

FED. SUP CLASS  
5305

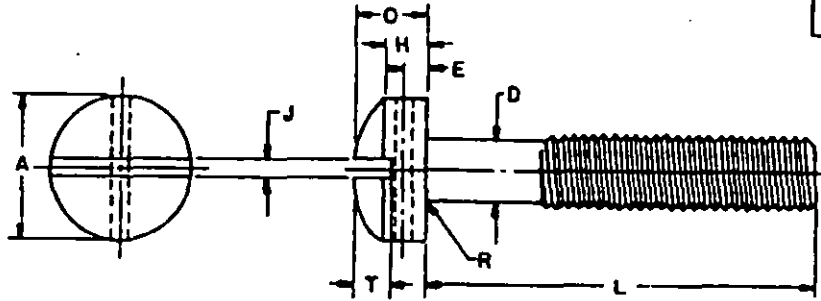


TABLE I

NOMINAL SIZE	(#2)	(#4)	(#6)	(#8)	(#10)	(1/4)	(5/16)	(3/8)	
THEADS PER INCH, UNC-2A	56	40	32	32	24	20	18	16	
D BODY DIAMETER	MAX MIN	.0860 .0717	.1120 .0925	.1380 .1141	.1640 .1399	.1900 .1586	.2500 .2127	.3125 .2712	.3750 .3287
A HEAD DIAMETER	MAX MIN	.140 .124	.183 .166	.226 .208	.270 .250	.313 .292	.414 .389	.518 .490	.622 .590
H HEAD SIDE HEIGHT	MAX MIN	.062 .055	.079 .072	.096 .089	.113 .106	.130 .123	.170 .161	.211 .201	.253 .242
O TOTAL HEAD HEIGHT	MAX MIN	.083 .070	.107 .094	.132 .118	.156 .141	.180 .165	.237 .219	.295 .276	.355 .333
J SLOT WIDTH	MAX MIN	.031 .023	.039 .031	.048 .039	.054 .045	.060 .050	.075 .064	.084 .072	.094 .081
T SLOT DEPTH	MAX MIN	.030 .022	.038 .030	.045 .035	.065 .054	.075 .064	.102 .087	.130 .110	.154 .134
E DRILL LOCATION	NOM	.026	.035	.043	.043	.043	.062	.078	.094
DRILLED HOLE SIZE	NOM	.031	.037	.046	.046	.046	.062	.070	.070
R RADIUS	MAX	.013	.017	.021	.025	.029	.038	.047	.056
TENSILE STRENGTH, LB-MIN		210	340	520	800	1000	1610	2950	4420
L LENGTH	TOLERANCE	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.
.125		1	11	24	39				
.188		2	12	25	40				
.250		3	13	26	41	58			
.312		4	14	27	42	59	76		
.375		5	15	28	43	61	77	92	
.438	+0	6	16	29	44	62	78	93	
.500	-.031	7	17	30	45	63	79	94	107
.625		8	18	31	46	64	80	95	108
.750		9	19	32	47	65	81	96	109
.875		10	20	33	48	66	82	97	110
1.000			21	34	49	67	83	98	111
1.250			22	35	50	68	84	99	112
1.500	+0		23	36	51	69	85	100	113
1.750	-.062			37	52	70	86	101	114
2.000				38	53	71	87	102	115
2.250					54	72	88	103	116
2.500	+0				55	73	89	104	117
2.750	-.094				56	74	90	105	118
3.000					57	75	91	106	119

APPROVED 8 FEB 1964. REVISED (A) 18 JUN 1962 (B) 29 JUL 1968 (C) 14 JUN 1978

Military standard is approved for use by all Departments and Agencies of the Department of Defense. Deviation for all new engineering and design applications and for repetitive use shall be made from this document, even number.

(C) ENTIRE STANDARD REVISED

P.A. VC	TITLE	MILITARY STANDARD
Other Code AS 82	SCREW, MACHINE-DRILLED FILLISTER HEAD, SLOTTED, BRASS, BLACK CHEMICAL FINISH, UNC-2A	MS35273
PROCUREMENT SPECIFICATION FT-S-92	SUPERSEDES: BSSEDT, BCP23, BCP21L, BCP24 AND IN PART AN300, BSSEBN, BSSEBN, AND BSCKI.	SHEET 1 OF 4

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NOTES:

1. **MATERIAL:** Brass, in accordance with QQ-B-626 or QQ-W-321 having minimum ultimate tensile strength of 57,000 PSI.
2. **PROTECTIVE COATING:** Black Chemical Finish in accordance with MIL-F-495.
3. **THREADS:** The threads shall be in accordance with Screw-Thread Standards for Federal Services, Handbook H-28.
4. **THREAD LENGTHS:** Screws 2.00 inches long and shorter shall have complete threads extending to within two threads of the head, or closer if practicable. Longer screws shall have a minimum thread length of 1.50 inches.
5. **DIMENSIONS:** All dimensions are in inches unless otherwise specified.
6. **PART NUMBER:** The MS part number consists of the MS number, plus the dash number.  
Example: MS35273-1
7. Drilled hole is to be approximately at right angles to the slot and may be permitted to break through the bottom of the slot. All sharp edges shall be removed.
8. Referenced documents shall be of the issue in effect on date of invitation for bid.
9. For design feature purposes, this standard takes precedence over procurement documents referenced herein.

REVIEW: EA, ME, EA, RA, RA, ME, AT  
USCIB: SA, SA, SA, SA, SA, SA, SA, SA

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, over all others.

APPROVED 9 FEB 1954 REVISED (A) 18 JUN 1962 (B) 29 JUL 1965 (C) FOR CHANGES SEE SHEET 1.

P.A. WC Other Code 82	TITLE	MILITARY STANDARD
	SCREW, MACHINE-DRILLED FILLISTER HEAD, SLOTTED, BRASS, BLACK CHEMICAL FINISH, UNC-2A	MS35273
PROCUREMENT SPECIFICATION FF-S-92	SUPERSEDES: BMS35273, BOPK3, BOPK3.1, BOPK4, AND CO IN PART, BMS35273, BMS35273 AND BOPK1	SHEET 2 OF 4

**TABLE II  
INTERCHANGEABILITY TABLE**

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The screws covered by the dash numbers given in MS35271 and in part AN500 are cancelled/inactivated after the approval date of revision B indicated on this document. Use the dash numbers given in the preceding sheets. 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 shall be in accordance with this table.

PART NUMBERS			PART NUMBERS		
CANCELLED		SUPERSEDED BY	CANCELLED		SUPERSEDED BY
MS35271	AN500	MS35273	MS35271	AN500	MS35273
1		1	61	AB10-6	61
2	AB2-3	2	62	AB10-7	62
3	AB2-4	3	63	AB10-8	63
4	AB2-5	4	64	AB10-10	64
5	AB2-6	5	65	AB10-12	65
6	AB2-7	6	66	AB10-14	66
7	AB2-8	7	67	AB10-16	67
8	AB2-10	8		AB10-18	No Replacement
9	AB2-12	9	68	AB10-20	68
10		10		AB10-22	No Replacement
	AB3-3 thru AB3-8	No Replacement	69	AB10-24	69
	AB3-10	No Replacement	70	AB10-28	70
	AB3-12	No Replacement	71	AB10-32	71
11		11	72		72
12	AB4-3	12	73	AB10-40	73
13	AB4-4	13	74		74
14	AB4-5	14	75	AB10-48	75
15	AB4-6	15	76		76
16	AB4-7	16	77	AB416-6	77
17	AB4-8	17	78	AB416-7	78
18	AB4-10	18	79	AB416-8	79
19	AB4-12	19	80	AB416-10	80
20		20	81	AB416-12	81
21		21	82	AB416-14	82
22		22	83	AB416-16	83
23		23		AB416-18	No Replacement
	AB5-3 thru AB5-8	No Replacement	84	AB416-20	84
	AB5-10	No Replacement		AB416-22	No Replacement
	AB5-12	No Replacement	85	AB416-24	85
24		24	86	AB416-28	86
25	AB6-3	25	87	AB416-32	87
26	AB6-4	26	88		88
27	AB6-5	27	89	AB416-40	89
28	AB6-6	28	90		90
29	AB6-7	29	91	AB416-48	91
30	AB6-8	30	92	AB516-6	92
31	AB6-10	31	93	AB516-7	93
32	AB6-12	32	94	AB516-8	94
33	AB6-14	33	95	AB516-10	95
34	AB6-16	34	96	AB516-12	96
	AB6-18	No Replacement	97	AB516-14	97
35	AB6-20	35	98	AB516-16	98
	AB6-22	No Replacement		AB516-18	No Replacement
36	AB6-24	36	99	AB516-20	99
37	AB6-28	37		AB516-22	No Replacement
38	AB6-32	38	100	AB516-24	100
39		39	101	AB516-28	101
40		40	102	AB516-32	102
41	AB8-4	41	103		103
42	AB8-5	42	104	AB516-40	104
43	AB8-6	43	105		105
44	AB8-7	44	106	AB516-48	106
45	AB8-8	45		AB616-6	No Replacement
46	AB8-10	46		AB616-7	No Replacement
47	AB8-12	47	107	AB616-8	107
48	AB8-14	48	108	AB616-10	108
49	AB8-16	49	109	AB616-12	109
	AB8-18	No Replacement	110	AB616-14	110
	AB8-20	50	111	AB616-16	111
	AB8-22	No Replacement		AB616-18	No Replacement
51	AB8-24	51	112	AB616-20	112
52	AB8-28	52		AB616-22	No Replacement
53	AB8-32	53	113	AB616-24	113
54		54	114	AB616-28	114
55		55	115	AB616-32	115
56		56	116		116
57		57	117	AB616-40	117
58		58	118		118
59	AB10-4	59	119	AB616-48	119
60	AB10-5	60			

APPROVED FEB 9, 1954 REVISED (B) 29 JUL 1945 (C) FOR CHANGES SEE SHEET 1.

F.A. VC	TITLE	MILITARY STANDARD
Other Cont. AS R2	SCREW, MACHINE - DRILLED FILLISTER HEAD, SLOTTED, BRASS, BLACK CHEMICAL FINISH, UNC-2A	<b>MS35273</b>
PROCUREMENT SPECIFICATION FF-S-92	SUPERSEDES: MS35271, BOP13, BOPK3.1, BOPK4, AN500 IN PART, MS35284, MS35364 AND BOPK1.	SHEET 3 OF 4

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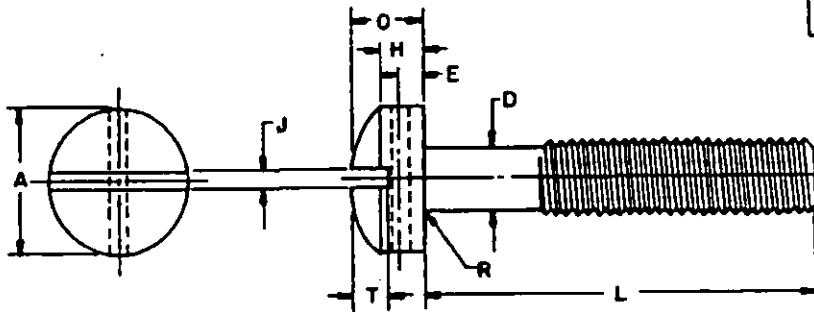


TABLE III  
METRIC TRANSLATION OF TABLE I

NOMINAL SIZE	MM	2.184	2.845	3.505	4.166	4.826	6.350	7.938	9.525
PITCH		.45	.64	.79	.79	1.06	1.27	1.41	1.59
D BODY DIAMETER	MAX MIN	2.184 1.621	2.845 2.350	3.505 2.898	4.166 3.553	4.826 4.028	6.350 5.403	7.938 6.888	9.525 8.349
A HEAD DIAMETER	MAX MIN	3.556 3.150	4.648 4.216	5.740 5.283	6.858 6.350	7.950 7.417	10.516 9.681	13.157 12.446	15.799 14.986
H HEAD SIDE HEIGHT	MAX MIN	1.575 1.397	2.007 1.829	2.438 2.261	2.870 2.692	3.302 3.124	4.318 4.089	5.359 5.105	6.426 6.147
O TOTAL HEAD HEIGHT	MAX MIN	2.108 1.778	2.718 2.388	3.353 2.997	3.962 3.581	4.572 4.191	6.020 5.563	7.493 7.010	9.017 8.458
J SLOT WIDTH	MAX MIN	.787 .584	.991 .787	1.219 .991	1.372 1.143	1.524 1.270	1.905 1.626	2.134 1.829	2.388 2.057
T SLOT DEPTH	MAX MIN	.762 .559	.965 .762	1.143 .889	1.651 1.372	1.905 1.626	2.591 2.210	3.302 2.794	3.912 3.404
E DRILL LOCATION	NOM	.660	.889	1.092	1.092	1.092	1.575	1.981	2.388
DRILLED HOLE SIZE	NOM	.787	.940	1.168	1.168	1.168	1.575	1.778	1.778
R RADIUS	MAX	.330	.432	.533	.635	.717	.965	1.194	1.422
TENSILE STRENGTH, KN-MIN		.941	1.523	2.330	3.585	4.482	6.312	13.401	19.811
L LENGTH	TOLERANCE	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.
3.175		1	11	24	39				
4.775		2	12	25	40	58			
6.350		3	13	26	41	59			
7.925		4	14	27	42	60	76		
9.525		5	15	28	43	61	77	92	
11.125	+0	6	16	29	44	62	78	93	
12.700	-.787	7	17	30	45	63	79	94	107
15.875		8	18	31	46	64	80	95	108
19.050		9	19	32	47	65	81	96	109
23.325		10	20	33	48	66	82	97	110
25.400			21	34	49	67	83	98	111
31.750			22	35	50	68	84	99	112
38.100	+0		23	36	51	69	85	100	113
44.450	-1.575			37	52	70	86	101	114
50.800				38	53	71	87	102	115
57.150					54	72	88	103	116
63.500	+0				55	73	89	104	117
69.850	-2.388				56	74	90	105	118
76.200					57	75	91	106	119

APPROVED 9 FEB 1954 REVISED 18 JUN 1962 ( ) 29 JUL 1965 IN CHANGES SEE SHEET I.

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, unless otherwise stated.

NOTE: All dimensions are in millimetres (mm), unless otherwise specified, and are based on an approximate conversion factor of 25.4mm equals one inch.

P.A. VC Other Code 86 82	TITLE <b>SCREW, MACHINE-DRILLED FILLISTER HEAD, SLOTTED, BRASS, BLACK CHEMICAL FINISH, UNC-2A</b>	MILITARY STANDARD <b>MS35273</b>
PROCUREMENT SPECIFICATION FF-S-92	SUPERSEDES: MS3527, MS3527, MS3527, MS3527, MS3527, MS3527, MS3527, MS3527, MS3527, MS3527	SHEET 4 OF 4