



NOMINAL SIZE		D	R (.095)	A (.112)	H (.138)	B (.164)
THREADS PER INCH			100%	100%	100%	100%
BODY DIAMETER	D _b	Max	.060	.1120	.1380	.1640
		Min	.0717	.0925	.1141	.1359
HEAD DIAMETER	A	Max	.157	.219	.270	.321
		Min	.155	.205	.255	.306
HEAD HEIGHT	H	Max	.073	.060	.082	.086
		Min	.045	.038	.077	.086
SLOT WIDTH	J	Max	.011	.039	.048	.052
		Min	.023	.031	.039	.042
SLOT DEPTH	T	Max	.033	.041	.050	.058
		Min	.023	.030	.038	.043
RADIUS ON HEAD		R	Min	.042	.046	.052
RADIUS UNDER HEAD		R	Max	.018	.023	.023

LENGTH	L	Tolerances	Dash Number	Dash Number	Dash Number	Dash Number
THREADS SHALL EXTEND TO WITHIN 2 THREADS OF THE BEARING SURFACE OF THE HEAD OR SLIGHTLY FRAGILE.	1/8	±.001	1	11	12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23	24, 25, 26, 27, 28, 29, 30, 31, 32, 33
	1/16		2	12		
	3/16		3	13		
	1/4		4	14		
	5/16		5	15		
	3/8		6	16		
	7/16		7	17		
	1/2		8	18		
	5/8		9	19		
	3/4		10	20		
PERFORM COMPLETE THROUGH LENGTH OF 1-1/2"	1-1/4	±.001	24	34	35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200
	1-1/2		21	31		
PERFORM COMPLETE THROUGH LENGTH OF 1-3/4"	1-1/2	±.001	25	35	36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200
	1-3/4		26	36		

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

FINISH: Cadmium plated, Specification QQ-P-416, Type II, class C.

THREADS: The threads shall be in accordance with Screw-Thread Standards for Federal Services Handbook S-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 NS part number consists of the NS sheet number, plus the dash number. Example: NS 35223-1.
 All dimensions in inches.

Ⓢ CANCELLED - SEE SHEET 2
(EXCEPT DASH NO. 61, WHICH IS INACTIVE.)

Ⓢ for changes see sheets 1 and 2.

This utility standard is approved by the Department of Defense and is mandatory on all contractors. All parts to be manufactured and delivered to the Department of Defense shall be made to this standard.

P.A. WC Other Com 34	TITLE SCREW, MACHINE, PAN HEAD, SLOTTED, CARBON STEEL, CADMIUM PLATED, NC-2A AND UNC-2A	MILITARY STANDARD MS 35223
PROCUREMENT SPECIFICATION FF-3-92	SYMBOLS	SHEET 1 OF 2

DD FORM 672-1 (Continued)

APPROVED 9 FEB 1954 REVISED 15 JAN 1973

NOTE - This drawing is intended for use in connection with the Army, Navy, and Air Force specifications for screws. It is not intended to be used for other purposes. The drawing is not intended to be used for other purposes. The drawing is not intended to be used for other purposes.

NOMINAL SIZE		D	10 (.299)	1/4	5/16	3/8
THREADS PER INCH			18UNC	18UNC	18UNC	18UNC
BODY DIAMETER	D _b	Max	.3900	.4900	.5125	.5750
		Min	.3586	.4187	.4713	.5267
HEAD DIAMETER	A	Max	.373	.492	.515	.580
		Min	.357	.473	.494	.516
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 OF HEAD	R ₁	Max	.061	.087	.099	.143
RADIUS UNDER HEAD	R	Max	.031	.025	.027	.031
LENGTH	L	Tolerance				
		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			
			59			
			60		76	
			61		77	
			62		78	94230
			63		79	
	3/8	+0 -1/32	84			107
			85			108
			86			
	1/2	+0 -1/32	87		94230	109
			88		94230	110
			89		94230	111
5/8	+0 -1/32	90		94230	112	
		91				
		92				
2-1/4	+0 -1/32	93			113	
		94			114	
		95			115	
Minimum Complete Thread Length of 1-3/4	+0 -1/32	96			116	
		97			117	
		98			118	
			99			119
			100			120

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

(B) CANCELLED AFTER 15 JUN 1962 - USE MS35206
 (EXCEPT DASH NO. 61, WHICH IS INACTIVE FOR NEW DESIGN AFTER 15 JAN 1973.
 USE FOR MAINTENANCE PURPOSES ONLY.)

INTERCHANGEABILITY RELATIONSHIP - MS35206 can replace the cancelled screws of the same size. The cancelled MS35223 cannot always replace MS35206 and should be used until existing stock is depleted. These are only the superseding MS35206 screws of the same size for design and replacement.

P.A. WC Other Con 24	TITLE SCREW, MACHINE, PAN HEAD, SLOTTED, CARBON STEEL, CADMIUM PLATED, NC-2A AND UNC-2A	MILITARY STANDARD MS 35223
PROCUREMENT SPECIFICATION PF-3-92	SUPERSEDES	SHEET 2 OF

DD FORM 672-1 (Continued)

APPROVED 9 FEB 1954 REVISED (A) 15 JUN 1962 (B) FOR CHANGES SEE SHEETS 1 AND 2.