



TABLE 1

NOMINAL SIZE			.250	.3125	.375	.4375
THREADS PER INCH (-2A)			20UNC	18UNC	16UNC	14UNC
D BODY DIAMETER	MAX	MIN	.260 .2127	.324 .2712	.389 .3287	.452 .3850
F WIDTH ACROSS FLATS	MAX	MIN	.475 .462	.500 .484	.5625 .544	.625 .603
G WIDTH ACROSS CORNERS	MAX	MIN	.540 .498	.707 .665	.795 .747	.884 .828
H HEAD HEIGHT	MAX	MIN	.188 .156	.220 .186	.264 .232	.316 .278
R RADIUS	MAX		.031	.031	.031	.031
TENSILE STRENGTH LBS-MIN			1,900	1,150	4,650	6,400
L LENGTH	TOLERANCE (A)		DASH NO.	DASH NO.	DASH NO.	DASH NO.
	SIZE .375 & UNDER	SIZE .4375				
.75	+.02	+.02	1	32	64	94
1.00	-.03	-.03	2	33	64	94
1.25			3	34	65	95
1.50	+.02	+.04	4	35	66	96
2.00	-.04	-.06	5	36	67	97
2.50			6	37	68	98
3.00			7	38	69	99
3.50	+.04	+.06	8	39	70	100
4.00	-.06	-.08	9	40	71	101
4.50			10	41	72	102
5.00	+.06	+.08	11	42	73	103
5.50	-.10	-.10	12	43	74	104
6.00			13	44	75	105
6.50			14	45	76	106
7.00			15	46	77	107
7.50			16	47	78	108
8.00			17	48	79	109
8.50			18	49	80	110
9.00			19	50	81	111
9.50			20	51	82	112
10.00			21	52	83	113
11.00			22	53	84	114
12.00	+.10	+.12	23	54	85	115
13.00	-.16	-.18	24	55	86	116
14.00			25	56	87	117
15.00			26	57	88	118
16.00			27	58	89	119
17.00			28	59	90	120
18.00			29	60	91	121
19.00			30	61	92	122
20.00			31	62	93	123

NOTES:

- MATERIAL:** Carbon steel, SAE Grade 1 in accordance with procurement specification, having an ultimate tensile strength of 60,000 psi-min.
- PROTECTIVE COATING:** Phosphate coated in accordance with type 2, class 2 of MIL-P-16232.
- THREADS:** Threads shall be in accordance with Screw-Thread Standards for Federal Services, Handbook H25.
- THREAD LENGTH:** Minimum thread length shall be twice the basic diameter plus 0.25 inch for lengths up to and including 6.00 inches and twice the basic diameter plus 0.50 inch for lengths over 6.00 inches. Bolts too short for the formula thread length shall be threaded as close to the head as practical.
- DIMENSIONS:** All dimensions are in inches unless otherwise specified.
- PART NUMBER:** The MS part number consists of the MS number, plus the dash number.
Example: MS35356-1
- Referenced documents shall be of the issue in effect on date of invitations for bid.
- For design feature purposes, this standard takes precedence over procurement documents referenced herein.

(A) For changes see sheets 1 and 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.
 REVIEWER: IS, ME, PM, USER: AS, AT, JAV, MC, OS, 1D

APPROVED 24 JAN 1955 REVISED (A) 6 OCT 1971

P.A. WC Other Cast SM 82	TITLE BOLT, MACHINE, SQUARE HEAD, STEEL, PHOSPHATE COATED, UNC-2A	MILITARY STANDARD MS 35356
PROCUREMENT SPECIFICATION FF-B-575 (A)	SUPERSEDES:	SHEET 1 OF 2

TABLE I - Continued										FED. SUP CLASS 5306	
NOMINAL SIZE		.500	.625	.750	.875	1.000	1.125	1.250			
THREADS PER INCH (-2A)		13UNC	11UNC	10UNC	9UNC	8UNC	7UNC	7UNC			
D	BODY DIAMETER	MAX	.515	.642	.768	.895	1.022	1.149	1.277		
		MIN	.4435	.5589	.6773	.7946	.9100	1.0226	1.1476		
F	WIDTH ACROSS FLATS	MAX	.750	.9375	1.125	1.3125	1.500	1.6875	1.875		
		MIN	.725	.906	1.088	1.269	1.450	1.631	1.812		
G	WIDTH ACROSS CORNERS	MAX	1.061	1.326	1.591	1.856	2.121	2.386	2.652		
		MIN	.995	1.244	1.494	1.742	1.991	2.239	2.469		
H	HEAD HEIGHT	MAX	.348	.444	.524	.620	.684	.780	.876		
		MIN	.308	.400	.476	.568	.628	.720	.812		
R	RADIUS	MAX	.031	.062	.062	.062	.093	.093			
TENSILE STRENGTH LBS-MIN			8,500	13,600	20,000	27,700	36,400	45,800	58,100		
L LENGTH	TOLERANCE				DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	
	SIZE .500	SIZE .625 ± .750	SIZE .875 ± 1.000	SIZE 1.125 ± 1.250							
1.00	+ .02				124						
1.25	- .03				125						
1.50					126	159	192	230	269		
2.00	+ .04	+ .06	+ .06	± .12	127	160	193	231	269		
2.50	- .06	- .06	- .10		128	161	194	232	270		
3.00					129	162	195	233	271	306	
3.50	+ .06	+ .08	+ .10	± .16	130	163	196	234	272	307	
4.00	- .06	- .10	- .14		131	164	197	235	273	308	
4.50					132	165	198	236	274	309	
5.00	+ .06	± .10	+ .12	± .18	133	166	199	237	275	310	
5.50	- .10		- .16		134	167	200	238	276	311	
6.00					135	168	201	239	277	312	
6.50					136	169	202	240	278	313	
7.00					137	170	203	241	279	314	
7.50					138	171	204	242	280	315	
8.00					139	172	205	243	281	316	
8.50					140	173	206	244	282	317	
9.00					141	174	207	245	283	318	
9.50					142	175	208	246	284	319	
10.00					143	176	209	247	285	320	
11.00					144	177	210	248	286	321	
12.00					145	178	211	249	287	322	
13.00					146	179	212	250	288	323	
14.00					147	180	213	251	289	324	
15.00					148	181	214	252	290	325	
16.00					149	182	215	253	291	326	
17.00	+ .12	+ .14	+ .16	± .22	150	183	216	254	292	327	
18.00	- .18	- .18	- .20		151	184	217	255	293	328	
19.00					152	185	218	256	294	329	
20.00					153	186	219	257	295	330	
21.00					154	187	220	258	296	331	
22.00					155	188	221	259	297	332	
23.00					156	189	222	260	298	333	
24.00					157	190	223	261	299	334	
25.00					158	191	224	262	300	335	
26.00							225	263	301	336	
27.00							226	264	302	337	
28.00							227	265	303	338	
29.00							228	266	304	339	
30.00							229	267	305	340	

REVISION: 1S, ME, M, USER: AS, AT, AV, MC, OS, YD
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PROCUREMENT SPECIFICATION FF-H-575 (A)	SUPERSEDES:	SHEET 2 OF

DD FORM 672-1 (Continued)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE