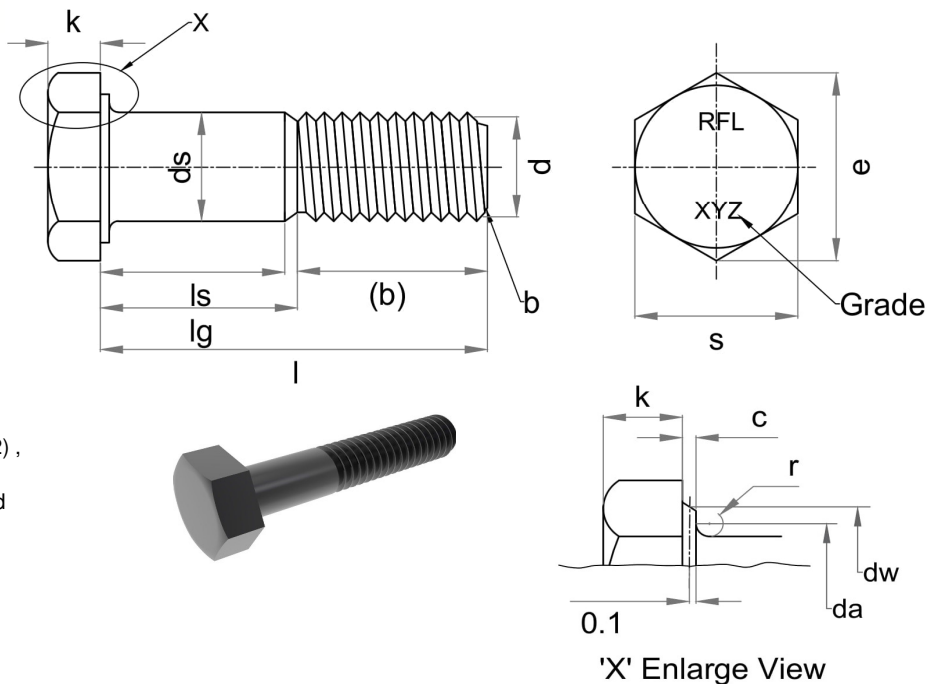


Hexagon Bolt – ISO 4014

Metric Series – Dimensions

Notes:-

1. The Bolt will be according to ISO 4014.
2. Threads will conform to Class 6g of ISO 724 & ISO 965-1.
3. Material High grade carbon/ alloy steel & stainless steel According to ISO 898-1.
4. Heat Treatment: Property Class 8 or 10.
5. $\beta=15^\circ$ to 30° .
6. In Hot Dip Galvanizing Diameters will be reduced 0.3 mm.
7. Threading Length of bolts according to total length of bolts.
 { (Total length $\leq 125 = 2d+6$), ($125 < \text{Total length} < 200 = 2d+12$),
 (Total length $> 200 = 2d+25$) }
8. Point shall be chamfered or for threads $\leq M4$ may be as-rolled (sheared end) in the accordance with ISO 4753.
9. Incomplete thread $u = \leq 2P$.
10. Reference datum for dw .
11. Maximum under head fillet.
12. Chamfer (b) is Double of Pitch ($b = 2P$).
13. All dimensions are in millimetres.



| S. No. | Size | Pitch (p) | Width across corner (e) | | Width across Flat (s) | | Thickness (k) | | da | dw | Shank diameter (ds) | | Radius (r) | | Washer height (c) | | Major Diameter (D) | | Pitch Diameter (D1) | | Minor Diameter (D2) |
|--------|------|-----------|-------------------------|-------|-----------------------|-------|---------------|-------|-------|-------|---------------------|------|------------|------|-------------------|-------|--------------------|-------|---------------------|------|---------------------|
| | | | Min. | Max. | Min. | Max. | Min. | Max. | | | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | |
| 1 | M-16 | 2.00 | 26.17 | 23.16 | 24.00 | 9.71 | 10.29 | 17.70 | 22.00 | 15.57 | 16.00 | 0.60 | 0.20 | 0.80 | 15.68 | 15.96 | 14.50 | 14.60 | 13.80 | | |
| 2 | M-18 | 2.50 | 29.56 | 26.16 | 27.00 | 11.15 | 11.85 | 20.20 | 24.85 | 17.57 | 18.00 | 0.60 | 0.20 | 0.80 | 17.62 | 17.96 | 16.15 | 16.25 | 15.25 | | |
| 3 | M-20 | 2.50 | 32.95 | 29.16 | 30.00 | 12.15 | 12.85 | 22.40 | 27.70 | 19.48 | 20.00 | 0.80 | 0.20 | 0.80 | 19.62 | 19.96 | 18.15 | 18.25 | 17.25 | | |
| 4 | M-22 | 2.50 | 37.29 | 33.00 | 34.00 | 13.65 | 14.35 | 24.40 | 31.35 | 21.48 | 22.00 | 0.80 | 0.20 | 0.80 | 21.62 | 21.96 | 20.15 | 20.25 | 19.25 | | |
| 5 | M-24 | 3.00 | 39.55 | 35.00 | 36.00 | 14.65 | 15.35 | 26.40 | 33.25 | 23.48 | 24.00 | 0.80 | 0.20 | 0.80 | 23.58 | 23.95 | 21.80 | 21.90 | 20.74 | | |
| 6 | M-27 | 3.00 | 45.20 | 40.00 | 41.00 | 16.65 | 17.35 | 30.40 | 38.00 | 26.48 | 27.00 | 1.00 | 0.20 | 0.80 | 26.58 | 26.95 | 24.80 | 24.90 | 23.70 | | |
| 7 | M30 | 3.50 | 50.85 | 53.80 | 55.00 | 18.18 | 19.12 | 39.40 | 42.75 | 29.48 | 30.00 | 1.00 | 0.20 | 0.80 | 29.52 | 29.95 | 27.50 | 27.60 | 26.16 | | |
| 8 | M-33 | 3.50 | 55.37 | 49.00 | 50.00 | 20.58 | 21.42 | 36.40 | 46.55 | 32.38 | 33.00 | 1.00 | 0.20 | 0.80 | 32.52 | 32.95 | 30.45 | 30.55 | 29.16 | | |
| 9 | M-36 | 4.00 | 60.79 | 53.80 | 55.00 | 22.08 | 22.92 | 39.40 | 51.11 | 35.38 | 36.00 | 1.00 | 0.20 | 0.80 | 35.46 | 35.94 | 33.15 | 33.25 | 31.61 | | |
| 10 | M-39 | 4.00 | 66.44 | 58.80 | 60.00 | 24.58 | 25.42 | 42.40 | 55.86 | 38.38 | 39.00 | 1.00 | 0.30 | 1.00 | 38.46 | 38.94 | 36.20 | 36.30 | 34.61 | | |
| 11 | M-42 | 4.50 | 71.30 | 63.10 | 65.00 | 25.58 | 26.42 | 45.60 | 59.95 | 41.38 | 42.00 | 1.20 | 0.30 | 1.00 | 41.44 | 41.94 | 38.80 | 38.90 | 37.07 | | |
| 12 | M-45 | 4.50 | 76.95 | 68.10 | 70.00 | 27.58 | 28.42 | 48.60 | 64.70 | 44.38 | 45.00 | 1.20 | 0.30 | 1.00 | 44.44 | 44.94 | 41.80 | 41.90 | 40.07 | | |
| 13 | M-48 | 5.00 | 82.60 | 73.10 | 75.00 | 29.58 | 30.42 | 52.60 | 69.45 | 47.38 | 48.00 | 1.60 | 0.30 | 1.00 | 47.40 | 47.93 | 44.50 | 44.60 | 42.52 | | |
| 14 | M-52 | 5.00 | 88.25 | 78.10 | 80.00 | 32.50 | 33.50 | 56.60 | 74.20 | 51.26 | 52.00 | 1.60 | 0.30 | 1.00 | 51.40 | 51.93 | 48.50 | 48.60 | 46.52 | | |
| 15 | M-56 | 5.50 | 93.56 | 82.80 | 85.00 | 34.50 | 35.50 | 63.00 | 78.66 | 55.26 | 56.00 | 2.00 | 0.30 | 1.00 | 55.36 | 55.92 | 52.10 | 52.20 | 49.97 | | |
| 16 | M-60 | 5.50 | 99.21 | 87.80 | 90.00 | 37.50 | 38.50 | 67.00 | 83.41 | 59.26 | 60.00 | 2.00 | 0.30 | 1.00 | 59.36 | 59.92 | 57.85 | 57.95 | 53.97 | | |
| 17 | M-64 | 6.00 | 104.86 | 92.80 | 95.00 | 39.50 | 40.50 | 71.00 | 88.16 | 63.26 | 64.00 | 2.00 | 0.30 | 1.00 | 63.32 | 63.92 | 59.80 | 59.90 | 57.42 | | |

Hexagon Bolt – ISO 4014

| L | Total Length | | M-16 | | M-16 thread length | | M-18 | | M-18 thread length | | M-20 | | M-20 thread length | | M-22 | | M-22 thread length | | M-24 | | M-24 thread length | | M-27 | | M-27 thread length | | M-30 | | M-30 thread length | | M-33 | | M-33 thread length | | M-36 | |
|-----|--------------|--------|--------|--------|--------------------|-------|--------|--------|--------------------|-------|--------|--------|--------------------|-------|--------|--------|--------------------|-------|--------|--------|--------------------|-------|--------|--------|--------------------|-------|--------|--------|--------------------|-------|--------|--------|--------------------|-------|--------|--------|
| | Min. | Max. | ls | Lg | Min | Max | ls | Lg | Min | Max | ls | Lg | Min | Max | ls | Lg | Min | Max | ls | Lg | Min | Max | ls | Lg | Min | Max | ls | Lg | Min | Max | ls | Lg | Min | Max | ls | Lg |
| | | | min. | max. | Min | Max | min. | max. | Min | Max | min. | max. | Min | Max | min. | max. | Min | Max | min. | max. | Min | Max | min. | max. | Min | Max | min. | max. | Min | Max | min. | max. | Min | Max | min. | max. |
| 70 | 68.50 | 71.50 | 22.00 | 32.00 | 38.00 | 39.00 | 15.50 | 28.00 | 42.00 | 43.00 | 11.50 | 24.00 | 46.00 | 47.00 | | | | | | | | | | | | | | | | | | | | | | |
| 80 | 78.50 | 81.50 | 32.00 | 42.00 | 38.00 | 39.00 | 25.50 | 38.00 | 42.00 | 43.00 | 21.50 | 34.00 | 46.00 | 47.00 | | | | | | | | | | | | | | | | | | | | | | |
| 90 | 88.25 | 91.75 | 42.00 | 52.00 | 38.00 | 39.00 | 35.50 | 48.00 | 42.00 | 43.00 | 31.50 | 44.00 | 46.00 | 47.00 | 27.50 | 40.00 | 50.00 | 51.00 | 21.00 | 36.00 | 54.00 | 55.00 | | | | | | | | | | | | | | |
| 100 | 98.25 | 101.75 | 52.00 | 62.00 | 38.00 | 39.00 | 45.50 | 58.00 | 42.00 | 43.00 | 41.50 | 54.00 | 46.00 | 47.00 | 37.50 | 50.00 | 50.00 | 51.00 | 31.00 | 46.00 | 54.00 | 55.00 | 25.00 | 40.00 | 60.00 | 61.00 | 16.50 | 34.00 | 66.00 | 67.00 | | | | | | |
| 110 | 108.25 | 111.75 | 62.00 | 72.00 | 38.00 | 39.00 | 55.50 | 68.00 | 42.00 | 43.00 | 51.50 | 64.00 | 46.00 | 47.00 | 47.50 | 60.00 | 50.00 | 51.00 | 41.00 | 56.00 | 54.00 | 55.00 | 35.00 | 50.00 | 60.00 | 61.00 | 26.50 | 44.00 | 66.00 | 67.00 | | | | | | |
| 120 | 118.25 | 121.75 | 72.00 | 82.00 | 38.00 | 39.00 | 65.50 | 78.00 | 42.00 | 43.00 | 61.50 | 74.00 | 46.00 | 47.00 | 57.50 | 70.00 | 50.00 | 51.00 | 51.00 | 66.00 | 54.00 | 55.00 | 45.00 | 60.00 | 60.00 | 61.00 | 36.50 | 54.00 | 66.00 | 67.00 | | | | | | |
| 130 | 128.00 | 132.00 | 76.00 | 86.00 | 44.00 | 45.00 | 69.50 | 82.00 | 48.00 | 49.00 | 65.50 | 78.00 | 52.00 | 53.00 | 61.50 | 74.00 | 56.00 | 57.00 | 78.00 | 55.00 | 60.00 | 61.00 | 49.00 | 64.00 | 66.00 | 67.00 | 40.50 | 58.00 | 72.00 | 73.00 | 34.50 | 52.00 | 78.00 | 79.00 | 26.00 | 46.00 |
| 140 | 138.00 | 142.00 | 86.00 | 96.00 | 44.00 | 45.00 | 79.50 | 92.00 | 48.00 | 49.00 | 75.50 | 88.00 | 52.00 | 53.00 | 71.50 | 84.00 | 56.00 | 57.00 | 88.00 | 65.00 | 60.00 | 61.00 | 59.00 | 74.00 | 66.00 | 67.00 | 50.50 | 68.00 | 72.00 | 73.00 | 44.50 | 62.00 | 78.00 | 79.00 | 36.00 | 56.00 |
| 150 | 148.00 | 152.00 | 96.00 | 106.00 | 44.00 | 45.00 | 89.50 | 102.00 | 48.00 | 49.00 | 85.50 | 98.00 | 52.00 | 53.00 | 81.50 | 94.00 | 56.00 | 57.00 | 98.00 | 75.00 | 60.00 | 61.00 | 69.00 | 84.00 | 66.00 | 67.00 | 60.50 | 78.00 | 72.00 | 73.00 | 54.50 | 72.00 | 78.00 | 79.00 | 46.00 | 66.00 |
| 160 | 158.00 | 162.00 | 106.00 | 116.00 | 44.00 | 45.00 | 99.50 | 112.00 | 48.00 | 49.00 | 95.50 | 108.00 | 52.00 | 53.00 | 91.50 | 104.00 | 56.00 | 57.00 | 108.00 | 85.00 | 60.00 | 61.00 | 79.00 | 94.00 | 66.00 | 67.00 | 70.50 | 88.00 | 72.00 | 73.00 | 64.50 | 82.00 | 78.00 | 79.00 | 56.00 | 76.00 |
| 170 | 168.00 | 172.00 | 116.00 | 126.00 | 44.00 | 45.00 | 109.50 | 122.00 | 48.00 | 49.00 | 105.50 | 118.00 | 52.00 | 53.00 | 101.50 | 114.00 | 56.00 | 57.00 | 118.00 | 95.00 | 60.00 | 61.00 | 89.00 | 104.00 | 66.00 | 67.00 | 80.50 | 98.00 | 72.00 | 73.00 | 74.50 | 92.00 | 78.00 | 79.00 | 66.00 | 86.00 |
| 180 | 178.00 | 182.00 | 126.00 | 136.00 | 44.00 | 45.00 | 119.50 | 132.00 | 48.00 | 49.00 | 115.50 | 128.00 | 52.00 | 53.00 | 111.50 | 124.00 | 56.00 | 57.00 | 128.00 | 105.00 | 60.00 | 61.00 | 99.00 | 114.00 | 66.00 | 67.00 | 90.50 | 108.00 | 72.00 | 73.00 | 84.50 | 102.00 | 78.00 | 79.00 | 76.00 | 96.00 |
| 190 | 188.00 | 192.00 | 136.00 | 146.00 | 44.00 | 45.00 | 129.50 | 142.00 | 48.00 | 49.00 | 125.50 | 138.00 | 52.00 | 53.00 | 121.50 | 134.00 | 56.00 | 57.00 | 138.00 | 115.00 | 60.00 | 61.00 | 109.00 | 124.00 | 66.00 | 67.00 | 100.50 | 118.00 | 72.00 | 73.00 | 94.50 | 112.00 | 78.00 | 79.00 | 86.00 | 106.00 |
| 200 | 197.70 | 202.30 | 146.00 | 156.00 | 44.00 | 45.00 | 139.50 | 152.00 | 48.00 | 49.00 | 135.50 | 148.00 | 52.00 | 53.00 | 131.50 | 144.00 | 56.00 | 57.00 | 148.00 | 125.00 | 60.00 | 61.00 | 119.00 | 134.00 | 66.00 | 67.00 | 110.50 | 128.00 | 72.00 | 73.00 | 104.50 | 122.00 | 78.00 | 79.00 | 96.00 | 116.00 |
| 210 | 207.70 | 212.30 | 143.00 | 153.00 | 57.00 | 58.00 | 136.50 | 149.00 | 61.00 | 62.00 | 132.50 | 145.00 | 65.00 | 66.00 | 128.50 | 141.00 | 69.00 | 70.00 | 122.00 | 137.00 | 73.00 | 74.00 | 116.00 | 131.00 | 79.00 | 80.00 | 107.50 | 125.00 | 85.00 | 86.00 | 101.50 | 119.00 | 91.00 | 92.00 | 93.00 | 113.00 |
| 220 | 217.70 | 222.30 | 153.00 | 163.00 | 57.00 | 58.00 | 146.50 | 159.00 | 61.00 | 62.00 | 142.50 | 155.00 | 65.00 | 66.00 | 138.50 | 151.00 | 69.00 | 70.00 | 132.00 | 147.00 | 73.00 | 74.00 | 126.00 | 141.00 | 79.00 | 80.00 | 117.50 | 135.00 | 85.00 | 86.00 | 111.50 | 129.00 | 91.00 | 92.00 | 103.00 | 123.00 |
| 230 | 227.70 | 232.30 | 163.00 | 173.00 | 57.00 | 58.00 | 156.50 | 169.00 | 61.00 | 62.00 | 152.50 | 165.00 | 65.00 | 66.00 | 148.50 | 161.00 | 69.00 | 70.00 | 142.00 | 157.00 | 73.00 | 74.00 | 136.00 | 151.00 | 79.00 | 80.00 | 127.50 | 145.00 | 85.00 | 86.00 | 121.50 | 139.00 | 91.00 | 92.00 | 113.00 | 133.00 |
| 240 | 237.70 | 242.30 | 173.00 | 183.00 | 57.00 | 58.00 | 166.50 | 179.00 | 61.00 | 62.00 | 162.50 | 175.00 | 65.00 | 66.00 | 158.50 | 171.00 | 69.00 | 70.00 | 152.00 | 167.00 | 73.00 | 74.00 | 146.00 | 161.00 | 79.00 | 80.00 | 137.50 | 155.00 | 85.00 | 86.00 | 131.50 | 149.00 | 91.00 | 92.00 | 123.00 | 143.00 |
| 250 | 247.70 | 252.30 | 183.00 | 193.00 | 57.00 | 58.00 | 176.50 | 189.00 | 61.00 | 62.00 | 172.50 | 185.00 | 65.00 | 66.00 | 168.50 | 181.00 | 69.00 | 70.00 | 162.00 | 177.00 | 73.00 | 74.00 | 156.00 | 171.00 | 79.00 | 80.00 | 147.50 | 165.00 | 85.00 | 86.00 | 141.50 | 159.00 | 91.00 | 92.00 | 133.00 | 153.00 |
| 260 | 257.40 | 262.60 | 193.00 | 203.00 | 57.00 | 58.00 | 186.50 | 199.00 | 61.00 | 62.00 | 182.50 | 195.00 | 65.00 | 66.00 | 178.50 | 191.00 | 69.00 | 70.00 | 172.00 | 187.00 | 73.00 | 74.00 | 166.00 | 181.00 | 79.00 | 80.00 | 157.50 | 175.00 | 85.00 | 86.00 | 151.50 | 169.00 | 91.00 | 92.00 | 143.00 | 163.00 |
| 270 | 267.40 | 272.60 | 203.00 | 213.00 | 57.00 | 58.00 | 196.50 | 209.00 | 61.00 | 62.00 | 192.50 | 205.00 | 65.00 | 66.00 | 188.50 | 201.00 | 69.00 | 70.00 | 182.00 | 197.00 | 73.00 | 74.00 | 176.00 | 191.00 | 79.00 | 80.00 | 167.50 | 185.00 | 85.00 | 86.00 | 161.50 | 179.00 | 91.00 | 92.00 | 153.00 | 173.00 |
| 280 | 277.40 | 282.60 | 213.00 | 223.00 | 57.00 | 58.00 | 206.50 | 219.00 | 61.00 | 62.00 | 202.50 | 215.00 | 65.00 | 66.00 | 198.50 | 211.00 | 69.00 | 70.00 | 192.00 | 207.00 | 73.00 | 74.00 | 186.00 | 201.00 | 79.00 | 80.00 | 177.50 | 195.00 | 85.00 | 86.00 | 171.50 | 189.00 | 91.00 | 92.00 | 163.00 | 183.00 |
| 290 | 287.40 | 292.60 | 223.00 | 233.00 | 57.00 | 58.00 | 216.50 | 229.00 | 61.00 | 62.00 | 212.50 | 225.00 | 65.00 | 66.00 | 208.50 | 221.00 | 69.00 | 70.00 | 202.00 | 217.00 | 73.00 | 74.00 | 196.00 | 211.00 | 79.00 | 80.00 | 187.50 | 205.00 | 85.00 | 86.00 | 181.50 | 199.00 | 91.00 | 92.00 | 173.00 | 193.00 |
| 300 | 297.40 | 302.60 | 233.00 | 243.00 | 57.00 | 58.00 | 226.50 | 239.00 | 61.00 | 62.00 | 222.50 | 235.00 | 65.00 | 66.00 | 218.50 | 231.00 | 69.00 | 70.00 | 212.00 | 227.00 | 73.00 | 74.00 | 206.00 | 221.00 | 79.00 | 80.00 | 197.50 | 215.00 | 85.00 | 86.00 | 191.50 | 209.00 | 91.00 | 92.00 | 183.00 | 203.00 |
| 310 | 307.40 | 312.60 | 243.00 | 253.00 | 57.00 | 58.00 | 236.50 | 249.00 | 61.00 | 62.00 | 232.50 | 245.00 | 65.00 | 66.00 | 228.50 | 241.00 | 69.00 | 70.00 | 222.00 | 237.00 | 73.00 | 74.00 | 216.00 | 231.00 | 79.00 | 80.00 | 207.50 | 225.00 | 85.00 | 86.00 | 201.50 | 219.00 | 91.00 | 92.00 | 193.00 | 213.00 |
| 320 | 317.15 | 322.85 | 253.00 | 263.00 | 57.00 | 58.00 | 246.50 | 259.00 | 61.00 | 62.00 | 242.50 | 255.00 | 65.00 | 66.00 | 238.50 | 251.00 | 69.00 | 70.00 | 232.00 | 247.00 | 73.00 | 74.00 | 226.00 | 241.00 | 79.00 | 80.00 | 217.50 | 235.00 | 85.00 | 86.00 | 211.50 | 229.00 | 91.00 | 92.00 | 203.00 | 223.00 |
| 330 | 327.15 | 332.85 | 263.00 | 273.00 | 57.00 | 58.00 | 256.50 | 269.00 | 61.00 | 62.00 | 252.50 | 265.00 | 65.00 | 66.00 | 248.50 | 261.00 | 69.00 | 70.00 | 242.00 | 257.00 | 73.00 | 74.00 | 236.00 | 251.00 | 79.00 | 80.00 | 227.50 | 245.00 | 85.00 | 86.00 | 221.50 | 239.00 | 91.00 | 92.00 | 213.00 | 233.00 |
| 340 | 337.15 | 342.85 | 273.00 | 283.00 | 57.00 | 58.00 | 266.50 | 279.00 | 61.00 | 62.00 | 262.50 | 275.00 | 65.00 | 66.00 | 258.50 | 271.00 | 69.00 | 70.00 | 252.00 | 267.00 | 73.00 | 74.00 | 246.00 | 261.00 | 79.00 | 80.00 | 237.50 | 255.00 | 85.00 | 86.00 | 231.50 | 249.00 | 91.00 | 92.00 | 223.00 | 243.00 |
| 350 | 347.15 | 352.85 | 283.00 | 293.00 | 57.00 | 58.00 | 276.50 | 289.00 | 61.00 | 62.00 | 272.50 | 285.00 | 65.00 | 66.00 | 268.50 | 281.00 | 69.00 | 70.00 | 262.00 | 277.00 | 73.00 | 74.00 | 256.00 | 271.00 | 79.00 | 80.00 | 247.50 | 265.00 | 85.00 | 86.00 | 241.50 | 259.00 | 91.00 | 92.00 | 233.00 | 253.00 |
| 360 | 357.15 | 362.85 | 293.00 | 303.00 | 57.00 | 58.00 | 286.50 | 299.00 | 61.00 | 62.00 | 282.50 | 295.00 | 65.00 | 66.00 | 278.50 | 291.00 | 69.00 | 70.00 | 272.00 | 287.00 | 73.00 | 74.00 | 266.00 | 281.00 | 79.00 | 80.00 | 257.50 | 275.00 | 85.00 | 86.00 | 251.50 | 269.00 | 91.00 | 92.00 | 243.00 | 263.00 |
| 370 | 367.15 | 372.85 | 303.00 | 313.00 | 57.00 | 58.00 | 296.50 | 309.00 | 61.00 | 62.00 | 292.50 | 305.00 | 65.00 | 66.00 | 288.50 | 30 | | | | | | | | | | | | | | | | | | | | |

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| L | Total Length | | M-36 thread length | | M-39 | | M-39 thread length | | M-42 | | M-42 thread length | | M-45 | | M-45 thread length | | M-48 | | M-48 thread length | | M-52 | | M-52 thread length | | M-56 | | M-56 thread length | | M-60 | | M-60 thread length | | M-64 | | M-64 thread length | | |
|-----|--------------|--------|--------------------|-------|--------|--------|--------------------|--------|--------|--------|--------------------|--------|--------|--------|--------------------|--------|--------|--------|--------------------|--------|--------|--------|--------------------|--------|--------|--------|--------------------|--------|--------|--------|--------------------|--------|--------|--------|--------------------|--------|--|
| | Min. | Max. | Min | Max | ls | Lg | Min | Max | ls | Lg | Min | Max | ls | Lg | Min | Max | ls | Lg | Min | Max | ls | Lg | Min. | Max. | ls | Lg | Min | Max | ls | Lg | Min | Max | ls | Lg | Min | Max | |
| 70 | 68.50 | 71.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80 | 78.50 | 81.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90 | 88.25 | 91.75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 98.25 | 101.75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 110 | 108.25 | 111.75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 120 | 118.25 | 121.75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 130 | 128.00 | 132.00 | 84.00 | 85.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 140 | 138.00 | 142.00 | 84.00 | 85.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 150 | 148.00 | 152.00 | 84.00 | 85.00 | 40.00 | 60.00 | 90.00 | 91.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 160 | 158.00 | 162.00 | 84.00 | 85.00 | 50.00 | 70.00 | 90.00 | 91.00 | 41.50 | 64.00 | 96.00 | 97.00 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 170 | 168.00 | 172.00 | 84.00 | 85.00 | 60.00 | 80.00 | 90.00 | 91.00 | 51.50 | 74.00 | 96.00 | 97.00 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 180 | 178.00 | 182.00 | 84.00 | 85.00 | 70.00 | 90.00 | 90.00 | 91.00 | 61.50 | 84.00 | 96.00 | 97.00 | 55.50 | 78.00 | 102.00 | 103.00 | 47.00 | 72.00 | 108.00 | 109.00 | | | | | | | | | | | | | | | | | |
| 190 | 188.00 | 192.00 | 84.00 | 85.00 | 80.00 | 100.00 | 90.00 | 91.00 | 71.50 | 94.00 | 96.00 | 97.00 | 65.50 | 88.00 | 102.00 | 103.00 | 57.00 | 82.00 | 108.00 | 109.00 | | | | | | | | | | | | | | | | | |
| 200 | 197.70 | 202.30 | 84.00 | 85.00 | 90.00 | 110.00 | 90.00 | 91.00 | 81.50 | 104.00 | 96.00 | 97.00 | 75.50 | 98.00 | 102.00 | 103.00 | 67.00 | 92.00 | 108.00 | 109.00 | 59.00 | 84.00 | 116.00 | 117.00 | | | | | | | | | | | | | |
| 210 | 207.70 | 212.30 | 97.00 | 98.00 | 87.00 | 107.00 | 103.00 | 104.00 | 78.50 | 101.00 | 109.00 | 110.00 | 72.50 | 95.00 | 115.00 | 116.00 | 74.00 | 99.00 | 121.00 | 122.00 | 56.00 | 81.00 | 129.00 | 130.00 | 45.50 | 73.00 | 137.00 | 138.00 | 37.50 | 65.00 | 145.00 | 146.00 | 27.00 | 57.00 | 153.00 | 154.00 | |
| 220 | 217.70 | 222.30 | 97.00 | 98.00 | 97.00 | 117.00 | 103.00 | 104.00 | 88.50 | 111.00 | 109.00 | 110.00 | 82.50 | 105.00 | 115.00 | 116.00 | 84.00 | 109.00 | 121.00 | 122.00 | 66.00 | 91.00 | 129.00 | 130.00 | 55.50 | 83.00 | 137.00 | 138.00 | 47.50 | 75.00 | 145.00 | 146.00 | 37.00 | 67.00 | 153.00 | 154.00 | |
| 230 | 227.70 | 232.30 | 97.00 | 98.00 | 107.00 | 127.00 | 103.00 | 104.00 | 98.50 | 121.00 | 109.00 | 110.00 | 92.50 | 115.00 | 115.00 | 116.00 | 94.00 | 119.00 | 121.00 | 122.00 | 76.00 | 101.00 | 129.00 | 130.00 | 65.50 | 93.00 | 137.00 | 138.00 | 57.50 | 85.00 | 145.00 | 146.00 | 47.00 | 77.00 | 153.00 | 154.00 | |
| 240 | 237.70 | 242.30 | 97.00 | 98.00 | 117.00 | 137.00 | 103.00 | 104.00 | 108.50 | 131.00 | 109.00 | 110.00 | 102.50 | 125.00 | 115.00 | 116.00 | 104.00 | 129.00 | 121.00 | 122.00 | 86.00 | 111.00 | 129.00 | 130.00 | 75.50 | 103.00 | 137.00 | 138.00 | 67.50 | 95.00 | 145.00 | 146.00 | 57.00 | 87.00 | 153.00 | 154.00 | |
| 250 | 247.70 | 252.30 | 97.00 | 98.00 | 127.00 | 147.00 | 103.00 | 104.00 | 118.50 | 141.00 | 109.00 | 110.00 | 112.50 | 135.00 | 115.00 | 116.00 | 114.00 | 139.00 | 121.00 | 122.00 | 96.00 | 121.00 | 129.00 | 130.00 | 85.50 | 113.00 | 137.00 | 138.00 | 77.50 | 105.00 | 145.00 | 146.00 | 67.00 | 97.00 | 153.00 | 154.00 | |
| 260 | 257.40 | 262.60 | 97.00 | 98.00 | 137.00 | 157.00 | 103.00 | 104.00 | 128.50 | 151.00 | 109.00 | 110.00 | 122.50 | 145.00 | 115.00 | 116.00 | 124.00 | 149.00 | 121.00 | 122.00 | 106.00 | 131.00 | 129.00 | 130.00 | 95.50 | 123.00 | 137.00 | 138.00 | 87.50 | 115.00 | 145.00 | 146.00 | 77.00 | 107.00 | 153.00 | 154.00 | |
| 270 | 267.40 | 272.60 | 97.00 | 98.00 | 147.00 | 167.00 | 103.00 | 104.00 | 138.50 | 161.00 | 109.00 | 110.00 | 132.50 | 155.00 | 115.00 | 116.00 | 134.00 | 159.00 | 121.00 | 122.00 | 116.00 | 141.00 | 129.00 | 130.00 | 105.50 | 133.00 | 137.00 | 138.00 | 97.50 | 125.00 | 145.00 | 146.00 | 87.00 | 117.00 | 153.00 | 154.00 | |
| 280 | 277.40 | 282.60 | 97.00 | 98.00 | 157.00 | 177.00 | 103.00 | 104.00 | 148.50 | 171.00 | 109.00 | 110.00 | 142.50 | 165.00 | 115.00 | 116.00 | 144.00 | 169.00 | 121.00 | 122.00 | 126.00 | 151.00 | 129.00 | 130.00 | 115.50 | 143.00 | 137.00 | 138.00 | 107.50 | 135.00 | 145.00 | 146.00 | 97.00 | 127.00 | 153.00 | 154.00 | |
| 290 | 287.40 | 292.60 | 97.00 | 98.00 | 167.00 | 187.00 | 103.00 | 104.00 | 158.50 | 181.00 | 109.00 | 110.00 | 152.50 | 175.00 | 115.00 | 116.00 | 154.00 | 179.00 | 121.00 | 122.00 | 136.00 | 161.00 | 129.00 | 130.00 | 125.50 | 153.00 | 137.00 | 138.00 | 117.50 | 145.00 | 145.00 | 146.00 | 107.00 | 137.00 | 153.00 | 154.00 | |
| 300 | 297.40 | 302.60 | 97.00 | 98.00 | 177.00 | 197.00 | 103.00 | 104.00 | 168.50 | 191.00 | 109.00 | 110.00 | 162.50 | 185.00 | 115.00 | 116.00 | 164.00 | 189.00 | 121.00 | 122.00 | 146.00 | 171.00 | 129.00 | 130.00 | 135.50 | 163.00 | 137.00 | 138.00 | 127.50 | 155.00 | 145.00 | 146.00 | 117.00 | 147.00 | 153.00 | 154.00 | |
| 310 | 307.40 | 312.60 | 97.00 | 98.00 | 187.00 | 207.00 | 103.00 | 104.00 | 178.50 | 201.00 | 109.00 | 110.00 | 172.50 | 195.00 | 115.00 | 116.00 | 174.00 | 199.00 | 121.00 | 122.00 | 156.00 | 181.00 | 129.00 | 130.00 | 145.50 | 173.00 | 137.00 | 138.00 | 137.50 | 165.00 | 145.00 | 146.00 | 127.00 | 157.00 | 153.00 | 154.00 | |
| 320 | 317.15 | 322.85 | 97.00 | 98.00 | 197.00 | 217.00 | 103.00 | 104.00 | 188.50 | 211.00 | 109.00 | 110.00 | 182.50 | 205.00 | 115.00 | 116.00 | 184.00 | 209.00 | 121.00 | 122.00 | 166.00 | 191.00 | 129.00 | 130.00 | 155.50 | 183.00 | 137.00 | 138.00 | 147.50 | 175.00 | 145.00 | 146.00 | 137.00 | 167.00 | 153.00 | 154.00 | |
| 330 | 327.15 | 332.85 | 97.00 | 98.00 | 207.00 | 227.00 | 103.00 | 104.00 | 198.50 | 221.00 | 109.00 | 110.00 | 192.50 | 215.00 | 115.00 | 116.00 | 194.00 | 219.00 | 121.00 | 122.00 | 176.00 | 201.00 | 129.00 | 130.00 | 165.50 | 193.00 | 137.00 | 138.00 | 157.50 | 185.00 | 145.00 | 146.00 | 147.00 | 177.00 | 153.00 | 154.00 | |
| 340 | 337.15 | 342.85 | 97.00 | 98.00 | 217.00 | 237.00 | 103.00 | 104.00 | 208.50 | 231.00 | 109.00 | 110.00 | 202.50 | 225.00 | 115.00 | 116.00 | 204.00 | 229.00 | 121.00 | 122.00 | 186.00 | 211.00 | 129.00 | 130.00 | 175.50 | 203.00 | 137.00 | 138.00 | 167.50 | 195.00 | 145.00 | 146.00 | 157.00 | 187.00 | 153.00 | 154.00 | |
| 350 | 347.15 | 352.85 | 97.00 | 98.00 | 227.00 | 247.00 | 103.00 | 104.00 | 218.50 | 241.00 | 109.00 | 110.00 | 212.50 | 235.00 | 115.00 | 116.00 | 214.00 | 239.00 | 121.00 | 122.00 | 196.00 | 221.00 | 129.00 | 130.00 | 185.50 | 213.00 | 137.00 | 138.00 | 177.50 | 205.00 | 145.00 | 146.00 | 167.00 | 197.00 | 153.00 | 154.00 | |
| 360 | 357.15 | 362.85 | 97.00 | 98.00 | 237.00 | 257.00 | 103.00 | 104.00 | 228.50 | 251.00 | 109.00 | 110.00 | 222.50 | 245.00 | 115.00 | 116.00 | 224.00 | 249.00 | 121.00 | 122.00 | 206.00 | 231.00 | 129.00 | 130.00 | 195.50 | 223.00 | 137.00 | 138.00 | 187.50 | 215.00 | 145.00 | 146.00 | 177.00 | 207.00 | 153.00 | 154.00 | |
| 370 | 367.15 | 372.85 | 97.00 | 98.00 | 247.00 | 267.00 | 103.00 | 104.00 | 238.50 | 261.00 | 109.00 | 110.00 | 232.50 | 255.00 | 115.00 | 116.00 | 234.00 | 259.00 | 121.00 | 122.00 | 216.00 | 241.00 | 129.00 | 130.00 | 205.50 | 233.00 | 137.00 | 138.00 | 197.50 | 225.00 | 145.00 | 146.00 | 187.00 | 217.00 | 153.00 | 154.00 | |
| 380 | 377.15 | 382.85 | 97.00 | 98.00 | 257.00 | 277.00 | 103.00 | 104.00 | 248.50 | 271.00 | 109.00 | 110.00 | 242.50 | 265.00 | 115.00 | 116.00 | 244.00 | 269.00 | 121.00 | 122.00 | 226.00 | 251.00 | 129.00 | 130.00 | 215.50 | 243.00 | 137.00 | 138.00 | 207.50 | 235.00 | 145.00 | 146.00 | 197.00 | 227.00 | 153.00 | 154.00 | |
| 390 | 387.15 | 392.85 | 97.00 | 98.00 | 267.00 | 287.00 | 103.00 | 104.00 | 258.50 | 281.00 | 109.00 | 110.00 | 252.50 | 275.00 | 115.00 | 116.00 | 254.00 | 279.00 | 121.00 | 122.00 | 236.00 | 261.00 | 129.00 | 130.00 | 225.50 | 253.00 | 137.00 | 138.00 | 217.50 | 245.00 | 145.00 | 146.00 | 207.00 | 237.00 | 153.00 | 154.00 | |
| 400 | 397.15 | 402.85 | 97.00 | 98.00 | 277.00 | 297.00 | 103.00 | 104.00 | 268.50 | 291.00 | 109.00 | 110.00 | 262.50 | 285.00 | 115.00 | 116.00 | 264.00 | 289.00 | 121.00 | 122.00 | 246.00 | 271.00 | 129.00 | 130.00 | 235.50 | 263.00 | 137.00 | 138.00 | 227.50 | 255.00 | 145.00 | 146.00 | 217.00 | 247.00 | 153.00 | 154.00 | |
| 410 | 407.15 | 412.85 | 97.00 | 98.00 | 287.00 | 307.00 | 103.00 | 104.00 | 278.50 | 301.00 | 109.00 | 110.00 | 272.50 | 295.00 | 115.00 | 116.00 | 274.00 | 299.00 | 121.00 | 122.00 | 256.00 | 281.00 | 129.00 | 130.00 | 245.50 | 273.00 | 137.00 | 138.00 | 237.50 | 265.00 | 145.00 | 146.00 | 227.00 | 257.00 | 153.00 | 154.00 | |
| 420 | 416.85 | 423.15 | 97.00 | 98.00 | 297.00 | 317.00 | 103.00 | 104.00 | 288.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |