



| NOMINAL SIZE D | #0 (.0600) | #1 (.0730) | #2 (.0860) | #4 (.1120) | #6 (.1380) | #8 (.1640) | #10 (.1900) | 1/4 (.2500) | | |
|------------------------------|-----------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|--------------|
| THREADS PER INCH | 60NF | 72NF | 64NF | 48NF | 40NF | 36NF | 32NF | 28UNF | | |
| BODY DIAMETER D _c | MAX MIN | .0600 .0496 | .0730 .0615 | .0860 .0733 | .1120 .0954 | .1380 .1184 | .1640 .1424 | .1900 .1658 | .2500 .2225 | |
| HEAD DIAMETER A | MAX SHARP MIN SHARP ABS MIN | .119 .105 .101 | .146 .130 .126 | .172 .156 .150 | .225 .207 .200 | .279 .257 .249 | .332 .308 .300 | .385 .359 .348 | .507 .477 .462 | |
| SLOT WIDTH J | MAX MIN | .023 .016 | .026 .019 | .031 .023 | .039 .031 | .048 .039 | .054 .045 | .060 .050 | .075 .064 | |
| FLAT S | MAX | .002 | .003 | .003 | .004 | .005 | .006 | .007 | .009 | |
| RADIUS R | MAX | .025 | .027 | .031 | .041 | .050 | .055 | .062 | .071 | |
| FULL HEAD | HEAD HEIGHT H | MAX MIN | .035 .026 | .043 .033 | .051 .040 | .067 .055 | .083 .069 | .100 .084 | .116 .098 | .153 .131 |
| | SLOT DEPTH T | MAX MIN | .015 .010 | .019 .012 | .023 .015 | .030 .020 | .038 .024 | .045 .029 | .053 .034 | .070 .046 |
| UNDERCUT HEAD | HEAD HEIGHT H ₁ | MAX MIN | .026 .017 | .032 .022 | .037 .026 | .048 .036 | .060 .046 | .071 .055 | .083 .065 | .108 .086 |
| | SLOT DEPTH T ₁ | MAX MIN | .012 .010 | .016 .012 | .019 .015 | .025 .020 | .032 .024 | .037 .029 | .044 .034 | .058 .046 |

| THREADS SHALL EXTEND TO WITHIN 2 THREADS OF THE BEARING SURFACE OF THE HEAD, OR CLOSER IF PRACTICABLE. | LENGTH L | TOLERANCE | DASH No. | DASH No. | DASH No. | DASH No. | DASH No. | DASH No. | DASH No. | DASH No. |
|--|----------|-------------|-------------|----------|----------|----------|----------|----------|----------|----------|
| | 1/8 | 1 | +0 -1/32 | 1 | 6 | 13 | 22 | 33 | 48 | 67 |
| 3/16 | 2 | 7 | | 14 | 23 | 34 | 49 | 68 | | |
| 1/4 | 3 | 8 | | 15 | 24 | 35 | 50 | 69 | | |
| 5/16 | 4 | 9 | | 16 | 25 | 36 | 51 | 70 | | |
| 3/8 | 5 | +0 -1/16 | 10 | 17 | 26 | 37 | 52 | 70 | 87 | 88 |
| 7/16 | 11 | | 18 | 27 | 38 | 53 | 71 | 88 | | |
| 1/2 | 12 | | 19 | 28 | 39 | 54 | 72 | 89 | | |
| 5/8 | 20 | | 29 | 40 | 55 | 73 | 90 | | | |
| 3/4 | 21 | +0 -3/32 | 21 | 30 | 41 | 56 | 74 | 91 | 98 | 101 |
| 7/8 | 31 | | | 42 | 57 | 75 | 92 | | | |
| 1 | 32 | | | 43 | 58 | 76 | 93 | | | |
| 1-1/4 | 44 | | | 59 | 77 | 94 | | | | |
| 1-1/2 | 45 | +0 -3/32 | 21 | 46 | 60 | 78 | 95 | 99 | 100 | |
| 1-3/4 | 47 | | | 61 | 79 | 96 | | | | |
| 2 | 62 | | | 80 | 97 | 98 | | | | |
| 2-1/4 | 63 | | | 81 | 98 | 99 | | | | |
| 2-1/2 | 64 | +0 -3/32 | 21 | 65 | 82 | 99 | 100 | 100 | 101 | |
| 2-3/4 | 66 | | | 83 | 100 | | | | | |
| 3 | 66 | | | 84 | 101 | | | | | |

Ⓐ 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: 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 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 35240-1.
 (4) SIZES ABOVE DOTTED LINE HAVE UNDERCUT HEAD.
 (5) ALL DIMENSIONS IN INCHES.

Ⓐ FOR CHANGES SEE SHEETS 1 AND 2.

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| P.A. ORD Other Cust SI-IPS | TITLE SCREW, MACHINE, FLAT COUNTERSUNK HEAD, SLOTTED, CARBON STEEL, CADMIUM PLATED, NF-2A AND UNF-2A. | MILITARY STANDARD MS 35240 |
| PROCUREMENT SPECIFICATION FF-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 licensing 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.

 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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| NOMINAL SIZE D | | 5/16 (.3125) | 3/8 (.3750) | 7/16 (.4375) | 1/2 (.5000) | 9/16 (.5625) | 5/8 (.6250) | 3/4 (.7500) | |
|--|----------------------------|--|--|--|--|---|--|---|----------|
| THREADS PER INCH | | 24UNF | 24UNF | 20UNF | 20UNF | 18UNF | 18UNF | 16UNF | |
| BODY DIAMETER D _E | | { MAX MIN .3125 .2806 | { MAX MIN .3750 .3430 | { MAX MIN .4375 .3995 | { MAX MIN .5000 .4619 | { MAX MIN .5625 .5205 | { MAX MIN .6250 .5826 | { MAX MIN .7500 .7024 | |
| HEAD DIAMETER A | | { MAX SHARP MIN SHARP ABS MIN .635 .600 .581 | { MAX SHARP MIN SHARP ABS MIN .762 .722 .700 | { MAX SHARP MIN SHARP ABS MIN .812 .771 .743 | { MAX SHARP MIN SHARP ABS MIN .875 .831 .802 | { MAX SHARP MIN SHARP ABS MIN 1.000 .950 .919 | { MAX SHARP MIN SHARP ABS MIN 1.125 .1.076 1.025 | { MAX SHARP MIN SHARP ABS MIN 1.375 1.306 1.257 | |
| SLOT WIDTH J | | { MAX MIN .064 .072 | { MAX MIN .094 .081 | { MAX MIN .094 .081 | { MAX MIN .106 .091 | { MAX MIN .118 .102 | { MAX MIN .130 .116 | { MAX MIN .149 .131 | |
| FLAT S | | MAX .011 | MAX .013 | MAX .016 | MAX .018 | MAX .020 | MAX .023 | MAX .027 | |
| RADIUS R | | MAX .083 | MAX .083 | MAX .100 | MAX .100 | MAX .110 | MAX .110 | MAX .125 | |
| FULL HEAD | HEAD HEIGHT H | { MAX MIN .191 .165 | { MAX MIN .230 .200 | { MAX MIN .223 .190 | { MAX MIN .223 .186 | { MAX MIN .260 .220 | { MAX MIN .298 .253 | { MAX MIN .372 .319 | |
| | SLOT DEPTH T | { MAX MIN .068 .058 | { MAX MIN .106 .070 | { MAX MIN .103 .066 | { MAX MIN .103 .065 | { MAX MIN .120 .077 | { MAX MIN .137 .088 | { MAX MIN .171 .111 | |
| UNDERCUT HEAD | HEAD HEIGHT H _i | { MAX MIN .135 .109 | { MAX MIN .162 .132 | { MAX MIN .156 .126 | { MAX MIN .160 .123 | { MAX MIN .185 .145 | { MAX MIN .212 .167 | { MAX MIN .264 .211 | |
| | SLOT DEPTH T _i | { MAX MIN .073 .058 | { MAX MIN .088 .070 | { MAX MIN .085 .066 | { MAX MIN .085 .065 | { MAX MIN .100 .077 | { MAX MIN .114 .088 | { MAX MIN .142 .111 | |
| THREADS SHALL EXTEND TO WITHIN 2 THREADS OF THE BEARING SURFACE OF THE HEAD, OR CLOSER IF PRACTICABLE. | LENGTH L | TOLERANCE | DASH NO. | DASH NO. | DASH NO. | DASH NO. | DASH NO. | DASH NO. | DASH NO. |
| | 1/8 | +0 -1/32 | 102 | 103 | 104 | 105 | 117 | 118 | 130 |
| | 3/16 | | | | | | | | |
| | 1/4 | | | | | | | | |
| | 5/16 | | | | | | | | |
| | 3/8 | | | | | | | | |
| | 7/16 | | | | | | | | |
| | 1/2 | +0 -1/16 | 110 | 123 | 135 | 146 | 156 | 166 | 175 |
| | 5/8 | | | | | | | | |
| | 3/4 | | | | | | | | |
| | 7/8 | | | | | | | | |
| | 1 | | | | | | | | |
| 1-1/4 | | | | | | | | | |
| 1-1/2 | +0 -3/32 | 114 | 127 | 139 | 150 | 160 | 170 | 179 | |
| 1-3/4 | | | | | | | | | |
| 2 | | | | | | | | | |
| 2-1/4 | | | | | | | | | |
| 2-1/2 | | | | | | | | | |
| 2-3/4 | | | | | | | | | |
| 3 | | | | | | | | | |

Ⓐ CANCELLED
SEE NOTE

NOTE: FOR ILLUSTRATION, MATERIAL, FINISH, AND OTHER PERTINENT DATA SEE SHEET 1.

Ⓐ CANCELLED AFTER 7 May 1962 USE MS 35191. INTERCHANGEABILITY RELATIONSHIP-MS 35191 CAN REPLACE THE CANCELLED SCREWS OF THE SAME SIZE. THE CANCELLED MS 35240 CANNOT ALWAYS REPLACE MS 35191 AND SHOULD BE USED UNTIL EXISTING STOCK IS DEPLETED. THEN USE ONLY THE SUPERSEDING MS SCREWS OF THE SAME SIZE FOR DESIGN AND REPLACEMENT.

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| P.A. ORD Other Cust SHIPS | TITLE SCREW, MACHINE, FLAT COUNTERSUNK HEAD, SLOTTED, CARBON STEEL, CADMIUM PLATED, NF-2A AND UNF-2A | MILITARY STANDARD MS 35240 |
| PROCUREMENT SPECIFICATION FF-5-92 | SUPERSEDES: | SHEET 2 OF |