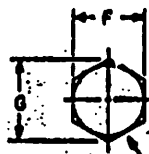
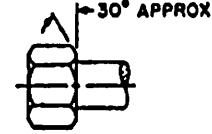
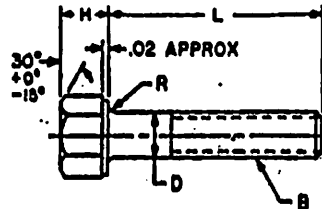


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SEE NOTE 6



OPTIONAL DESIGN

TABLE I

NOMINAL SIZE		1/4	5/16	3/8	7/16	1/2	9/16
B THREAD UNF-2A		20	24	24	20	20	18
D BODY DIAMETER	MAX	.2500	.3125	.3750	.4375	.5000	.5625
	MIN	.2450	.3063	.3690	.4303	.4930	.5543
F WIDTH ACROSS FLATS	MAX	.4375	.5000	.5625	.6250	.7500	.8125
	MIN	.4280	.4890	.5510	.6120	.7360	.7980
G WIDTH ACROSS CORNERS	MAX	.505	.577	.650	.722	.866	.938
	MIN	.488	.557	.628	.698	.840	.910
H HEAD HEIGHT	MAX	.163	.211	.243	.291	.323	.371
	MIN	.150	.193	.226	.272	.302	.348
R RADIUS	MAX	.025	.025	.025	.025	.025	.043
	MIN	.015	.015	.015	.015	.015	.020
MIN TENSILE STRENGTH - LBS		2,910	4,640	7,020	9,500	12,800	16,200
L LENGTH	TOLERANCE	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.
.375	+0 -.031	301	327	353			
.438		302	328	354			
.500		303	329	355	379		
.562		304	330	356	381		430
.625		305	331	357	382	404	431
.750		306	332	358	383	403	432
.875		307	333	359	384	406	433
1.000		308	334	360	385	407	434
.125	+0 -.062	309	335	361	386	408	435
.250		310	336	362	387	409	436
.375		311	337	363	388	410	437
.500		312	338	364	389	411	438
.750		313	339	365	390	412	439
2.000		314	340	366	391	413	440
2.250	+0 -.094	315	341	367	392	414	441
2.500		316	342	368	393	415	442
2.750		317	343	369	394	416	443
3.000		318	344	370	395	417	444
1.250		319	345	371	396	418	445
1.500		320	346	372	397	419	446
1.750		321	347	373	398	420	447
1.000		322	348	374	399	421	448
1.250		323	349	375	400	422	449
1.500		324	350	376	401	423	450
1.750		325	351	377	402	424	451
1.000		326	352	378	403	425	452
1.250						426	453
1.500						427	454
1.000						428	454

NOTE: For notes and additions, please see sheet 2.
For interchangeability table see sheet 3.

(E) For changes see sheet 2.

This military standard is necessary for use by all Departments and Agencies of the Department of Defense. Solicitations for all new engineering and design applications and for repetitive use shall be made from this document.

APPROVED 4 MAR 54 REVISED 14 OCT 68 (E) 1 MAY 1969

MS 35308	TITLE	MILITARY STANDARD
MS 35308	SCREW, CAP, HEXAGON HEAD (FINISHED HEXAGON BOLT), STEEL, CORROSION RESISTING, PASSIVATED, UNF-2A	MS 35308
PROPOSED SPECIFICATION	APPENDIX (BCHS), 1, 2, 3 (in part, BUBX30 and BUBX30.1)	SHEET 1 OF 1

DD FORM 672-1 (Continued)

FORWARD SECTION OF THE DRAWING AND SPECIFICATIONS

TABLE II							5305
NOMINAL SIZE		1/8	3/8	7/8	1	1-1/8	1-1/4
R THREAD UNF-2A		1A	1B	1C	1D	1E	1F
D BODY DIAMETER	MAX MIN	.6250 .6170	.7500 .7410	.8750 .8660	1.0000 .9900	1.1250 1.1140	1.2500 1.2390
F WIDTH ACROSS FLATS	MAX MIN	.9375 .9220	1.1250 1.1000	1.3125 1.2850	1.5000 1.4650	1.6875 1.6410	1.8750 1.8120
G WIDTH ACROSS CORNERS	MAX MIN	1.083 1.051	1.299 1.254	1.516 1.465	1.732 1.675	1.949 1.859	2.165 2.066
H HEAD HEIGHT	MAX MIN	.403 .378	.483 .455	.563 .531	.627 .591	.718 .658	.813 .749
R RADIUS	MAX MIN	.045 .020	.045 .020	.065 .040	.095 .060	.095 .060	.095 .060
MIN TENSILE STRENGTH - LBS (E)		20,450	26,100	33,600	46,400	59,900	71,100

LENGTH	TOLERANCE		DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.
	SIZE 3/4 AND UNDER	SIZE 7/8 AND OVER						
.625	±.031	±.062	455	479	502	524		
.750			456	480	503			
.875			457	481				
1.000			458					
1.125			459	482	504	525	545	
1.250			460	483	505	526	546	565
1.375	±.062	±.125	461	484	506	527	547	566
1.500			462	485	507	528	548	567
1.750			463	486	508	529	549	568
2.000			464	487	509	530	550	569
2.250			465	488	510	531	551	570
2.500			466	489	511	532	552	571
2.750			467	490	512	533	553	572
3.000			468	491	513	534	554	573
3.250			469	492	514	535	555	574
3.500	±.094	±.188	470	493	515	536	556	575
3.750			471	494	516	537	557	576
4.000			472	495	517	538	558	577
4.250			473	496	518	539	559	578
4.500			474	497	519	540	560	579
4.750			475	498	520	541	561	580
5.000			476	499	521	542	562	581
5.250			477	500	522	543	563	582
5.500			478	501	523	544	564	583

NOTES:

1. MATERIAL: Corrosion-resisting steel, 300 series, in accordance with procurement specification.
2. PROTECTIVE COATING: Passivated in accordance with procurement specification.
3. MAGNETIC PERMEABILITY: These fasteners have a magnetic permeability of 2.0 maximum (air = 1.0) for a field strength of H = 200 oersteds using a magnetic indicator in accordance with MIL-I-17214.
4. THREADS: The threads shall be in accordance with Screw-Thread Standards for Federal Services, Handbook H28.
5. 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 for sizes up to and including 1 inch and 3-1/2 threads for sizes larger than 1 inch.
6. HEAD MARKING: Heads shall be marked in accordance with MIL-HDBK-131. Raised markings are preferred, stampings are acceptable.
7. DIMENSIONS: All dimensions are in inches, unless otherwise specified.
8. PART NUMBER: The MS part number consists of the MS number, plus the dash number.
Example: MS3530-301.
9. Based on minimum ultimate tensile strength of 80,000 p.s.i. for diameters thru 3/8 inch, and 70,000 p.s.i. for diameters over 3/8 inch. Breaking strengths are calculated by the stress areas indicated in Screw-Thread Standards for Federal Services, Handbook H28.
10. Referenced documents shall be of the issue in effect on date of invitations for bid.
11. For design feature purposes, this standard takes precedence over procurement documents referenced herein.

P.A. BU Other Code: NH R2	TITLE SCREW, CAP, HEXAGON HEAD (FINISHED HEXAGON BOLT) STEEL, CORROSION RESISTING, PASSIVATED, UNF-2A	MILITARY STANDARD MS35308
PROCUREMENT SPECIFICATION MIL-STD-883C	APPROVED (MIL-STD-1, 1.2, 2.) in part, MIL-STD-883C and MIL-STD-883D	SHEET 2 OF 2

DD FORM 672-1 (Continued)

REVISION: AF, IS, AT, MI, M, KSA, OS, RS
CSER: AS, ME, CH, WE, TD

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 existing use shall be made from this document.

APPROVED 4 MAR 54 REVISED 14 OCT 68 FOR CHANGES SEE SHEET 2.

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INTERCHANGEABILITY TABLE

The screws covered by dash numbers given in original issue of this standard are cancelled after 10 May 61. Use the dash numbers given in the preceding sheets of this standard. The cancelled screws cannot always replace the new screws and should be used until existing stocks are depleted. Use only the new screws for design and replacement. Replacement should be in accordance with this table.

TABLE III

DASH NUMBERS		DASH NUMBERS		DASH NUMBERS		DASH NUMBERS		DASH NUMBERS	
CANCELLED	NEW	CANCELLED	NEW	CANCELLED	NEW	CANCELLED	NEW	CANCELLED	NEW
MS35308	MS35308	MS35308	MS35308	MS35308	MS35308	MS35308	MS35308	MS35308	MS35308
1	101	10	138	113	413	172	472	229	529
2	102	19	139	116	416	173	473	230	530
3	103	60	160	117	417	174	474	231	531
4	104	61	161	118	418	175	475	232	532
5	105	62	162	119	419	176	476	233	533
6	106	63	163	120	420	177	477	234	534
7	107	64	164	121	421	178	478	235	535
8	108	65	165	122	422	179	479	236	536
9	109	66	166	123	423	180	480	237	537
0	110	67	167	124	424	181	481	238	538
1	111	68	168	125	425	182	482	239	539
2	112	69	169	126	426	183	483	240	540
3	113	70	170	127	427	184	484	241	541
4	114	71	171	128	428	185	485	242	542
5	115	72	172	129	429	186	486	243	543
6	116	73	173	130	430	187	487	244	544
7	117	74	174	131	431	188	488	245	545
8	118	75	175	132	432	189	489	246	546
9	119	76	176	133	433	190	490	247	547
0	120	77	177	134	434	191	491	248	548
1	121	78	178	135	435	192	492	249	549
2	122	79	179	136	436	193	493	250	550
3	123	80	180	137	437	194	494	251	551
4	124	81	181	138	438	195	495	252	552
5	125	82	182	139	439	196	496	253	553
6	126	83	183	140	440	197	497	254	554
7	127	84	184	141	441	198	498	255	555
8	128	85	185	142	442	199	499	256	556
9	129	86	186	143	443	200	500	257	557
0	130	87	187	144	444	201	501	258	558
1	131	88	188	145	445	202	502	259	559
2	132	89	189	146	446	203	503	260	560
3	133	90	190	147	447	204	504	261	561
4	134	91	191	148	448	205	505	262	562
5	135	92	192	149	449	206	506	263	563
6	136	93	193	150	450	207	507	264	564
7	137	94	194	151	451	208	508	265	565
8	138	95	195	152	452	209	509	266	566
9	139	96	196	153	453	210	510	267	567
0	140	97	197	154	454	211	511	268	568
1	141	98	198	155	455	212	512	269	569
2	142	99	199	156	456	213	513	270	570
3	143	100	200	157	457	214	514	271	571
4	144	101	201	158	458	215	515	272	572
5	145	102	202	159	459	216	516	273	573
6	146	103	203	160	460	217	517	274	574
7	147	104	204	161	461	218	518	275	575
8	148	105	205	162	462	219	519	276	576
9	149	106	206	163	463	220	520	277	577
0	150	107	207	164	464	221	521	278	578
1	151	108	208	165	465	222	522	279	579
2	152	109	209	166	466	223	523	280	580
3	153	110	210	167	467	224	524	281	581
4	154	111	211	168	468	225	525	282	582
5	155	112	212	169	469	226	526	283	583
6	156	113	213	170	470	227	527		
7	157	114	214	171	471	228	528		

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P.A. NO. One Copy SH B2	TITLE SCREW, CAP, HEXAGON HEAD (FINISHED HEXAGON BOLT), STEEL, CORROSION RESISTING, PASSIVATED, UNF-2A	MILITARY STANDARD MS35308
PROPOSED SPECIFICATION MIL-STD-883C	APPROVED (BULK), 1, 1.2, 2) in part, BULK30 and BULK30.1	WHEN J. 61

DD FORM 672-1 (Continued)

APPROVED 4 MAR 54 REVISED 14 OCT 60 (C) FOR CHANGES SEE SHEET 2.