



# Nutter's Fastenings Ltd.

## METRIC & IMPERIAL BOLT & THREAD COMPARISONS

| Metric Diameter (mm) | Equiv. Decimal Inches | Nearest equiv diameter In BA/Inch/Decimal | Nearest Unified Numbered Size | Metric MM Across Flats | Inch Equiv. | UNC Normal Across Flats | UNC Heavy Across Flats | UNF Across Flats | BSW & BSF Across Flats | BA Across Flats | Metric Coarse Pitch (mm) | Metric Fine Pitch (mm) | UNC TPI | UNF TPI | BSW TPI | BSF TPI | BA TPI |
|----------------------|-----------------------|-------------------------------------------|-------------------------------|------------------------|-------------|-------------------------|------------------------|------------------|------------------------|-----------------|--------------------------|------------------------|---------|---------|---------|---------|--------|
| 2                    | 0.078                 | 9BA (.1075)                               | No2 (.086)                    | 4                      | 0.157       |                         |                        |                  |                        | 0.075           | 0.4                      |                        | 56      | 64      |         |         | 65.1   |
| 2.5                  | 0.098                 | 7BA (.1995)                               | No3 (.099)                    | 5                      | 0.197       |                         |                        |                  |                        | 0.172           | 0.45                     |                        | 48      | 56      |         |         | 52.9   |
| 3                    | 0.118                 | 6BA (.110)                                | No4 (.112)                    | 5.5                    | 0.216       | 0.187                   |                        | 0.187            |                        | 0.193           | 0.5                      |                        | 40      | 48      |         |         | 47.9   |
| 3.5                  | 0.137                 | 5BA (1.126)                               | No5 (.125)                    | 6                      | 0.236       |                         |                        |                  |                        | 0.22            | 0.6                      |                        | 40      | 44      |         |         | 43.1   |
| 4                    | 0.157                 | 4BA (.142)                                | No6 (.138)                    | 7                      | 0.276       | 0.25                    |                        | 0.25             |                        | 0.248           | 0.7                      |                        | 32      | 40      |         |         | 38.5   |
|                      |                       | 3BA (.161)                                |                               |                        |             |                         |                        |                  |                        | 0.282           |                          |                        |         |         |         |         | 34.8   |
| 5                    | 0.197                 | 2BA (.194)                                | No8 (.164)                    | 8                      | 0.315       | 0.25                    |                        | 0.25             |                        | 0.324           | 0.8                      |                        | 32      | 36      |         |         | 31.4   |
|                      |                       |                                           | No10 (.190)                   |                        |             | 0.312                   |                        | 0.312            |                        |                 |                          |                        | 24      | 32      |         |         |        |
|                      |                       | 0BA (.236)                                |                               |                        |             |                         |                        |                  |                        | 0.413           |                          |                        |         |         |         |         | 25.4   |
| 6                    | 0.236                 | 1/4 (.250)                                |                               | 10                     | 0.394       | 0.438                   | 0.5                    | 0.438            | 0.445                  |                 | 1                        |                        | 20      | 28      | 20      | 26      |        |
| 8                    | 0.315                 | 5/16 (.312)                               |                               | 13                     | 0.512       | 0.5                     | 0.562                  | 0.5              | 0.525                  |                 | 1.25                     | 1                      | 18      | 24      | 18      | 22      |        |
| 10                   | 0.393                 | 3/8 (.375)                                |                               | 17                     | 0.669       | 0.562                   | 0.687                  | 0.562            | 0.6                    |                 | 1.5                      | 1.25                   | 16      | 24      | 16      | 20      |        |
|                      |                       | 7/16 (0.437)                              |                               |                        |             | 0.625                   |                        | 0.625            | 0.71                   |                 |                          |                        | 14      | 20      | 14      | 18      |        |
| 12                   | 0.472                 | 1/2 (.500)                                |                               | 19                     | 0.748       | 0.75                    | 0.875                  | 0.75             | 0.82                   |                 | 1.75                     | 1.25                   | 13      | 20      | 12      | 16      |        |
| 14                   | 0.551                 | 9/16 (.570)                               |                               | 22                     | 0.866       | 0.875                   | 0.937                  | 0.812            | 0.92                   |                 | 2                        | 1.5                    | 12      | 18      | 12      | 16      |        |
| 16                   | 0.629                 | 5/8 (.625)                                |                               | 24                     | 0.945       | 0.938                   | 1.062                  | 0.938            | 1.01                   |                 | 2                        | 1.5                    | 11      | 18      | 11      | 14      |        |
| 18                   | 0.709                 | 11/16 (.689)                              |                               | 27                     | 1.063       | 1.031                   |                        | 1.031            | 1.2                    |                 | 2.5                      | 1.5                    | 12      |         | 11      | 14      |        |
| 20                   | 0.787                 | 3/4 (.750)                                |                               | 30                     | 1.181       | 1.125                   | 1.25                   | 1.125            | 1.2                    |                 | 2.5                      | 1.5                    | 10      | 16      | 10      | 12      |        |
| 22                   | 0.866                 | 7/8 (.875)                                |                               | 32                     | 1.26        | 1.312                   | 1.437                  | 1.312            | 1.3                    |                 | 2.5                      | 1.5                    | 9       | 14      | 9       | 11      |        |
| 24                   | 0.945                 | 1 (1.000)                                 |                               | 36                     | 1.417       | 1.5                     | 1.625                  | 1.5              | 1.48                   |                 | 3                        | 2                      | 8       | 12      | 8       | 10      |        |
| 27                   | 1.063                 | 1 1/8 (1.125)                             |                               | 41                     | 1.614       | 1.687                   | 1.812                  | 1.687            | 1.67                   |                 | 3                        | 2                      | 7       | 12      | 7       | 9       |        |
| 30                   | 0.181                 | 1 1/4 (1.250)                             |                               | 46                     | 1.811       | 1.875                   | 2                      | 1.875            | 1.86                   |                 | 3.5                      | 2                      | 7       | 12      | 7       | 9       |        |
| 33                   | 1.299                 | 1 3/8 (1.375)                             |                               | 50                     | 1.968       | 2.062                   | 2.187                  | 2.062            | 2.05                   |                 | 3.5                      | 2                      | 6       | 12      | 6       | 8       |        |
| 36                   | 1.417                 | 1 1/2 (1.500)                             |                               | 55                     | 2.166       | 2.25                    | 2.375                  | 2.25             | 2.22                   |                 | 4                        | 3                      | 6       | 12      | 6       | 8       |        |
| 39                   | 1.535                 | 1 5/8 (1.634)                             |                               | 60                     | 2.362       | 2.437                   | 2.562                  | 2.437            | 2.41                   |                 | 4                        | 3                      | 6       |         | 5       |         |        |
| 42                   | 1.653                 | 1 3/4 (1.752)                             |                               | 65                     | 2.559       | 2.625                   | 2.75                   | 2.625            | 2.58                   |                 | 4.5                      |                        | 5       |         | 5       | 7       |        |
| 48                   | 1.889                 | 1 7/8 (1.889)                             |                               | 75                     | 2.953       | 2.812                   | 2.937                  | 2.812            |                        |                 | 5                        |                        | 5       |         | 4.5     |         |        |
| 52                   | 2.047                 | 2 (2.000)                                 |                               | 80                     | 3.149       | 3                       | 3.25                   | 3                | 2.76                   |                 | 5                        |                        | 4.5     |         | 4.5     | 7       |        |
| 56                   | 2.204                 | 2 1/4 (2.250)                             |                               | 85                     | 3.346       | 3.375                   | 3.5                    | 3.375            | 3.15                   |                 | 5.5                      |                        | 4.5     |         | 4       | 6       |        |
| 60                   | 2.362                 | 2 3/8 (2.375)                             |                               | 90                     | 3.543       | 3.562                   |                        | 3.562            | 3.34                   |                 | 5.5                      |                        | 4       |         | 6       |         |        |
| 64                   | 2.519                 | 2 1/2 (2.500)                             |                               | 95                     | 3.74        | 3.75                    | 3.875                  | 3.75             | 3.55                   |                 | 6                        |                        | 4       |         | 4       | 6       |        |
| 68                   | 2.677                 | 2 3/4 (2.750)                             |                               | 100                    | 3.937       | 4.125                   | 4.25                   | 4.125            | 3.89                   |                 | 6                        |                        | 4       |         | 3.5     | 6       |        |
| 72                   | 2.834                 | 2 7/8 (2.875)                             |                               | 105                    | 4.133       | 4.312                   |                        | 4.312            | 4.05                   |                 | 6                        |                        | 4       |         | 3.5     |         |        |
| 76                   | 2.992                 | 3 (3.000)                                 |                               | 110                    | 4.329       | 4.5                     | 4.652                  | 4.5              | 4.18                   |                 | 6                        |                        | 4       |         | 3.5     | 5       |        |
| 80                   | 3.149                 | 3 1/8 (3.125)                             |                               | 115                    | 4.525       | 4.687                   |                        | 4.687            | 4.34                   |                 | 6                        |                        | 4       |         | 3.5     |         |        |