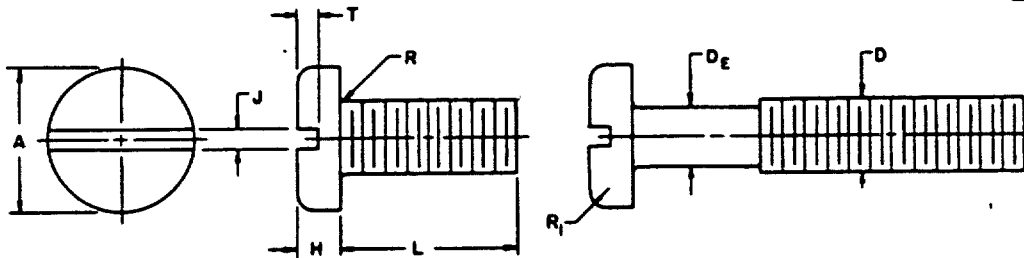


FED. SUP CLASS  
5305

NOMINAL SIZE			2 (.086)	4 (.112)	6 (.138)	8 (.164)	
THREADS PER INCH			56NC	40NC	32NC	32NC	
BODY DIAMETER	D <sub>e</sub>	Max	.0860	.1120	.1380	.1640	
		Min	.0717	.0925	.1141	.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 <sub>1</sub> Nom	.035	.042	.046	.052	
RADIUS UNDER HEAD		R Max	.013	.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		22	35	50	
		1-1/2	+0 -1/16		23	36	51
		1-3/4			37	52	
		2			38	53	
		2-1/4				54	
Minimum Complete Thread Length of 1-3/4.		2-1/2	+0 -3/32				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.

(A) For changes, see sheets 1 and 2.

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

NOTICE.—When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have furnished, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner increasing the liability of any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

This military standard is approved by the Department of Defense and is mandatory on all activities. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

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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	.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 <sub>1</sub>		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	58	76	A CANCELLED SEE NOTE	
	3/16		59			
	1/4		60			
	5/16		61			
	3/8		62			
	7/16		63			
	1/2	+0 -1/16	64	80	92	107
	5/8		65		93	108
	3/4		66		94	109
	7/8		67		95	110
	1		68		96	111
	1-1/4		69		97	112
	1-1/2	+0 -3/32	70	88	98	113
	1-3/4		71		99	114
	2		72		100	115
	2-1/4		73		101	116
	2-1/2		74		102	117
	2-3/4		75		103	118
Minimum Complete Thread Length of 1-3/4.	3			91	104	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.

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 FF-S-92	SUPERSEDES:	SHEET 2 OF