

NOMINAL SIZE D			(.0730)	(.0860)	(.1120)	(.1380)	(.1640)	(.1900)	(.2500)	(.3125)		
	THREADS PER INCH			64nc	56 <b>nc</b>	40NC	32NC	32NC	24NC	20UNC	18UNC	]
	BODY DIAMETER	DE	Max Min	.0730 .0603	.0860 .0717	.1120 .0925	.1380 .1141	.1640 .1399	.1900 .1586	.2500 .2127	.3125 .2712	
	HEAD DIAMETER	Α.	Max Sharp Min Sharp Abs Min	.146 .130 .126	.172 .156 .150	.225 .207 .200	.279 .257 .249	.332 .308 .300	.385 .359 .348	.507 .477 .462	.635 .600 .581	
	SLOT WIDTH	J	{Max Min	.026 .019	.031 .023	.039 .031	.048 .039	.054 .045	.060 .050	.075 .064	.084 .072	
	FLAT	S	Max	.003	.003	.004	.005	.006	.007	.009	.011_	]
	RADIUS	R	Max	.031	.036	.050	.063	.063	. 083	.100	.111	]
	HEAD HEIGHT	н	∫Max Min	.043 .033	.051 .040	.067 .055	.083 .069	.100 .084	.116 .098	.153 .131	.191 .165	
FULL HEAD	SLOT DEPTH	т	{Max Min	.019 .012	.023 .015	.030 .020	.038 .024	.045 .029	.053 .034	.070 .046	. 088 . 058	
UNDERCUT	HEAD HEIGHT	$_{\rm H_1}$	{Max Min	.032	.037 .026	.048 .036	.060 .046	.071 .055	.083 .065	.108 .086	.135 .109	
HEAD	SLOT DEPTH	T <sub>1</sub>	{Max {Min	.016 .012	.019 .015	.025 .020	.0 <u>3</u> 2 .024	.037 .029	. 044 . 034	. 058 . 046	. 073 . 058	
	LENGTH	L	Tolerance	Dash No.	Dash No.	Dash No.	Dash No.	Dash No.	Dash No.	Dash No.	Dash No.	]
TO WITHIN 2 3 SURFACE OF PRACTICABLE.	1/8 3/16 1/4 5/16		+0	1 - 1 3 4	8 10 11 12	18 19 20 21 22	31 32 33 34	46 47 - 48 - 49	65 66 67 68	83 84	99	
EXTEND TO BEARING S OSER IF PF	7/16 1/2 5/8		-1/32	5 6 7	13 14 15	23 24 25	35 36 37 38	50 51 52 53	69 70 71	- 85 - 86 87	100 101 10 <b>2</b>	-
THREADS SHALL EXTEND THREADS OF THE BEARING THE HEAD, OR CLOSER IF	3/4 7/8 1 1-1/4				16 17	26 27 28 29	39 40 41 42	54 55 56 57	72 73 74 75	88 89 90 91	103 104 105 106	
	1-1/2 1-3/4 2		+0 -1/16			30	43 44 45	58 59 60	76 77 78 79	92 93 94	107 108 109	DEC 63
Minimum complete thread length of 1-3/4.	2-1/4 2-1/2 2-3/4 3		+0 -3/32	-@ (	SEE	CEL	<u>  F</u>	61 62 63 64	79 80 81 82	95 96 97 98	110 111 112 113	<b>⊚</b>
MATERIAL: FINISH:	Corrosion Resisting Steel, Specification QQ-S-763, 70,000 PSI minimum tensile strength, minimum elongation 16% in 2 inches.  Passivated by immersion for a period of 20 minutes in a solution containing 15% (by weight) of nitric acid at a temperature of 70°F ±5°, followed by a thorough rinse in hot water.											

MATERIAL: Corrosion Resisting Steel, Specification QQ-S-763, 70,000 PSI minimum tensile strength, minimum elongation 16% in 2 inches.

FINISH: Passivated by immersion for a period of 20 minutes in a solution containing 15% (by weight) of nitric acid at a temperature of 70°F ±5°, followed by a thorough rinse in hot water.

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

HEAD MARKING: For corrosion resisting steel screws. Only one visible dash necessary after slotting operation.

Fosition optional. Screws size #4 and smaller require no head markings.

NOTES: (1) Referenced documents of issue in effect on date of invitation for bids shall apply.

In case of conflict with any referenced document, this standard will govern.

The MS part number consists of the MS sheet number, plus the dash number. Example: MS 35249-1.

Sizes above dotted line have undercut head.

All dimensions in inches.

(A) For changes see sheets 1 and 2.

APPROVED FEB 9, 1954

FED. SUP CLASS 5305

5/16

P.A. WC		TITLE SCREW, MACHINE, FLAT COUNTERSUNK HEAD.	MILITARY STANDARD			
MOAMA		SLOTTED, CORROSION RESISTING STEEL, PASSIVATED, NC-2A AND UNC-2A	MS 35249			
PROCUREMENT FF-	NT SPECIFICATION S-92	SUPERSEDES:	SHEET OF 2			

3/4

10UNC .7500 .6773

1.375 1.306 1.267

.149

.131

027

200

.372 .319

.171

.111

.264 .211

.142

.111

170 171

172

173 174

175

176

177 178

NOTE

FULL HEAD

UNDERCUT

HEAD

O TO WITHIN 2 NG SURFACE OF PRACTICABLE

S SHALL EXTEND TO S OF THE BEARING ! ID, OR CLOSER IF PRO

THREADS SI THREADS OF THE HEAD, (

standard is approved by the Department of Defense and is all activities. Selection for all new engineering and design and for repetitive use shell be made from this document.

Minimum

complete

NOMINAL SIZE

THREADS PER INCH

BODY DIAMETER DE

HEAD DIAMETER A

SLOT WIDTH

HEAD HEIGHT

SLOT DEPTH

HEAD HEIGHT

SLOT DEPTH

3/4 7/8

1-1/4

1-1/2

2-1/4

LENGTH

RADIUS

Min

Max Min

Max

Max

Max

Max

Min

Max

Min

| Max | Min

+0 -1/32

+0 -1/16

s

R

Н Min

Т

 $H_1$ 

 $\mathbf{T_1}$ 

Max Sharp Min Sharp

Abs Min

3/8 3750

16UNC

.3750

.762 .722

.700

.094 .081

.013

.125

.230

.106

.070

.162

.132

.088

.070

.114 115

116

117 118

119

120

121

122

123

Tolerance Dash No.

14UNC

. 4375 . 3850

.812 .771 .743

.094 .081

016

.143

.223

.103

.156 .126

.085

Dash No.

127

128

129 130 131

132 133 134

135

1/2 5000

13UNC

5000

.4435

.875 .831

.802

.106

.091

018

.154

.223

.103

.160

.123

.085

Dash No.

139 140

141

142

143 144

145 146

9/16

12UNC

.562

1.000

.950

.118

020

.167

.260

.120

.185

.100

150 151

152

.5016

11UNC

.6250

.5589

1.125

1.035

.133 .116

. 023

. 182

.298 .253

.137 .088

.212 .167

.114

Dash No. Dash No. Dash No.

1<u>60</u> 161

162

163 164

165 166

ê **@** REVISED FEB 9,1954

APPROVED

SHEETS I AND

SEE

CHANGES

(A) CANCELLED. AFTER 19 Dec 1963 USE MS51959 FOR NOMINAL SIZES THRU 3/8 INCH, AND MS24671 FOR LARGER SIZES. INTERCHANGEABILITY RELATIONSHIP MS51959 AND MS24671 can replace the cancelled screws of the same size. The cancelled MS35249 cannot always replace MS51959 or MS24671 and should be used until existing stock is depleted. Then use only the superseding MS screws of the same size for design and replacement.

B 4					
P.A. Other Cust	WC Ships	TITLE SCREW, MACHINE, FLAT COUNTERSUNK HEAD.	MILITARY STANDARD		
	MOAMA	, , , ,	MS 35249		
	IT SPECIFICATION -S-92	SUPERSEDES:	SHEET OF		