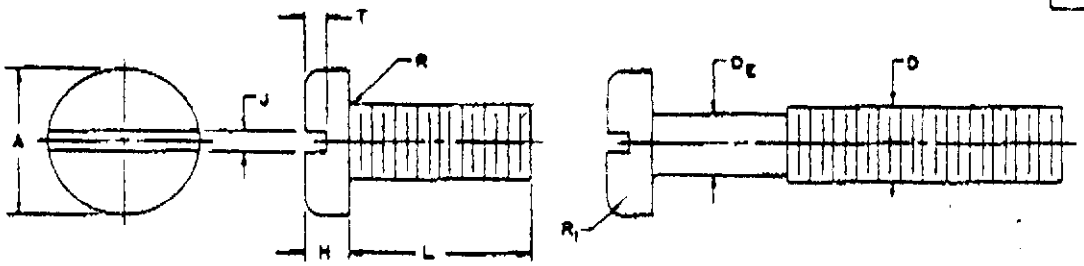
FED. SUP CLASS
5305



NOMINAL SIZE	D		2 (.086)	4 (.112)	6 (.138)	8 (.164)
THREADS PER INCH			56NC	40NC	32NC	32NC
BODY DIAMETER	D_m	Max	.0860	.1120	.1300	.1640
		Min	.0717	.0925	.1142	.1399
HEAD DIAMETER	A	Max	.167	.219	.270	.322
		Min	.155	.205	.256	.306
HEAD HEIGHT	H	Max	.053	.068	.082	.096
		Min	.045	.058	.072	.085
SLOT WIDTH	J	Max	.031	.039	.048	.054
		Min	.023	.031	.039	.045
SLOT DEPTH	T	Max	.033	.041	.050	.058
		Min	.023	.030	.038	.043
RADIUS ON HEAD	R_1	Nom	.035	.042	.046	.052
RADIUS UNDER HEAD	R	Max	.012	.018	.023	.023

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	1	11	24	39
	3/16		2	12	25	40
	1/4		3	13	26	41
	5/16		4	14	27	42
	3/8		5	15	28	43
	7/16		6	16	29	44
	1/2		7	17	30	45
	5/8		8	18	31	46
	3/4		9	19	32	47
	7/8		10	20	33	48
	1			21	34	49
	1-1/4	+0 -1/16		22	35	50
	1-1/2			23	36	51
	1-3/4				37	52
	2				38	53
Minimum Complete Thread Length of 1-3/4.	2-1/4	+0 -3/32		Ⓐ CANCELLED SEE SHEET 2		54
	2-1/2					55
	2-3/4					56
	3					57

MATERIAL: Carbon Steel, Specification QQ-W-409 or QQ-S-633, except Bessemer compositions; 55,000 PSI minimum ultimate tensile strength.

FINISH: Plain (untreated).

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

NOTES: (1) Referenced documents of issue in effect on date of invitation for bids shall apply
(2) In case of conflict with any referenced document, this standard will govern.
(3) The MS part number consists of the MS sheet number, plus the dash number. Example: MS 35221-1
(4) All dimensions in inches.

Ⓐ For changes, see sheets 1 and 2

P.A. Ord Other Cust Ships	TITLE SCREW, MACHINE, PAN HEAD, SLOTTED, CARBON STEEL, PLAIN FINISH, NC-2A AND UNC-2A	MILITARY STANDARD MS 35221
PROCUREMENT SPECIFICATION FP-S-92	SUPERSEDES:	SHEET 1 OF 2

FED. SUP CLASS
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NOMINAL SIZE	D		10 (.190)	1/4	5/16	3/8
THREADS PER INCH			24NC	20UNC	18UNC	16UNC
BODY DIAMETER	D_e	Max	.1900	.2500	.3125	.3750
		Min	.1586	.2127	.2712	.3287
HEAD DIAMETER	A	Max	.373	.492	.615	.740
		Min	.357	.473	.594	.716
HEAD HEIGHT	H	Max	.110	.144	.178	.212
		Min	.099	.130	.162	.195
SLOT WIDTH	J	Max	.060	.075	.084	.094
		Min	.050	.064	.072	.081
SLOT DEPTH	T	Max	.067	.087	.109	.130
		Min	.050	.070	.092	.113
RADIUS ON HEAD	R_1	Nom	.061	.087	.099	.143
RADIUS UNDER HEAD	R	Max	.031	.025	.027	.031

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			(A) CANCELLED SEE NOTE	
	3/16		58			
	1/4		59			
	5/16		60	76		
	3/8		61	77	92	
	7/16		62	78	93	
	1/2		63	79	94	107
	5/8		64	80	95	108
	3/4		65	81	96	109
	7/8		66	82	97	110
	1		67	83	98	111
	1-1/4	+0 -1/16	68	84	99	112
	1-1/2		69	85	100	113
	1-3/4		70	86	101	114
	2		71	87	102	115
Minimum Complete Thread Length of 1-3/4.	2-1/4	+0 -3/32	72	88	103	116
	2-1/2		73	89	104	117
	2-3/4		74	90	105	118
	3		75	91	106	119

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

(A) CANCELLED AFTER 15 JUN 1962. USE MS 35206. INTERCHANGEABILITY RELATIONSHIP - MS35206 can replace the cancelled screws of the same size. The cancelled MS35221 cannot always replace MS35206 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 FEB 2, 1959 REVISED (A) FOR CHANGES SEE SHEETS 1 AND 2

N.A. Ord Other Cust Ships	TITLE SCREW, MACHINE, PAN HEAD, SLOTTED, CARBON STEEL, PLAIN FINISH, NC-2A AND UNC-2A	MILITARY STANDARD MS 35221
PROCUREMENT SPECIFICATION FF-S-92	SUPERSEDES	SHEET 2 OF

DD Form 1 Apr 51 672-1 (Continued)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.