

This military standard is approved 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.

REVISOR: AV, EA, LS, AT, EL, MC, ME, MU, PA, SM, WT

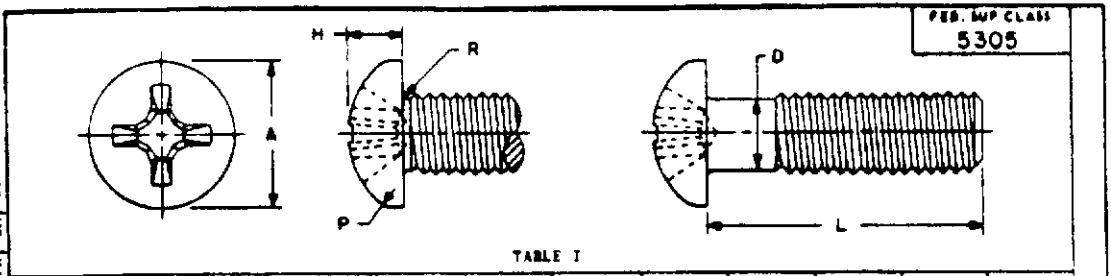


TABLE I

NOMINAL SIZE		.086	.112	.138	.164	.190	.250	.3125	.375
THREADS PER INCH (UNF-2A)		64	48	40	36	32	28	24	24
D BODY DIAMETER	MAX	.0860	.1120	.1380	.1640	.1900	.2500	.3125	.3750
	MIN	.0733	.0954	.1184	.1424	.1658	.2225	.2806	.3430
A HEAD DIAMETER	MAX	.167	.219	.270	.322	.373	.492	.615	.740
	MIN	.155	.205	.256	.306	.357	.473	.594	.716
H HEAD HEIGHT	MAX	.062	.080	.097	.115	.133	.175	.218	.261
	MIN	.053	.070	.087	.103	.122	.162	.203	.244
P HEAD RADIUS	REF MIN	.010	.010	.015	.015	.020	.035	.040	.040
R FILLET RADIUS	MAX	.013	.017	.021	.025	.029	.038	.047	.056
DRIVER SIZE		1	1	2	2	2	3	4	4
TENSILE STRENGTH (LBS-MIN) (B)		240	400	620	910	1240	2250	3600	5430
L LENGTH	TOLERANCE	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.
.12		1	10	21	36				
.19		2	11	22	37				
.25		3	12	23	38	51			
.31		4	13	24	39	52	66		
.36	+.00	5	14	25	40	53	67	80	
.44	-.03	6	15	26	41	54	68	81	
.50		7	16	27	42	55	69	82	93
.62		8	17	28	43	56	70	83	94
.75		9	18	29	44	57	71	84	95
.88			19	30	45	58	72	85	96
1.00			20	31	46	59	73	86	97
1.25				32	47	60	74	87	98
1.50	+.00			33	48	61	75	88	99
1.75	-.06			34	49	62	76	89	100
2.00				35	50	63	77	90	101
2.25						64	78	91	102
2.50	+.00					65	79	92	103
2.75	-.09								104
3.00									105

- NOTES:
- MATERIAL:** Aluminum alloy, 2024, in accordance with QQ-A-200/3 or QQ-A-225/6. The minimum ultimate tensile strength shall be 62,000 PSI.
  - PROTECTIVE COATING:** Anodized in accordance with MIL-A-8625, Type I or II, Class 1.
  - THREADS:** The threads shall be in accordance with Screw-Thread Standards for Federal Services, Handbook H28.
  - THREAD LENGTH:** Full form threads shall extend to within 2 threads or less of head bearing surface for lengths thru 2.00 inches. Longer lengths shall have a minimum full form thread length of 1.50 inches.
  - RECESS:** The recess shall be in accordance with MS9006.
  - DIMENSIONS:** All dimensions are in inches.
  - PART NUMBER:** The MS part number consists of the MS number, plus the dash number.  
Example: MS35219-1.
  - 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.

(B) FOR CHANGES SEE SHEET 1.

PA	WC	TITLE	MILITARY STANDARD
Other Cont	YP	SCREW, MACHINE-PAN HEAD, CROSS-RECESSED, ALUMINUM ALLOY, UNF-2A	MS 35219
FF-S-92		SUPERSEDES MS35236, MS35314 and in part: MS35357, MS35359 thru MS35362, MS35364 thru MS35366, AN320 and AN326.	SHEET 1 OF 3

APPROVED 25 JUN 1953 REVISED (A) 17 DEC 1962 (B) 12 JUN 1974

TABLE II  
INTERCHANGEABILITY

Screws covered by dash numbers given in MS35236 and MS35314 are canceled after 17 December 1962. The canceled screws cannot always replace the superseding screws and should be used until existing stocks are depleted. Use only the superseding screws for new design and engineering. Replacement shall be in accordance with this table.

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USER: AT, EL, MC  
ME, MU, PA, SH, WT

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PART NUMBER		PART NUMBER		PART NUMBER			PART NUMBER		
CANCELED	SUPERSEDING	CANCELED	SUPERSEDING	CANCELED		SUPERSEDING	CANCELED		SUPERSEDING
MS35236	MS35219	MS35236	MS35219	MS35236	MS35314	MS35219	MS35236	MS35314	MS35219
1	1	39	36	77	1	67		37	**
2	2	40	37	78	2	68	100	38	88
3	3	41	38	79	3	69	101	39	89
4	4	42	39	**	4	**	102	40	90
5	5	43	40	80	5	70	103	41	91
6	6	44	41	81	6	71	104	42	92
7	7	45	42	82	7	72	105	43	**
8	8	46	43	83	8	73	106	THRU	**
9	9	47	44	**	9	**	**	54	**
10	10	48	45	84	10	74	107	55	93
11	10	49	46	**	11	**	**	56	**
12	11	50	47	85	12	75	108	57	94
13	12	51	48	86	13	76	109	58	95
14	13	52	49	87	14	77	110	59	96
15	14	53	50	88	15	78	111	60	97
16	15	54	**	89	16	79	**	61	**
17	16	55	**	90	17	**	112	62	98
18	17	56	**	91	THRU	**	**	63	**
19	18	57	**	**	26	**	113	64	99
20	19	58	**	92	27	80	114	65	100
21	20	59	51	93	28	81	115	66	101
22	**	60	52	94	29	82	116	67	102
23	**	61	53	**	30	**	117	68	103
24	21	62	54	95	31	83	118	69	104
25	22	63	55	96	32	84	119	70	105
26	23	64	56	97	33	85	**	71	**
27	24	65	57	98	34	86	THRU	THRU	**
28	25	66	58	**	35	**	283	**	**
29	26	67	59	99	36	87	**	**	**
30	27	68	60	**	**	**	**	**	**
31	28	69	61	**	**	**	**	**	**
32	29	70	62	**	**	**	**	**	**
33	30	71	63	**	**	**	**	**	**
34	31	72	64	**	**	**	**	**	**
35	32	73	65	**	**	**	**	**	**
36	33	74	66	**	**	**	**	**	**
37	34	75	67	**	**	**	**	**	**
38	35	76	68	**	**	**	**	**	**

\*\* No replacement

APPROVED 25 JUN 1953 REVISED 4 17 DEC 1962 FOR CHANGES SEE SHEET 1

P.A. 6C	TITLE	MILITARY STANDARD
Other Cont. TD 82	SCREW, MACHINE - PAN HEAD, CROSS-RECESSED, ALUMINUM ALLOY, UNF-2A	MS35219
PROCUREMENT SPECIFICATION PF-S-72	SUPERSEDED MS35236, MS35314 and in part, MS35357, MS35219 thru MS35362, MS35364 thru MS35366, AN520 and AN526.	SHEET 2 OF