 2 OF

DD FORM 672-1 (Continued)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.