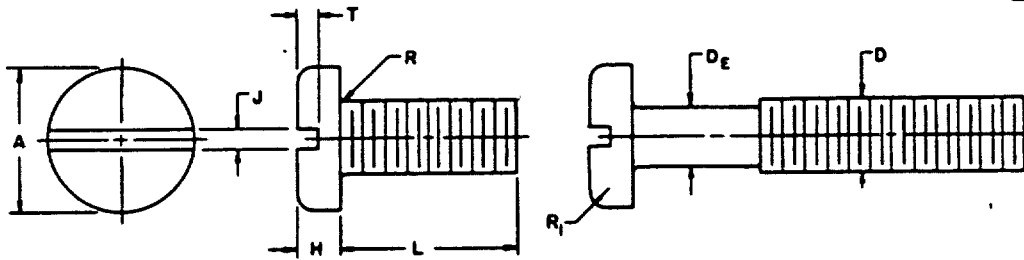


FED. SUP CLASS
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NOMINAL SIZE		D	2 (.086)	4 (.112)	6 (.138)	8 (.164)
THREADS PER INCH			56NC	40NC	32NC	32NC
BODY DIAMETER	D_e	Max	.0860	.1120	.1380	.1640
		Min	.0717	.0925	.1141	.1399
HEAD DIAMETER	A	Max	.167	.219	.270	.322
		Min	.155	.205	.256	.306
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_1	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		1	11	24	39
	3/16		2	12	25	40
	1/4		3	13	26	41
	5/16		4	14	27	42
	3/8	+0 -1/32	5	15	28	43
	7/16		6	16	29	44
	1/2		7	17	30	45
	5/8		8	18	31	46
	3/4	+0 -1/16	9	19	32	47
	7/8		10	20	33	48
1	21		34	49		
1-1/4	22		35	50		
Minimum Complete Thread Length of 1-3/4.	2-1/4	+0 -3/32	Ⓐ CANCELLED SEE SHEET 2		36	51
	2-1/2				37	52
	2-3/4				38	53
3					54	55
						56
						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.

APPROVED FEB 9, 1954 REVISED 15 JUN 1962

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 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 secondary on all activities. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

FED. SUP CLASS
5305

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NOMINAL SIZE		D	10 (.190)	1/4	5/16	3/8	
THREADS PER INCH			24UNC	20UNC	18UNC	16UNC	
BODY DIAMETER	D _e	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	.110 .099	.144 .130	.178 .162	.212 .195	
SLOT WIDTH	J	Max Min	.060 .050	.075 .064	.084 .072	.094 .081	
SLOT DEPTH	T	Max Min	.067 .050	.087 .070	.109 .092	.130 .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	58	76	A CANCELLED SEE NOTE		
	3/16		59				
	1/4		60				
	5/16		61				
	3/8		62				
	7/16		63				
	1/2	64	77				
	5/8	65	78	92			
	3/4	66	79	93			
	7/8	67	80	94			107
	1	68	81	95			108
	1-1/4	69	82	96			109
	1-1/2	70	83	97			110
	1-3/4	71	84	98			111
	2	72	85	99			112
Minimum Complete Thread Length of 1-3/4.	2-1/4	+0 -3/32	73	86	100	113	
	2-1/2		74	87	101	114	
	2-3/4		75	88	102	115	
	3			89	103	116	
				90	104	117	
				91	105	118	
					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.

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.

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

APPROVED FEB 9, 1954 REVISED A FOR CHANGES SEE SHEETS 1 AND 2.