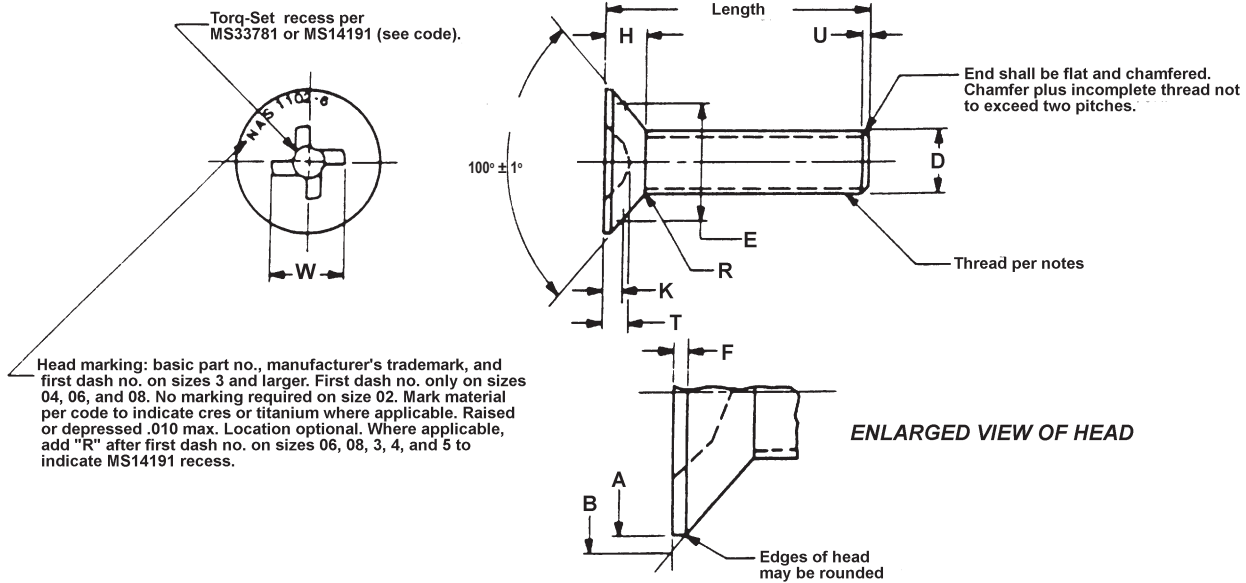


NAS1102 Series Specifications

Screw, Machine Flat 100° Head

Full Thread, Torq-Set



Head marking: basic part no., manufacturer's trademark, and first dash no. on sizes 3 and larger. First dash no. only on sizes 04, 06, and 08. No marking required on size 02. Mark material per code to indicate cres or titanium where applicable. Raised or depressed .010 max. Location optional. Where applicable, add "R" after first dash no. on sizes 06, 08, 3, 4, and 5 to indicate MS14191 recess.

| Part No. | Thread | A Diameter | B Absolute Min Diameter | F | H Ref. | R | U Ref. | D Diameter Max | T Max | W Max | Recess Gage Penetration | | K | E Diameter |
|------------|------------------|--------------|-------------------------|--------------|--------|--------------|--------|----------------|-------|-------|-------------------------|-------|----------------|----------------|
| | | | | | | | | | | | Max | Min | | |
| NAS1102-02 | .0860-56 UNJC 3A | .172 .162 | .126 | .015 .005 | .036 | .015 .005 | .010 | .086 | .043 | .115 | .0315 | .0225 | - | - |
| NAS1102-04 | .1120-40 UNJC 3A | .225 .213 | .177 | .015 .005 | .045 | .015 .005 | .013 | .112 | .055 | .0148 | .0405 | .0305 | - | - |
| NAS1102-06 | .1380-32 UNJC 3A | .279 .267 | .231 | .015 .005 | .057 | .020 .010 | .016 | .138 | .066 | .182 | .0500 | .0395 | - | - |
| NAS1102-08 | .1640-32 UNJC 3A | .332 .319 | .270 | .020 .010 | .068 | .020 .010 | .016 | .164 | .078 | .215 | .0595 | .0480 | .0268 .0240 | .2671 .2667 |
| NAS1102-3 | .1900-32 UNJF 3A | .385 .371 | .322 | .020 .010 | .080 | .020 .010 | .016 | .190 | .090 | .248 | .0685 | .0560 | .0290 .0263 | .3147 .3143 |
| NAS1102-4 | .2500-28 UNJF 3A | .507 .491 | .442 | .020 .010 | .106 | .020 .010 | .018 | .250 | .118 | .325 | .0890 | .0750 | .0342 .0316 | .4245 .4241 |
| NAS1102-5 | .3125-24 UNJF 3A | .635 .617 | .568 | .020 .010 | .133 | .020 .010 | .021 | .312 | .122 | .357 | .0860 | .0700 | .0395 .0370 | .5389 .5385 |
| NAS1102-6 | .3750-24 UNJF 3A | .762 .742 | .694 | .020 .010 | .160 | .020 .010 | .021 | .375 | .145 | .427 | .1030 | .0850 | .0450 .0426 | .6532 .6528 |

LENGTH CHART

| DASH NO. | LENGTH | TOLERANCE | DASH NO. | LENGTH | TOLERANCE |
|----------|--------|---------------|----------|----------------|---------------|
| 3 | .188 | +0.00, -0.031 | 18 | 1.125 | +0.00, -0.062 |
| 4 | .250 | +0.00, -0.031 | 20 | 1.250 | +0.00, -0.062 |
| 5 | .312 | +0.00, -0.031 | 22 | 1.375 | +0.00, -0.062 |
| 6 | .375 | +0.00, -0.031 | 24 | 1.500 | +0.00, -0.062 |
| 7 | .438 | +0.00, -0.031 | 26 | 1.625 | +0.00, -0.062 |
| 8 | .500 | +0.00, -0.031 | 28 | 1.750 | +0.00, -0.062 |
| 10 | .625 | +0.00, -0.031 | 30 | 1.875 | +0.00, -0.062 |
| 12 | .750 | +0.00, -0.031 | 32 | 2.000 | +0.00, -0.062 |
| 14 | .875 | +0.00, -0.031 | 34 TO 96 | 2.125 TO 6.000 | +0.00, -0.094 |
| 16 | 1.000 | +0.00, -0.031 | | | |

MIN. TENSILE STRENGTH, Lbs.

| PART NUMBER | ALLOY STEEL CRES (160 KSI) TI (6AL-4V) |
|-------------|--|
| NAS1102-02 | 591 |
| NAS1102-04 | 966 |
| NAS1102-06 | 1,450 |
| NAS1102-08 | 2,240 |
| NAS1102-3 | 3,180 |
| NAS1102-4 | 5,820 |
| NAS1102-5 | 9,200 |
| NAS1102-6 | 14,000 |

MATERIAL:
 Alloy steel, 4140 per MIL-S-5626, 4340 per MIL-S-5000, or 8740 per MIL-S-6049
 Cres per AMS5737 (A286), except for heat treatment, designated by "E" code
 Titanium alloy (6AL-4V) per AMS4967, designated by "V" code
HEAT TREAT:
 Alloy steel - 160,000 - 180,000 psi UTS per MIL-H-6875
 Cres - 160,000 psi UTS min. at room temp.
 Titanium alloy - 160,000 psi UTS min.