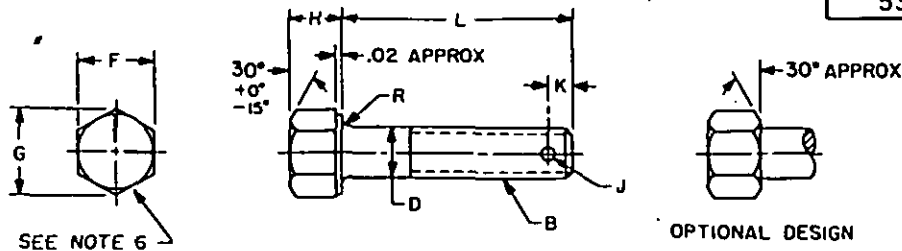


FED. SUP CLASS
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REVIEWER: AT, AV, IS, NSA, OS, BS
USER: AS, CL, MC, ME, MI, YD

NOMINAL SIZE	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
B THREAD UNF-2A	28	24	24	20	20	18	16	14	12
D BODY DIAMETER	MAX .2500 MIN .2450	.3125 .3065	.3750 .3690	.4375 .4305	.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
J HOLE DIAMETER	+.006 -.002	.076	.076	.107	.107	.140	.140	.140	.140
K	±.010	.109	.125	.156	.156	.188	.219	.250	.250
R RADIUS	MAX .025 MIN .015	.025 .015	.025 .015	.025 .015	.025 .015	.045 .020	.045 .020	.065 .040	.095 .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.
	SIZE 3/4 AND UNDER	SIZE 7/8 AND OVER								
.375	+0 -.031	---	1	27						
.438			2	28						
.500			3	29	55					
.562			4	30	56					
.625			5	31	57					
.750			6	32	58	84	110	133		
.875			7	33	59	85	111	134		
1.000			8	34	60	86	112	135	157	
1.250	+0 -.062	+0 -.125	9	35	61	87	113	136	158	182
1.500			10	36	62	88	114	137	159	183
1.750			11	37	63	89	115	138	160	184
2.000			12	38	64	90	116	139	161	185
2.250			13	39	65	91	117	140	162	186
2.500	+0 -.094	+0 -.188	14	40	66	92	118	141	163	187
2.750			15	41	67	93	119	142	164	188
3.000			16	42	68	94	120	143	165	189
3.250			17	43	69	95	121	144	166	190
3.500			18	44	70	96	122	145	167	191
3.750			19	45	71	97	123	146	168	192
4.000			20	46	72	98	124	147	169	193
4.250			21	47	73	99	125	148	170	194
4.500			22	48	74	100	126	149	171	195
4.750			23	49	75	101	127	150	172	196
5.000			24	50	76	102	128	151	173	197
5.500							129	152	174	198
6.000							130	153	175	199

NOTE: For notes see sheet 2.

(B) For changes see sheets 1 and 2.

P.A. WC Other Cust SH 62	TITLE SCREW, CAP, HEXAGON HEAD (FINISHED HEXAGON BOLT), SHANK DRILLED FOR COTTER PIN, STEEL, CORROSION-RESISTING, PASSIVATED, UNF-2A	MILITARY STANDARD MS51110
PROCUREMENT SPECIFICATION FF-S-85	SUPERSEDES:	SHEET 1 OF 2

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.

DD FORM 672-1 (Continued)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

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

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NOTES:

- (B) 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.
- (B) 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: MS51110-1.
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.

REVIEWER: AT, AV, IS, NSA, OS, BS
USER: AS, CL, MC, ME, MI, YD

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

P.A. WC	TITLE	MILITARY STANDARD
Other Cost SH 82	SCREW, CAP, HEXAGON HEAD (FINISHED HEXAGON BOLT), SHANK DRILLED FOR COTTER PIN, STEEL, CORROSION-RESISTING, PASSIVATED, UNF-2A	MS51110
PROCUREMENT SPECIFICATION FF-S-85	SUPERSEDES:	SHEET 2 OF