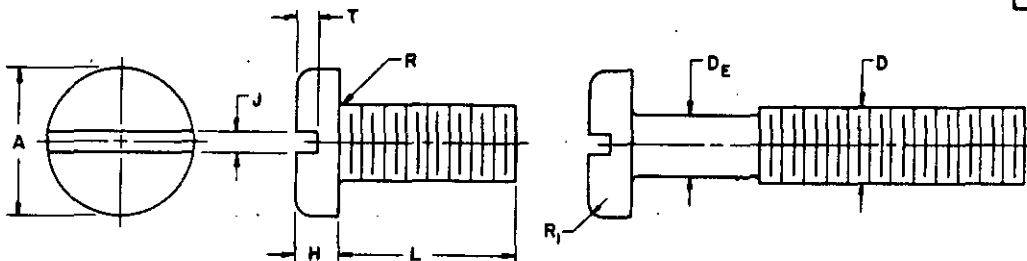


FED. SUP CLASS
5305



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, including the holder or any other person or corporation, or conveying any right, or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

NOMINAL SIZE		D	2 (.086)	4 (.112)	6 (.138)	8 (.164)	
THREADS PER INCH			64NF	48NF	40NF	36NF	
BODY DIAMETER	D _e	Max	.0860	.1120	.1380	.1640	
		Min	.0733	.0954	.1184	.1424	
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	.011	.015	.018	.020	
LENGTH		L	Tolerance	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		
	1-1/2	+0 -3/32	23	36	51		
	1-3/4		2	37	52		
	2		3	38	53		
2-1/4	4			54			
Minimum Complete Thread Length of 1-3/4.	2-1/2	+0		55			
	2-3/4	-3/32		56			
	3			57			

Ⓐ CANCELLED
SEE SHEET 2

MATERIAL: Carbon Steel, Specification QQ-W-409 or QQ-S-633, except Bessemer composition; 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 35222-1.
 (4) All dimensions in inches.

Ⓐ For changes, see sheets 1 and 2.

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	TITLE SCREW, MACHINE, PAN HEAD, SLOTTED, CARBON STEEL, PLAIN FINISH, NF-2A AND UNF-2A	MILITARY STANDARD	
Other Cust Ships		MS 35222	
PROCUREMENT SPECIFICATION FP-S-92	SUPERSEDES:	SHEET 1 OF 2	

APPROVED FEB 9, 1954 REVISED 15 JUN 1962

FED. SUP CLASS
5305

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 licensing the holder or 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.

NOMINAL SIZE	D		10 (.190)	1/4	5/16	3/8
THREADS PER INCH			32NF	28UNF	24UNF	24UNF
BODY DIAMETER	D _e	Max Min	.1900 .1658	.2500 .2225	.3125 .2806	.3750 .3430
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	.023	.026	.031	.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				
	5/8	65	81			
	3/4	66	82			
	7/8	67	83			
	1	68	84			
	1-1/4	69	85			
	1-1/2	70	86			
	1-3/4	71	87			
	2	72	88			
Minimum Complete Thread Length of 1-3/4.	2-1/4	+0 -3/32	73	89	104	117
	2-1/2		74	90	105	118
	2-3/4		75	91	106	119

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

(A) CANCELLED AFTER 15 JUN 1962 USE MS 35207. INTERCHANGEABILITY RELATIONSHIP - MS35207 can replace the cancelled screws of the same size. The cancelled MS35222 cannot always replace MS35207 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 SCREW, MACHINE, PAN HEAD, SLOTTED, CARBON STEEL, PLAIN FINISH, NF-2A AND UNF-2A	MILITARY STANDARD MS 35222
PROCUREMENT SPECIFICATION FF-S-92	SUPERSEDES:	SHEET 2 OF 2