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AS3662™

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5970

## RATIONALE

NEW PART STANDARD FOR AS5270 BOLTS.

AS3662 HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

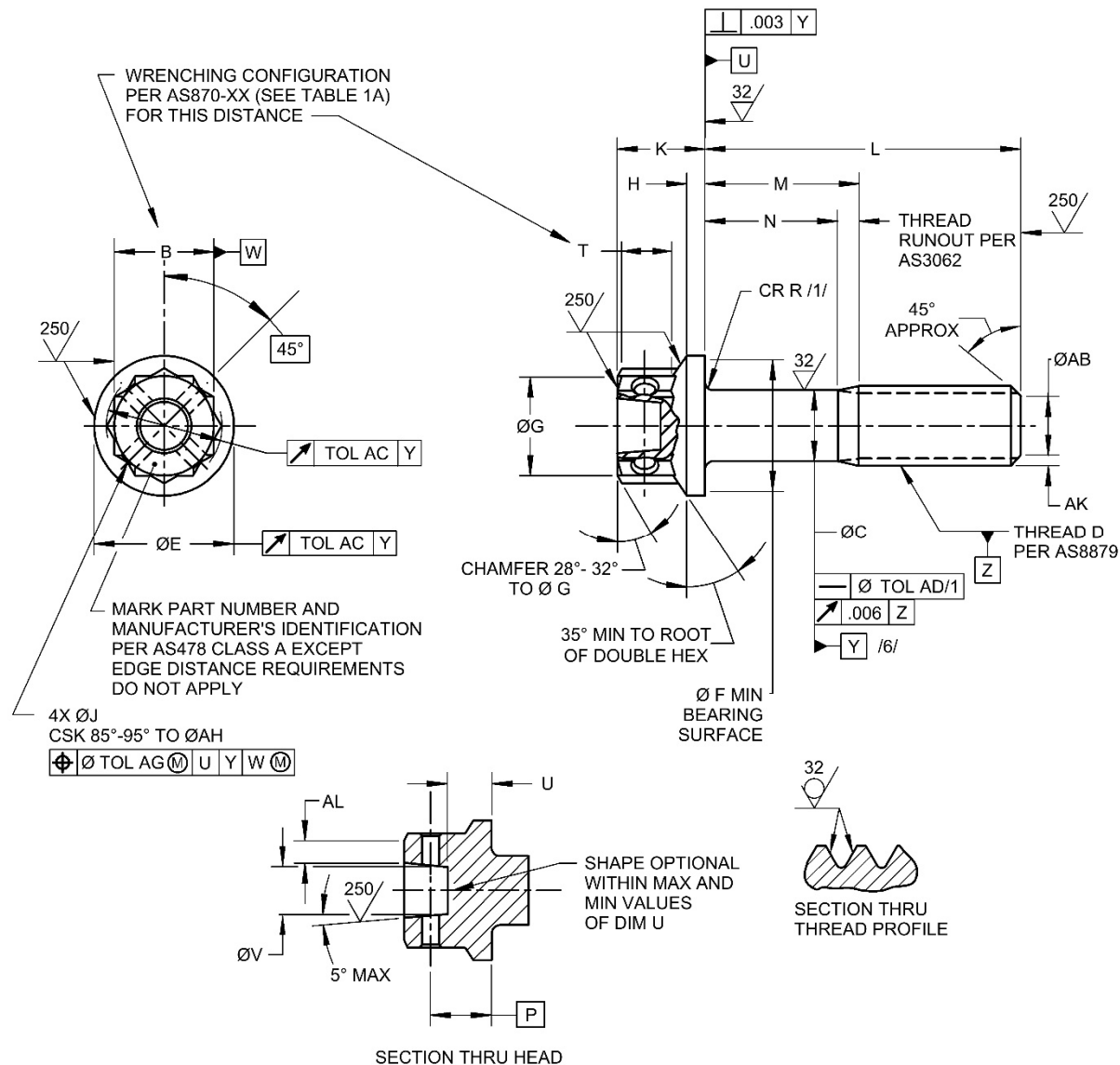
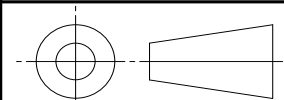


FIGURE 1 - BOLT

For more information on this standard, visit  
<https://www.sae.org/standards/content/AS3662/>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: AS5270



### AEROSPACE STANDARD

BOLT, MACHINE, DOUBLE HEXAGON, DRILLED,  
EXTENDED WASHER HEAD, PD SHANK,  
NICKEL ALLOY, UNS N07718, 220 KSI MIN

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**TABLE 1A - DASH NUMBERS & DIMENSIONS D, AS870 DASH NO., B, ØC, ØE, ØF, ØG, H, ØJ, K, AND P**

| DASH NO. | THREAD D         | AS870 DASH NO. | B NOMINAL | ØC        | ØE          | ØF MIN | ØG        | H MIN | ØJ        | K         | P    |
|----------|------------------|----------------|-----------|-----------|-------------|--------|-----------|-------|-----------|-----------|------|
| -3       | .1900-32 UNJF-3A | 08             | .2500     | .165-.175 | .365-.385   | .335   | .240-.260 | .020  | .042-.052 | .248-.268 | .188 |
| -4       | .2500-28 UNJF-3A | 10             | .3125     | .222-.232 | .455-.475   | .425   | .302-.322 | .026  | .060-.070 | .293-.313 | .229 |
| -5       | .3125-24 UNJF-3A | 12             | .3750     | .280-.290 | .570-.590   | .540   | .365-.385 | .035  | .060-.080 | .354-.374 | .285 |
| -6       | .3750-24 UNJF-3A | 14             | .4375     | .343-.353 | .686-.706   | .656   | .428-.448 | .044  | .060-.080 | .405-.425 | .335 |
| -7       | .4375-20 UNJF-3A | 16             | .5000     | .400-.410 | .802-.822   | .772   | .490-.510 | .053  | .060-.080 | .462-.482 | .392 |
| -8       | .5000-20 UNJF-3A | 18             | .5625     | .462-.472 | .917-.937   | .887   | .552-.572 | .062  | .060-.080 | .510-.530 | .440 |
| -9       | .5625-18 UNJF-3A | 20             | .6250     | .521-.531 | 1.032-1.052 | 1.002  | .615-.635 | .071  | .060-.080 | .558-.578 | .488 |

**TABLE 1B - DASH NUMBERS & DIMENSIONS R, T, U, ØV, ØAB, AC, AD, ØAG, ØAH, AK, AND AL**

| DASH NO. | R         | T MIN | U         | ØV        | ØAB       | AC   | AD    | ØAG  | ØAH       | AK MIN | AL MIN |
|----------|-----------|-------|-----------|-----------|-----------|------|-------|------|-----------|--------|--------|
| -3       | .015-.025 | .122  | .114-.154 | .090-.110 | .130-.150 | .006 | .003  | .015 | .060-.070 | .015   | .046   |
| -4       | .020-.030 | .144  | .150-.199 | .140-.160 | .184-.204 | .007 | .003  | .015 | .080-.090 | .018   | .051   |
| -5       | .026-.036 | .166  | .188-.247 | .196-.216 | .239-.259 | .008 | .003  | .015 | .090-.110 | .022   | .053   |
| -6       | .033-.043 | .188  | .225-.294 | .250-.270 | .301-.321 | .010 | .0025 | .020 | .090-.110 | .022   | .056   |
| -7       | .039-.049 | .210  | .262-.340 | .300-.320 | .354-.374 | .010 | .0025 | .020 | .090-.110 | .027   | .060   |
| -8       | .045-.055 | .232  | .300-.389 | .360-.380 | .416-.436 | .012 | .002  | .020 | .090-.110 | .027   | .060   |
| -9       | .051-.061 | .254  | .338-.440 | .430-.450 | .472-.492 | .013 | .002  | .020 | .090-.110 | .030   | .056   |

**TABLE 2 - PART NUMBERS & DIMENSIONS L, M, N, AND APPROX MASS**

| PART NUMBER | L           | M MAX | N MIN | APPROX MASS LB/100 |
|-------------|-------------|-------|-------|--------------------|
| AS3662-3-06 | .365-.385   | .092  | .025  | .63                |
| AS3662-3-07 | .428-.448   | .092  | .025  | .68                |
| AS3662-3-08 | .490-.510   | .092  | .025  | .72                |
| AS3662-3-09 | .552-.572   | .092  | .025  | .76                |
| AS3662-3-10 | .615-.635   | .092  | .025  | .80                |
| AS3662-3-11 | .678-.698   | .092  | .025  | .84                |
| AS3662-3-12 | .740-.760   | .120  | .025  | .88                |
| AS3662-3-13 | .802-.822   | .183  | .060  | .92                |
| AS3662-3-14 | .865-.885   | .245  | .123  | .97                |
| AS3662-3-15 | .928-.948   | .308  | .186  | 1.01               |
| AS3662-3-16 | .990-1.010  | .370  | .248  | 1.05               |
| AS3662-3-17 | 1.052-1.072 | .432  | .310  | 1.09               |
| AS3662-3-18 | 1.115-1.135 | .495  | .373  | 1.14               |
| AS3662-3-19 | 1.178-1.198 | .558  | .436  | 1.18               |
| AS3662-3-20 | 1.240-1.260 | .620  | .498  | 1.23               |
| AS3662-3-21 | 1.302-1.322 | .682  | .560  | 1.27               |
| AS3662-3-22 | 1.365-1.385 | .745  | .623  | 1.31               |
| AS3662-3-23 | 1.428-1.448 | .808  | .686  | 1.35               |
| AS3662-3-24 | 1.490-1.510 | .870  | .748  | 1.39               |
| AS3662-3-25 | 1.552-1.572 | .932  | .810  | 1.43               |



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TABLE 2 - PART NUMBERS &amp; DIMENSIONS L, M, N, AND APPROX MASS (CONTINUED)

| PART NUMBER | L           | M<br>MAX | N<br>MIN | APPROX<br>MASS<br>LB/100 |
|-------------|-------------|----------|----------|--------------------------|
| AS3662-3-26 | 1.615-1.635 | .995     | .873     | 1.47                     |
| AS3662-3-27 | 1.678-1.698 | 1.058    | .936     | 1.52                     |
| AS3662-3-28 | 1.740-1.760 | 1.120    | .998     | 1.56                     |
| AS3662-3-29 | 1.802-1.822 | 1.182    | 1.060    | 1.60                     |
| AS3662-3-30 | 1.865-1.885 | 1.245    | 1.123    | 1.64                     |
| AS3662-3-31 | 1.928-1.948 | 1.308    | 1.186    | 1.68                     |
| AS3662-3-32 | 1.990-2.010 | 1.370    | 1.248    | 1.73                     |
| AS3662-3-34 | 2.115-2.135 | 1.495    | 1.373    | 1.82                     |
| AS3662-3-36 | 2.240-2.260 | 1.620    | 1.498    | 1.90                     |
| AS3662-3-38 | 2.365-2.385 | 1.745    | 1.623    | 1.98                     |
| AS3662-3-40 | 2.490-2.510 | 1.870    | 1.748    | 2.07                     |
| AS3662-3-42 | 2.615-2.635 | 1.995    | 1.873    | 2.15                     |
| AS3662-3-44 | 2.740-2.760 | 2.120    | 1.998    | 2.23                     |
| AS3662-3-46 | 2.865-2.885 | 2.245    | 2.123    | 2.33                     |
| AS3662-3-48 | 2.990-3.010 | 2.370    | 2.119    | 2.41                     |
| AS3662-3-50 | 3.115-3.135 | 2.495    | 2.244    | 2.49                     |
| AS3662-3-52 | 3.240-3.260 | 2.620    | 2.369    | 2.57                     |
| AS3662-3-54 | 3.365-3.385 | 2.745    | 2.494    | 2.66                     |
| AS3662-3-56 | 3.490-3.510 | 2.780    | 2.619    | 2.74                     |
| AS3662-3-58 | 3.615-3.635 | 2.995    | 2.744    | 2.82                     |
| AS3662-3-60 | 3.740-3.760 | 3.120    | 2.869    | 2.92                     |
| AS3662-3-62 | 3.865-3.885 | 3.245    | 2.994    | 3.00                     |
| AS3662-4-06 | .365- .385  | .099     | .025     | 1.04                     |
| AS3662-4-07 | .428- .448  | .099     | .025     | 1.11                     |
| AS3662-4-08 | .490- .510  | .099     | .025     | 1.18                     |
| AS3662-4-09 | .552- .572  | .099     | .025     | 1.27                     |
| AS3662-4-10 | .615- .635  | .099     | .025     | 1.34                     |
| AS3662-4-11 | .678- .698  | .099     | .025     | 1.41                     |
| AS3662-4-12 | .740- .760  | .099     | .025     | 1.48                     |
| AS3662-4-13 | .802- .822  | .099     | .025     | 1.57                     |
| AS3662-4-14 | .865- .885  | .125     | .025     | 1.64                     |
| AS3662-4-15 | .928- .948  | .188     | .057     | 1.71                     |
| AS3662-4-16 | .990-1.010  | .250     | .119     | 1.80                     |
| AS3662-4-17 | 1.052-1.072 | .312     | .181     | 1.87                     |
| AS3662-4-18 | 1.115-1.135 | .375     | .244     | 1.94                     |
| AS3662-4-19 | 1.178-1.198 | .438     | .307     | 2.01                     |
| AS3662-4-20 | 1.240-1.260 | .500     | .369     | 2.10                     |
| AS3662-4-21 | 1.302-1.322 | .562     | .431     | 2.17                     |
| AS3662-4-22 | 1.365-1.385 | .625     | .494     | 2.24                     |
| AS3662-4-23 | 1.428-1.448 | .688     | .557     | 2.32                     |
| AS3662-4-24 | 1.490-1.510 | .750     | .619     | 2.40                     |
| AS3662-4-25 | 1.552-1.572 | .812     | .681     | 2.47                     |
| AS3662-4-26 | 1.615-1.635 | .875     | .744     | 2.54                     |
| AS3662-4-27 | 1.678-1.698 | .938     | .807     | 2.62                     |
| AS3662-4-28 | 1.740-1.760 | 1.000    | .869     | 2.70                     |
| AS3662-4-29 | 1.802-1.822 | 1.062    | .931     | 2.77                     |
| AS3662-4-30 | 1.865-1.885 | 1.125    | .949     | 2.84                     |



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