

BA SCREW THREAD DIMENSIONS

FR-16

BASIC SIZES OF BRITISH ASSOCIATION (B.A.) SCREW THREADS (B.S. 93 : 1951)
Approximate inch and mm. equivalents

| Designation Number | Pitch | | Depth of Thread | | Major Diameter | | Effective Diameter | | Minor Diameter | | Approximate Number of t.p.i. | Approximate Cross-sectional Area at Bottom of Thread | | Designation Number |
|--------------------|---------|----------|-----------------|---------|----------------|---------|--------------------|--------------|----------------|---------|------------------------------|--|----------|--------------------|
| | mm. | in. | mm. | in. | Bolt and Nut | mm. | in. | Bolt and Nut | Bolt and Nut | mm. | | in. | sq. mm. | |
| 0 | 1.000 0 | 0.039 37 | 0.600 | 0.023 6 | 6.00 | 0.236 2 | 5.400 | 0.212 6 | 4.80 | 0.189 0 | 25.4 | 18.10 | 0.028 1 | 0 |
| 1 | 0.900 0 | 0.035 43 | 0.540 | 0.021 3 | 5.30 | 0.208 7 | 4.760 | 0.187 4 | 4.22 | 0.166 1 | 28.2 | 13.99 | 0.021 7 | 1 |
| 2 | 0.810 0 | 0.031 89 | 0.485 | 0.019 1 | 4.70 | 0.185 0 | 4.215 | 0.165 9 | 3.73 | 0.146 8 | 31.3 | 10.93 | 0.016 9 | 2 |
| 3 | 0.730 0 | 0.028 74 | 0.440 | 0.017 3 | 4.10 | 0.161 4 | 3.660 | 0.144 1 | 3.22 | 0.126 8 | 34.8 | 8.14 | 0.012 6 | 3 |
| 4 | 0.660 0 | 0.025 98 | 0.395 | 0.015 6 | 3.60 | 0.141 7 | 3.205 | 0.126 2 | 2.81 | 0.110 6 | 38.5 | 6.20 | 0.009 6 | 4 |
| 5 | 0.590 0 | 0.023 23 | 0.355 | 0.014 0 | 3.20 | 0.126 0 | 2.845 | 0.112 0 | 2.49 | 0.098 0 | 43.1 | 4.87 | 0.007 5 | 5 |
| 6 | 0.530 0 | 0.020 87 | 0.320 | 0.012 6 | 2.80 | 0.110 2 | 2.480 | 0.097 6 | 2.16 | 0.085 0 | 47.9 | 3.66 | 0.005 7 | 6 |
| 7 | 0.480 0 | 0.018 90 | 0.290 | 0.011 4 | 2.50 | 0.098 4 | 2.210 | 0.087 0 | 1.92 | 0.075 6 | 52.9 | 2.89 | 0.004 5 | 7 |
| 8 | 0.430 0 | 0.016 93 | 0.260 | 0.010 2 | 2.20 | 0.086 6 | 1.940 | 0.076 4 | 1.68 | 0.066 1 | 59.1 | 2.22 | 0.003 4 | 8 |
| 9 | 0.390 0 | 0.015 35 | 0.235 | 0.009 3 | 1.90 | 0.074 8 | 1.665 | 0.065 6 | 1.43 | 0.056 3 | 65.1 | 1.61 | 0.002 5 | 9 |
| 10 | 0.350 0 | 0.013 78 | 0.210 | 0.008 3 | 1.70 | 0.066 9 | 1.490 | 0.058 7 | 1.28 | 0.050 4 | 72.6 | 1.29 | 0.002 0 | 10 |
| 11 | 0.310 0 | 0.012 20 | 0.185 | 0.007 3 | 1.50 | 0.059 1 | 1.315 | 0.051 8 | 1.13 | 0.044 5 | 81.9 | 1.00 | 0.001 6 | 11 |
| 12 | 0.280 0 | 0.011 02 | 0.170 | 0.006 7 | 1.30 | 0.051 2 | 1.130 | 0.044 5 | 0.96 | 0.037 8 | 90.7 | 0.72 | 0.001 1 | 12 |
| 13 | 0.250 0 | 0.009 84 | 0.150 | 0.005 9 | 1.20 | 0.047 2 | 1.050 | 0.041 3 | 0.90 | 0.035 4 | 102.0 | 0.64 | 0.001 0 | 13 |
| 14 | 0.230 0 | 0.009 05 | 0.140 | 0.005 5 | 1.00 | 0.039 4 | 0.860 | 0.033 9 | 0.72 | 0.028 3 | 110.0 | 0.41 | 0.000 6 | 14 |
| 15 | 0.210 0 | 0.008 27 | 0.125 | 0.004 9 | 0.90 | 0.035 4 | 0.775 | 0.030 5 | 0.65 | 0.025 6 | 121.0 | 0.33 | 0.000 5 | 15 |
| 16 | 0.190 0 | 0.007 48 | 0.115 | 0.004 5 | 0.79 | 0.031 1 | 0.675 | 0.026 6 | 0.56 | 0.022 0 | 134.0 | 0.25 | 0.000 4 | 16 |
| 17 | 0.170 0 | 0.006 69 | 0.100 | 0.003 9 | 0.70 | 0.027 6 | 0.600 | 0.023 6 | 0.50 | 0.019 7 | 149.0 | 0.20 | 0.000 3 | 17 |
| 18 | 0.150 0 | 0.005 90 | 0.090 | 0.003 5 | 0.62 | 0.024 4 | 0.530 | 0.020 9 | 0.44 | 0.017 3 | 169.0 | 0.15 | 0.000 2 | 18 |
| 19 | 0.140 0 | 0.005 51 | 0.085 | 0.003 3 | 0.54 | 0.021 3 | 0.455 | 0.017 9 | 0.37 | 0.014 6 | 182.0 | 0.11 | 0.000 2 | 19 |
| 20 | 0.120 0 | 0.004 72 | 0.070 | 0.002 8 | 0.48 | 0.018 9 | 0.410 | 0.016 1 | 0.34 | 0.013 4 | 213.0 | 0.091 | 0.000 1 | 20 |
| 21 | 0.110 0 | 0.004 33 | 0.065 | 0.002 6 | 0.42 | 0.016 5 | 0.355 | 0.014 0 | 0.29 | 0.011 4 | 232.0 | 0.066 | 0.000 1 | 21 |
| 22 | 0.100 0 | 0.003 94 | 0.060 | 0.002 4 | 0.37 | 0.014 6 | 0.310 | 0.012 2 | 0.25 | 0.009 8 | 256.0 | 0.049 | 0.000 08 | 22 |
| 23 | 0.090 0 | 0.003 54 | 0.055 | 0.002 2 | 0.33 | 0.013 0 | 0.275 | 0.010 8 | 0.22 | 0.008 7 | 286.0 | 0.038 | 0.000 06 | 23 |
| 24 | 0.080 0 | 0.003 15 | 0.050 | 0.002 0 | 0.29 | 0.011 4 | 0.240 | 0.009 4 | 0.19 | 0.007 5 | 322.0 | 0.028 | 0.000 04 | 24 |
| 25 | 0.070 0 | 0.002 76 | 0.040 | 0.001 6 | 0.25 | 0.009 8 | 0.210 | 0.008 3 | 0.17 | 0.006 7 | 357.0 | 0.023 | 0.000 04 | 25 |

SCREW THREADS