

## RATIONALE

DOCUMENT COMPLETELY REVISED THREAD SPEC CALLOUT CORRECTED AND DOCUMENT BROUGHT UP TO DATE.

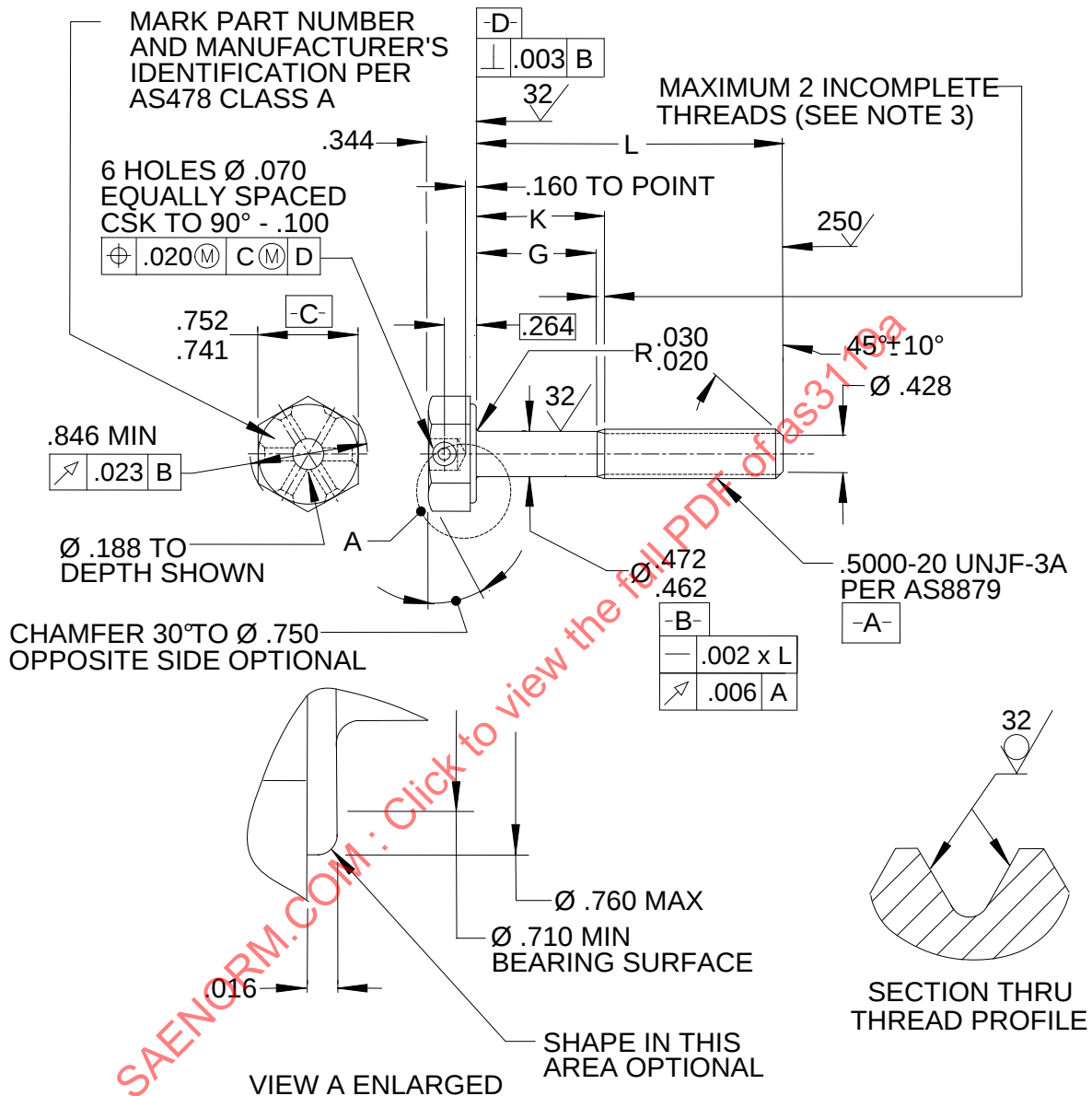
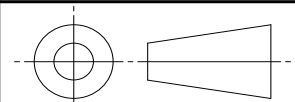


FIGURE 1

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS3119A>

### THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: AS7477



## AEROSPACE STANDARD

(R) BOLT, MACHINE - HEXAGON HEAD,  
DRILLED 6 HOLES, PD SHANK,  
CRES AMS5731, .5000-20 UNJF-3A

**AS3119**  
SHEET 1 OF 3

REV.  
A

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TABLE 1 - DIMENSIONS

| PART NUMBER | L     | G MIN | K MAX | APPROX MASS<br>LB/100 |
|-------------|-------|-------|-------|-----------------------|
| AS3119 -14  | 1.438 | .030  | .188  | 11.39                 |
| AS3119 -15  | 1.500 | .090  | .250  | 11.70                 |
| AS3119 -16  | 1.562 | .152  | .312  | 12.01                 |
| AS3119 -17  | 1.625 | .215  | .375  | 12.32                 |
| AS3119 -18  | 1.688 | .278  | .438  | 12.62                 |
| AS3119 -19  | 1.750 | .340  | .500  | 12.93                 |
| AS3119 -20  | 1.812 | .402  | .562  | 13.24                 |
| AS3119 -21  | 1.875 | .465  | .625  | 13.55                 |
| AS3119 -22  | 1.938 | .528  | .688  | 13.85                 |
| AS3119 -23  | 2.000 | .590  | .750  | 14.16                 |
| AS3119 -24  | 2.125 | .715  | .875  | 14.77                 |
| AS3119 -25  | 2.250 | .840  | 1.000 | 15.39                 |
| AS3119 -26  | 2.375 | .965  | 1.125 | 16.00                 |
| AS3119 -27  | 2.500 | 1.090 | 1.250 | 16.62                 |
| AS3119 -28  | 2.625 | 1.215 | 1.375 | 17.23                 |
| AS3119 -29  | 2.750 | 1.340 | 1.500 | 17.85                 |
| AS3119 -30  | 2.875 | 1.465 | 1.625 | 18.46                 |
| AS3119 -31  | 3.000 | 1.590 | 1.750 | 19.08                 |
| AS3119 -32  | 3.125 | 1.715 | 1.875 | 19.69                 |
| AS3119 -33  | 3.250 | 1.840 | 2.000 | 20.30                 |
| AS3119 -34  | 3.375 | 1.965 | 2.125 | 20.92                 |
| AS3119 -35  | 3.500 | 2.090 | 2.250 | 21.53                 |
| AS3119 -36  | 3.625 | 2.215 | 2.375 | 22.15                 |
| AS3119 -37  | 3.750 | 2.340 | 2.500 | 22.76                 |
| AS3119 -38  | 3.875 | 2.465 | 2.625 | 23.38                 |
| AS3119 -39  | 4.000 | 2.590 | 2.750 | 23.90                 |
| AS3119 -40  | 4.125 | 2.715 | 2.875 | 24.61                 |
| AS3119 -41  | 4.250 | 2.840 | 3.000 | 25.22                 |
| AS3119 -42  | 4.375 | 2.965 | 3.125 | 25.83                 |
| AS3119 -43  | 4.500 | 3.090 | 3.250 | 26.45                 |
| AS3119 -44  | 4.625 | 3.125 | 3.375 | 27.06                 |
| AS3119 -45  | 4.750 | 3.340 | 3.500 | 27.68                 |
| AS3119 -46  | 4.875 | 3.465 | 3.625 | 28.29                 |
| AS3119 -47  | 5.000 | 3.590 | 3.750 | 26.91                 |
| AS3119 -48  | 5.125 | 3.715 | 3.875 | 29.52                 |
| AS3119 -49  | 5.250 | 3.840 | 4.000 | 30.14                 |
| AS3119 -50  | 5.375 | 3.965 | 4.125 | 30.75                 |
| AS3119 -51  | 5.500 | 4.090 | 4.250 | 31.37                 |
| AS3119 -52  | 5.625 | 4.215 | 4.375 | 31.98                 |
| AS3119 -53  | 5.750 | 4.340 | 4.500 | 32.60                 |
| AS3119 -54  | 5.785 | 4.465 | 4.625 | 33.21                 |
| AS3119 -55  | 6.000 | 4.590 | 4.750 | 33.83                 |

FOR SHORT BOLTS THREADED TO HEAD SEE AS9588.

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SHEET 2 OF 3**REV.**  
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