



ALL RECESS DIMENSIONS ARE CONTROLLED BY THIS DIMENSION - SEE PROCUREMENT SPECIFICATION

NOMINAL SIZE	D		2 (.086)	4 (.112)	6 (.138)	8 (.164)
THREADS PER INCH			56NC	40NC	32NC	32NC
BODY DIAMETER	D <sub>e</sub>	Max Min	.0860 .0717	.1120 .0925	.1380 .1141	.1640 .1399
HEAD DIAMETER	A	Max Min	.167 .155	.219 .205	.270 .256	.322 .306
HEAD HEIGHT	H	Max Min	.062 .053	.080 .070	.097 .087	.115 .105
RECESS DIAMETER	M	Max Min	.101 .091	.119 .109	.163 .153	.179 .169
RECESS DEPTH	N	Max Min	.071 .061	.090 .080	.111 .101	.127 .117
RECESS WIDTH	J	Min	.017	.018	.028	.030
RADIUS	R	Max	.013	.018	.023	.023
DRIVER SIZE			1	1	2	2
LENGTH	L	Tolerance	Dash Number	Dash Number	Dash Number	Dash Number
THREADS SHALL EXTEND TO WITHIN 2 THREADS OF THE BEARING SURFACE OF THE HEAD, OR CLOSER IF PRACTICABLE	1/8		1	10	21	36
	3/16		2	11	22	37
	1/4		3	12	23	38
	5/16		4	13	24	39
	3/8	+0 -1/32	5	14	25	40
	7/16		6	15	26	41
	1/2		7	16	27	42
	5/8		8	17	28	43
	3/4	+0 -1/16	9	18	29	44
	7/8			19	30	45
	1-1/4			20	31	46
	1-1/2				32	47
	1-3/4				33	48
	2				34	49
				35	50	
Minimum complete thread length of 1-3/4						

Ⓐ CANCELLED  
SEE SHEET 2

**MATERIAL:** Corrosion Resisting Steel, Specification QQ-S-763, Class B, Type C or Class G, Type C.

**FINISH:** Passivated - by immersion for a period of 20 minutes in a solution containing 15 percent (by weight) of nitric acid at room temperature followed by a thorough rinse in hot water.

**THREADS:** The threads shall be in accordance with Screw-Thread Standards for Federal Services, Handbook H-28.

**NOTES:**

- (1) Recess shall conform with Type III, Design I, of procurement specification.
- (2) Referenced documents of issue in effect on date of invitation for bids shall apply.
- (3) In case of conflict with any referenced document, this standard will govern.
- (4) The MS part number consists of the MS sheet number, plus the dash number. Example: MS35216-1.

Ⓐ For changes see sheets 1 and 2.

REVISED 12 DEC 65  
APPROVED 25 JUNE 53

P.A. WC Other Cust Ships NOANA	TITLE SCREW, MACHINE, PAN HEAD, CROSS-RECESSED, CORROSION RESISTING STEEL, PASSIVATED, NC-2A AND UNC-2A	MILITARY STANDARD MS 35216
PROCUREMENT SPECIFICATION PP-S-92	SUPERSEDES:	SHEET 1 OF 2

FED. SUP CLASS  
5305

NOMINAL SIZE	D	10 (.190)	1/4	5/16	3/8															
THREADS PER INCH		24UNC	20UNC	18UNC	16UNC															
BODY DIAMETER	D <sub>e</sub>	Max Min	.1900 .1586	.2500 .2127	.3125 .2712	.3750 .3287														
HEAD DIAMETER	A	Max Min	.373 .357	.492 .473	.615 .594	.740 .716														
HEAD HEIGHT	H	Max Min	.133 .122	.175 .162	.218 .203	.261 .244														
RECESS DIAMETER	M	Max Min	.196 .186	.278 .268	.347 .337	.390 .380														
RECESS DEPTH	N	Max Min	.145 .135	.192 .182	.227 .217	.266 .256														
RECESS WIDTH	J	Min	.031	.039	.059	.065														
RADIUS	R	Max	.031	.025	.027	.031														
DRIVER SIZE			2	3	4	4														
LENGTH	L	Tolerance	Dash Number	Dash Number	Dash Number	Dash Number														
THREADS SHALL EXTEND TO WITHIN 2 THREADS OF THE BEARING SURFACE OF THE HEAD, OR CLOSER IF PRACTICABLE.	1/8	+0 -1/32	51	66	80	93														
	3/16		52																	
	1/4		53																	
	5/16		54																	
	3/8		55																	
	7/16	56	67	68	69	70														
	1/2	57	58	59	60	71	72	73	74	84	85	86	87	94						
	5/8	58	59	60	61	62	63	64	75	76	77	78	88	89	90	91	95	96	97	98
	3/4	59	60	61	62	63	64	75	76	77	78	88	89	90	91	95	96	97	98	
	7/8	60	61	62	63	64	75	76	77	78	88	89	90	91	95	96	97	98		
	1-1/4	61	62	63	64	75	76	77	78	88	89	90	91	95	96	97	98			
	1-1/2	62	63	64	75	76	77	78	88	89	90	91	95	96	97	98				
	1-3/4	63	64	75	76	77	78	88	89	90	91	95	96	97	98					
	2	64	75	76	77	78	88	89	90	91	95	96	97	98						
	Minimum Complete Thread Length of 1-3/4	2-1/4	+0 -3/32	65	79	92	103	104	105											

**CANCELLED**  
SEE NOTE

NOTE: For illustration, material, finish, and other pertinent data, see sheet 1.

(A) Cancelled after 12 Dec 63 Use MS31957. Interchangeability relationship - MS31957 can replace the cancelled screws of the same size. The cancelled MS35216 cannot always replace MS31957 and should be used until existing stock is depleted. Then use only the superseding MS screws of the same size for design and replacement.

APPROVED 25 JUNE 63 REVISED (A) FOR CHANGES SEE SHEETS 1 AND 2.

P.A. WC Other Cust Shlps MOAMA	TITLE SCREW, MACHINE PAN HEAD, CROSS- RECESSED, CORROSION RESISTING STEEL, PASSIVATED, NC-2A AND UNC-2A	MILITARY STANDARD <b>MS 35216</b>
PROCUREMENT SPECIFICATION PP-S-92	SUPERSEDES:	SHEET 2 OF