

REVIEWER: AT, AV, IS, MU, NS
USER: MC, ME, MI, OS, YD

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.

				FED. SUP CLASS 5305							
				OPTIONAL DESIGN							
NOMINAL SIZE				.250	.3125	.375	.4375	.500	.5625	.625	
THREADS PER INCH (UNF-2A)				28	24	24	20	20	18	18	
D BODY DIAMETER				MAX MIN	.250 .245	.3125 .3065	.375 .369	.4375 .4305	.500 .493	.5625 .5545	.625 .617
F WIDTH ACROSS FLATS				MAX MIN	.4375 .4280	.500 .489	.5625 .5510	.625 .612	.750 .736	.8125 .7980	.9375 .9220
G WIDTH ACROSS CORNERS				MAX MIN	.505 .486	.577 .557	.650 .628	.722 .698	.866 .840	.938 .910	1.083 1.051
H HEAD HEIGHT				MAX MIN	.163 .150	.211 .195	.243 .226	.291 .272	.323 .302	.371 .348	.403 .378
R RADIUS				MAX MIN	.025 .015	.025 .015	.025 .015	.025 .015	.025 .015	.045 .020	.045 .020
TENSILE STRENGTH (LBS-MIN)				2,180	3,480	5,260	7,120	9,590	12,180	15,360	
L LENGTH	TOLERANCE			DASH NO.	DASH NO. *	DASH NO.	DASH NO. *	DASH NO.	DASH NO. *	DASH NO.	
	SIZE .375 AND UNDER	SIZES .4375 AND .500	SIZES .5625 AND .625								
.375				301	327	353					
.438				302*	328	354*					
.500				303	329	355	379	404			
.562	+.000	+.000	+.000	304*	330	356*	381	405*	430		
.625	-.030	-.030	-.030	305	331	357	382	406	431	455	
.750				306	332	358	383	407	432	456	
.875				307	333	359	384	408	433	457	
1.000				308	334	360	385	409	434	458	
1.125				309*	335	361*	386	410*	435	459*	
1.250				310	336	362	387	411	436	460	
1.375				311*	337	363*	388	412*	437	461*	
1.500	+.000	+.000	+.000	312	338	364	389	413	438	462	
1.750	-.040	-.060	-.080	313	339	365	390	414	439	463	
2.000				314	340	366	391	415	440	464	
2.250				315	341	367	392	416	441	465	
2.500				316	342	368	393	417	442	466	
2.750				317	343	369*	394	418*	443	467*	
3.000	+.000	+.000	+.000	318	344	370	395	419	444	468	
3.250	-.060	-.080	-.100	319*	345	371*	396	420*	445	469*	
3.500				320	346	372	397	421	446	470	
3.750				321*	347	373*	398	422*	447	471*	
4.000				322	348	374	399	423	448	472.	
4.250				323*	349	375*	400	424*	449	473*	
4.500				324	350	376	401	425	450	474	
4.750	+.000	+.000	+.000	325*	351	377*	402	426*	451	475*	
5.000	-.100	-.100	-.100	326	352	378	403	427	452	476	
5.500								428	453	477	
6.000								429	454	478	
<p>* INACTIVE FOR NEW DESIGN - Dash numbers 327 thru 352, 379 thru 403, 430 thru 454 and those with an (*) are inactive for new design.</p>											
<p>(B) For changes see sheets 1 and 2.</p>											
P.A. WC Other Cust SH 82		TITLE SCREW, CAP, HEXAGON HEAD - NAVAL BRASS, PLAIN FINISH, UNF-2A					MILITARY STANDARD MS 35310				
PROCUREMENT SPECIFICATION FF-S-65		SUPERSEDES:					SHEET 1 OF 2				

FED. SUP CLASS

5305

NOMINAL SIZE		.750	.875	1.000	1.125	1.250
THREADS PER INCH (UNF-2A)		16	14	12	12	12
D BODY DIAMETER	MAX MIN	.750 .741	.875 .866	1.000 .990	1.125 1.114	1.250 1.239
F WIDTH ACROSS FLATS	MAX MIN	1.125 1.100	1.3125 1.2850	1.500 1.469	1.6875 1.6310	1.875 1.812
G WIDTH ACROSS CORNERS	MAX MIN	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	.483 .455	.563 .531	.627 .591	.718 .658	.813 .749
R RADIUS	MAX MIN	.045 .020	.065 .040	.095 .060	.095 .060	.095 .060
TENSILE STRENGTH (LBS-MIN)		22,380	30,540	39,780	49,640	62,200
L LENGTH	TOLERANCE			DASH NO.	DASH NO. *	DASH NO.
	SIZE .750	SIZES .875 AND 1.000	SIZES 1.125 AND 1.250			
.750	+ .000	+ .000	----	479		
.875	- .030	- .040		480	502	
1.000				481	503	524
1.125				482*	504	525*
1.250				483	505	526
1.375				484*	506	527*
1.500	+ .000	+ .000	+ .000	485	507	528
1.750	- .080	- .100	- .120	486	508	529
2.000				487	509	530
2.250				488*	510	531*
2.500				489	511	532
2.750				490*	512	533*
3.000				491	513	534
3.250	+ .000	+ .000	+ .000	492*	514	535*
3.500	- .100	- .140	- .160	493	515	536
3.750				494*	516	537*
4.000				495	517	538
4.250				496*	518	539*
4.500				497	519	540
4.750	+ .000	+ .000	+ .000	498*	520	541*
5.000	- .100	- .160	- .180	499	521	542
5.500				500	522	543
6.000				501	523	544

- (B) * INACTIVE FOR NEW DESIGN - Dash numbers 502 thru 523, 545 thru 564 and those with an (*) are inactive for new design.

NOTES:

- (B) 1. **MATERIAL:** Naval Brass in accordance with QQ-B-637, alloy no. 464, half-hard or alloy no. 462, hard having a minimum ultimate tensile strength of 60,000 PSI for sizes thru 1.000, and 58,000 PSI for sizes over 1.000.
2. **PROTECTIVE COATING:** None.
3. **THREADS:** The threads shall be in accordance with Screw Thread Standards for Federal Services, Handbook H28.
4. **DIMENSIONS:** All dimensions are in inches, unless otherwise specified.
5. **THREAD LENGTH:** Minimum thread length shall be twice the diameter plus 0.250 inch. The tolerance shall be plus 0.188 inch or 2-1/2 threads, whichever is greater. On screws that are too short for minimum thread lengths, the distance from the head bearing surface to the first complete thread shall not exceed the length of 2-1/2 threads for sizes thru 1.000 and 3-1/2 threads for sizes over 1.000.
6. **PART NUMBER:** The MS part number consists of the MS number, plus the dash number.
Example: MS35310-301
7. Referenced documents shall be of the issue in effect on date of invitations for bid.
8. For design feature purposes, this standard takes precedence over procurement documents referenced herein.

INTERCHANGEABILITY

The former dash numbers of MS35310 (1 thru 283) are cancelled and superseded by the present dash numbers of MS35310 (301 thru 583 respectively). Use only the present dash numbers for new design.

P.A. WC Other Cost SH 82	TITLE SCREW, CAP, HEXAGON HEAD- NAVAL BRASS, PLAIN FINISH, UNF-2A	MILITARY STANDARD MS 35310
PROCUREMENT SPECIFICATION FF-5-85	SUPERSEDES:	SHEET 2 OF 2

DD FORM 1 SEP 77 672-1 (Continued)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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REVIEWER: AT, AV, IS, MC, NS
1 SER: MC, ME, MI, OS, YD

APPROVED 4 MAR 1934 REVISED (A) 30 SEP 1966 (B) FOR CHANGES SEE SHEETS 1 AND 2.