

Instructions: Complete the YELLOW cell entries, I9 to I14, and press the RUN to execute!

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| Sturni-Hueston Engineering Ltd | |
| Permit to Practice - APEGGA P6378 (19 September 1996) | |
| Released By Permission for Limited Use by the General Public | |
| General Purpose Threads - Basic Geometry and Input Datum | |
| Revision 4: 25 August 2003 | |
| Nominal Thread Diameter (Inches) | 0.250 |
| Number of Threads Per Inch (TPI) | 20 |
| Thread Classification: 1G,2G,3G,4G or 5G (Integer) | 2 |
| Number of Thread Starts: 1, 2, 3 or 4 (Integer) | 1 |
| Thread Form? 1=Acme,2=Stub Acme,3=UN (Integer) | 3 |
| UN Series: 1=UN,2=UNC,3=UNE,4=UNF,5=UNS | 2 |

| | | | | | | | |
|-------------------------|---|---|-------|--|-------------------------|-----------------|-------------|
| | | 0.25 - 20 UNC Class 2G Thread - 1 Start | | | | August 25, 2010 | |
| | | | | | | | |
| | | Basic Major Diameter | | | 0.250 | | |
| | | Basic Pitch Diameter | | | 0.218 | | |
| | | Basic Minor Diameter | | | 0.190 | | |
| | | Thread Pitch (Inch Per Thread) | | | 0.050 | | |
| | | | | | | | |
| | External Thread (2A) | | | | Internal Thread (2B) | | |
| | | | | | | | |
| Major Diameter (Inches) | | 0.249 | 0.241 | | Minor Diameter (Inches) | | 0.196 0.207 |
| Pitch Diameter (Inches) | | 0.216 | 0.213 | | Pitch Diameter (Inches) | | 0.218 0.222 |
| Minor Diameter (Inches) | | 0.190 | 0.188 | | Major Diameter (Inches) | | 0.250 0.253 |
| | | | | | | | |
| | Best Wire Size (Inches) | | | | | 0.029 | |
| | Pitch Diameter Using Best Wire Size (Inches) | | | | | 0.256 | 0.260 |
| | Standard Wire Size Selection (Inches) | | | | | 0.029 | |
| | Pitch Diameter Using Standard Wire Size (Inches) | | | | | 0.256 | 0.260 |
| | Tensile Stress Area (Normal) of Thread, Pin (IN^2) | | | | | 0.032 | |
| | Shear Area per Unit Thread Length: Nut by Pin (IN^2 / IN) | | | | | 0.539 | 0.366 |