

中荷重 TM MIDDLE RANGE LOADS

COIL SPRING

| 内径 (mm) | ばね定数 | | 自由長×25.6% 100万回 | | 自由長×28.8% 50万回 | | 自由長×32% 30万回 | | Catalog No. | 外径 D (mm) | 自由長 L (mm) |
|------------|--------------|-------------|--------------------|-------------|-------------------|-------------|-----------------|----|-------------|-----------------|------------------|
| | N/mm(kgf/mm) | たわみ (mm) | 荷重 N(kgf) | たわみ (mm) | 荷重 N(kgf) | たわみ (mm) | 荷重 N(kgf) | | | | |
| | 42.57 | {4.34} | 2.6 | 2.9 | 3.2 | | | | | | 10 |
| | 28.38 | {2.89} | 3.8 | 4.3 | 4.8 | | | | | | 15 |
| | 21.28 | {2.17} | 5.1 | 5.8 | 6.4 | | | | | | 20 |
| | 17.03 | {1.74} | 6.4 | 7.2 | 8.0 | | | | | | 25 |
| | 14.19 | {1.45} | 7.7 | 8.6 | 9.6 | | | | | | 30 |
| | 12.16 | {1.24} | 9.0 | 10.1 | 11.2 | | | | | | 35 |
| | 10.64 | {1.09} | 10.2 | 11.5 | 12.8 | | | | | | 40 |
| 4 | 9.46 | {0.96} | 11.5 | 13.0 | 14.4 | 137 | | | 8 | | 45 |
| | 8.51 | {0.87} | 12.8 | 14.4 | 16.0 | {14.0} | | | | | 50 |
| | 7.74 | {0.79} | 14.1 | 15.8 | 17.6 | | | | | | 55 |
| | 7.09 | {0.72} | 15.4 | 17.3 | 19.2 | | | | | | 60 |
| | 6.55 | {0.67} | 16.6 | 18.7 | 20.8 | | | | | | 65 |
| | 6.08 | {0.62} | 17.9 | 20.2 | 22.4 | | | | | | 70 |
| | 5.68 | {0.58} | 19.2 | 21.6 | 24.0 | | | | | | 75 |
| | 5.32 | {0.54} | 20.5 | 23.0 | 25.6 | | | | | | 80 |
| | 30.64 | {3.12} | 5.1 | 5.8 | 6.4 | | | | | | 20 |
| | 24.51 | {2.50} | 6.4 | 7.2 | 8.0 | | | | | | 25 |
| | 20.43 | {2.08} | 7.7 | 8.6 | 9.6 | | | | | | 30 |
| | 17.51 | {1.79} | 9.0 | 10.1 | 11.2 | | | | | | 35 |
| | 15.32 | {1.56} | 10.2 | 11.5 | 12.8 | | | | | | 40 |
| | 13.62 | {1.39} | 11.5 | 13.0 | 14.4 | 196 | | | | | 45 |
| 5 | 12.26 | {1.25} | 12.8 | 14.4 | 16.0 | {20.0} | | TM | 10 | | 50 |
| | 11.14 | {1.14} | 14.1 | 15.8 | 17.6 | | | | | | 55 |
| | 10.21 | {1.04} | 15.4 | 17.3 | 19.2 | | | | | | 60 |
| | 9.43 | {0.96} | 16.6 | 18.7 | 20.8 | | | | | | 65 |
| | 8.75 | {0.89} | 17.9 | 20.2 | 22.4 | | | | | | 70 |
| | 8.17 | {0.83} | 19.2 | 21.6 | 24.0 | | | | | | 75 |
| | 7.66 | {0.78} | 20.5 | 23.0 | 25.6 | | | | | | 80 |
| | 6.81 | {0.69} | 23.0 | 25.9 | 28.8 | | | | | | 90 |
| | 44.27 | {4.51} | 5.1 | 5.8 | 6.4 | | | | | | 20 |
| | 35.42 | {3.61} | 6.4 | 7.2 | 8.0 | | | | | | 25 |
| | 29.51 | {3.01} | 7.7 | 8.6 | 9.6 | | | | | | 30 |
| | 25.30 | {2.58} | 9.0 | 10.1 | 11.2 | | | | | | 35 |
| | 22.14 | {2.26} | 10.2 | 11.5 | 12.8 | | | | | | 40 |
| | 19.68 | {2.01} | 11.5 | 13.0 | 14.4 | 284 | | | | | 45 |
| 6 | 17.71 | {1.81} | 12.8 | 14.4 | 16.0 | {29.0} | | | 12 | | 50 |
| | 16.10 | {1.64} | 14.1 | 15.8 | 17.6 | | | | | | 55 |
| | 14.76 | {1.50} | 15.4 | 17.3 | 19.2 | | | | | | 60 |
| | 13.62 | {1.39} | 16.6 | 18.7 | 20.8 | | | | | | 65 |
| | 12.65 | {1.29} | 17.9 | 20.2 | 22.4 | | | | | | 70 |
| | 11.81 | {1.20} | 19.2 | 21.6 | 24.0 | | | | | | 75 |
| | 11.07 | {1.13} | 20.5 | 23.0 | 25.6 | | | | | | 80 |
| | 9.84 | {1.00} | 23.0 | 25.9 | 28.8 | | | | | | 90 |

⚠ 自由長×32%を超えるたわみでは使用しないでください。 荷重(N) = ばね定数(N/mm) × たわみ(mm)

Order Catalog No. D - L

| 内径 (mm) | ばね定数 | | 自由長×25.6% 100万回 | | 自由長×28.8% 50万回 | | 自由長×32% 30万回 | | Catalog No. | 外径 D (mm) | 自由長 L (mm) |
|------------|--------------|-------------|--------------------|-------------|-------------------|-------------|-----------------|--|-------------|-----------------|------------------|
| | N/mm(kgf/mm) | たわみ (mm) | 荷重 N(kgf) | たわみ (mm) | 荷重 N(kgf) | たわみ (mm) | 荷重 N(kgf) | | | | |
| | 47.64 | {4.86} | 6.4 | 7.2 | 8.0 | | | | | | 25 |
| | 39.70 | {4.05} | 7.7 | 8.6 | 9.6 | | | | | | 30 |
| | 34.03 | {3.47} | 9.0 | 10.1 | 11.2 | | | | | | 35 |
| | 29.77 | {3.04} | 10.2 | 11.5 | 12.8 | | | | | | 40 |
| | 26.47 | {2.70} | 11.5 | 13.0 | 14.4 | | | | | | 45 |
| | 23.82 | {2.43} | 12.8 | 14.4 | 16.0 | | | | | | 50 |
| 7 | 21.65 | {2.21} | 14.1 | 15.8 | 17.6 | 383 | | | 14 | | 55 |
| | 19.85 | {2.02} | 15.4 | 17.3 | 19.2 | {39.1} | | | | | 60 |
| | 18.32 | {1.87} | 16.6 | 18.7 | 20.8 | | | | | | 65 |
| | 17.01 | {1.73} | 17.9 | 20.2 | 22.4 | | | | | | 70 |
| | 15.88 | {1.62} | 19.2 | 21.6 | 24.0 | | | | | | 75 |
| | 14.89 | {1.52} | 20.5 | 23.0 | 25.6 | | | | | | 80 |
| | 13.23 | {1.35} | 23.0 | 25.9 | 28.8 | | | | | | 90 |
| | 11.91 | {1.21} | 25.6 | 28.8 | 32.0 | | | | | | 100 |
| | 62.64 | {6.39} | 6.4 | 7.2 | 8.0 | | | | | | 25 |
| | 52.20 | {5.32} | 7.7 | 8.6 | 9.6 | | | | | | 30 |
| | 44.74 | {4.56} | 9.0 | 10.1 | 11.2 | | | | | | 35 |
| | 39.15 | {3.99} | 10.2 | 11.5 | 12.8 | | | | | | 40 |
| | 34.80 | {3.55} | 11.5 | 13.0 | 14.4 | | | | | | 45 |
| | 31.32 | {3.19} | 12.8 | 14.4 | 16.0 | | | | | | 50 |
| | 28.47 | {2.90} | 14.1 | 15.8 | 17.6 | | | | | | 55 |
| 8 | 26.10 | {2.66} | 15.4 | 17.3 | 19.2 | 500 | | | TM | 16 | 60 |
| | 24.09 | {2.46} | 16.6 | 18.7 | 20.8 | {51.0} | | | | | 65 |
| | 22.37 | {2.28} | 17.9 | 20.2 | 22.4 | | | | | | 70 |
| | 20.88 | {2.13} | 19.2 | 21.6 | 24.0 | | | | | | 75 |
| | 19.57 | {2.00} | 20.5 | 23.0 | 25.6 | | | | | | 80 |
| | 17.40 | {1.77} | 23.0 | 25.9 | 28.8 | | | | | | 90 |
| | 15.66 | {1.60} | 25.6 | 28.8 | 32.0 | | | | | | 100 |
| | 12.53 | {1.28} | 32.0 | 36.0 | 40.0 | | | | | | 125 |
| | 79.03 | {8.06} | 6.4 | 7.2 | 8.0 | | | | | | 25 |
| | 65.86 | {6.72} | 7.7 | 8.6 | 9.6 | | | | | | 30 |
| | 56.45 | {5.76} | 9.0 | 10.1 | 11.2 | | | | | | 35 |
| | 49.39 | {5.04} | 10.2 | 11.5 | 12.8 | | | | | | 40 |
| | 43.90 | {4.48} | 11.5 | 13.0 | 14.4 | | | | | | 45 |
| | 39.51 | {4.03} | 12.8 | 14.4 | 16.0 | | | | | | 50 |
| | 35.92 | {3.66} | 14.1 | 15.8 | 17.6 | | | | | | 55 |
| 9 | 32.93 | {3.36} | 15.4 | 17.3 | 19.2 | 637 | | | 18 | | 60 |
| | 30.40 | {3.10} | 16.6 | 18.7 | 20.8 | {65.0} | | | | | 65 |
| | 28.22 | {2.88} | 17.9 | 20.2 | 22.4 | | | | | | 70 |
| | 26.34 | {2.69} | 19.2 | 21.6 | 24.0 | | | | | | 75 |
| | 24.70 | {2.52} | 20.5 | 23.0 | 25.6 | | | | | | 80 |
| | 21.95 | {2.24} | 23.0 | 25.9 | 28.8 | | | | | | 90 |
| | 19.76 | {2.01} | 25.6 | 28.8 | 32.0 | | | | | | 100 |
| | 15.81 | {1.61} | 32.0 | 36.0 | 40.0 | | | | | | 125 |

⚠ 自由長×32%を超えるたわみでは使用しないでください。 荷重(N) = ばね定数(N/mm) × たわみ(mm)

圧縮コイルばね

中荷重 TM MIDDLE RANGE LOADS

COIL SPRING

| 内径 (mm) | ばね定数 N/mm(kgf/mm) | | 自由長×25.6% 100万回 | | 自由長×28.8% 50万回 | | 自由長×32% 30万回 | | Catalog No. | 外径 D (mm) | 自由長 L (mm) |
|------------|----------------------|---------|--------------------|--------------|-------------------|--------------|-----------------|--------------|-------------|-----------------|------------------|
| | | | たわみ (mm) | 荷重 N(kgf) | たわみ (mm) | 荷重 N(kgf) | たわみ (mm) | 荷重 N(kgf) | | | |
| | 98.06 | {10.00} | 6.4 | | 7.2 | | 8.0 | | | | 25 |
| | 81.71 | {8.33} | 7.7 | | 8.6 | | 9.6 | | | | 30 |
| | 70.04 | {7.14} | 9.0 | | 10.1 | | 11.2 | | | | 35 |
| | 61.28 | {6.25} | 10.2 | | 11.5 | | 12.8 | | | | 40 |
| | 54.48 | {5.55} | 11.5 | | 13.0 | | 14.4 | | | | 45 |
| | 49.03 | {5.00} | 12.8 | | 14.4 | | 16.0 | | | | 50 |
| | 44.57 | {4.54} | 14.1 | | 15.8 | | 17.6 | | | | 55 |
| 10 | 40.86 | {4.17} | 15.4 | 628 | 17.3 | 706 | 19.2 | 785 | | 20 | 60 |
| | 37.71 | {3.85} | 16.6 | {64.0} | 18.7 | {72.0} | 20.8 | {80.0} | | | 65 |
| | 35.02 | {3.57} | 17.9 | | 20.2 | | 22.4 | | | | 70 |
| | 32.69 | {3.33} | 19.2 | | 21.6 | | 24.0 | | | | 75 |
| | 30.64 | {3.12} | 20.5 | | 23.0 | | 25.6 | | | | 80 |
| | 27.24 | {2.78} | 23.0 | | 25.9 | | 28.8 | | | | 90 |
| | 24.51 | {2.50} | 25.6 | | 28.8 | | 32.0 | | | | 100 |
| | 19.61 | {2.00} | 32.0 | | 36.0 | | 40.0 | | | | 125 |
| | 16.34 | {1.67} | 38.4 | | 43.2 | | 48.0 | | | | 150 |
| | 118.47 | {12.08} | 6.4 | | 7.2 | | 8.0 | | TM | | 25 |
| | 98.73 | {10.07} | 7.7 | | 8.6 | | 9.6 | | | | 30 |
| | 84.62 | {8.63} | 9.0 | | 10.1 | | 11.2 | | | | 35 |
| | 74.05 | {7.55} | 10.2 | | 11.5 | | 12.8 | | | | 40 |
| | 65.82 | {6.71} | 11.5 | | 13.0 | | 14.4 | | | | 45 |
| | 59.24 | {6.04} | 12.8 | | 14.4 | | 16.0 | | | | 50 |
| | 53.85 | {5.49} | 14.1 | | 15.8 | | 17.6 | | | | 55 |
| 11 | 49.36 | {5.03} | 15.4 | 765 | 17.3 | 853 | 19.2 | 951 | | 22 | 60 |
| | 45.57 | {4.65} | 16.6 | {78.0} | 18.7 | {87.0} | 20.8 | {97.0} | | | 65 |
| | 42.31 | {4.31} | 17.9 | | 20.2 | | 22.4 | | | | 70 |
| | 39.49 | {4.03} | 19.2 | | 21.6 | | 24.0 | | | | 75 |
| | 37.02 | {3.78} | 20.5 | | 23.0 | | 25.6 | | | | 80 |
| | 32.91 | {3.36} | 23.0 | | 25.9 | | 28.8 | | | | 90 |
| | 29.62 | {3.02} | 25.6 | | 28.8 | | 32.0 | | | | 100 |
| | 23.69 | {2.42} | 32.0 | | 36.0 | | 40.0 | | | | 125 |
| | 19.75 | {2.01} | 38.4 | | 43.2 | | 48.0 | | | | 150 |

⚠ 自由長×32%を超えるたわみでは使用しないでください。 荷重(N) = ばね定数(N/mm) × たわみ(mm)

Order -
TM 20 - 25

| 内径 (mm) | ばね定数 N/mm(kgf/mm) | | 自由長×25.6% 100万回 | | 自由長×28.8% 50万回 | | 自由長×32% 30万回 | | Catalog No. | 外径 D (mm) | 自由長 L (mm) |
|------------|----------------------|---------|--------------------|--------------|-------------------|--------------|-----------------|--------------|-------------|-----------------|------------------|
| | | | たわみ (mm) | 荷重 N(kgf) | たわみ (mm) | 荷重 N(kgf) | たわみ (mm) | 荷重 N(kgf) | | | |
| | 152.50 | {15.55} | 6.4 | | 7.2 | | 8.0 | | | | 25 |
| | 127.08 | {12.96} | 7.7 | | 8.6 | | 9.6 | | | | 30 |
| | 108.93 | {11.11} | 9.0 | | 10.1 | | 11.2 | | | | 35 |
| | 95.31 | {9.72} | 10.2 | | 11.5 | | 12.8 | | | | 40 |
| | 84.72 | {8.64} | 11.5 | | 13.0 | | 14.4 | | | | 45 |
| | 76.25 | {7.78} | 12.8 | | 14.4 | | 16.0 | | | | 50 |
| | 69.32 | {7.07} | 14.1 | | 15.8 | | 17.6 | | | | 55 |
| | 63.54 | {6.48} | 15.4 | | 17.3 | | 19.2 | | | | 60 |
| | 58.65 | {5.98} | 16.6 | | 18.7 | | 20.8 | | | | 65 |
| 12.5 | 54.46 | {5.55} | 17.9 | 981 | 20.2 | 1,098 | 22.4 | 1,226 | | 25 | 70 |
| | 50.83 | {5.18} | 19.2 | {100.0} | 21.6 | {112.0} | 24.0 | {125.0} | | | 75 |
| | 47.66 | {4.86} | 20.5 | | 23.0 | | 25.6 | | | | 80 |
| | 42.36 | {4.32} | 23.0 | | 25.9 | | 28.8 | | | | 90 |
| | 38.13 | {3.89} | 25.6 | | 28.8 | | 32.0 | | | | 100 |
| | 30.50 | {3.11} | 32.0 | | 36.0 | | 40.0 | | | | 125 |
| | 25.42 | {2.59} | 38.4 | | 43.2 | | 48.0 | | | | 150 |
| | 21.79 | {2.22} | 44.8 | | 50.4 | | 56.0 | | | | 175 |
| | 19.06 | {1.94} | 51.2 | | 57.6 | | 64.0 | | | | 200 |
| | 178.47 | {18.20} | 6.4 | | 7.2 | | 8.0 | | TM | | 25 |
| | 148.73 | {15.17} | 7.7 | | 8.6 | | 9.6 | | | | 30 |
| | 127.48 | {13.00} | 9.0 | | 10.1 | | 11.2 | | | | 35 |
| | 111.55 | {11.37} | 10.2 | | 11.5 | | 12.8 | | | | 40 |
| | 99.15 | {10.11} | 11.5 | | 13.0 | | 14.4 | | | | 45 |
| | 89.24 | {9.10} | 12.8 | | 14.4 | | 16.0 | | | | 50 |
| | 81.12 | {8.27} | 14.1 | | 15.8 | | 17.6 | | | | 55 |
| | 74.36 | {7.58} | 15.4 | | 17.3 | | 19.2 | | | | 60 |
| | 68.64 | {7.00} | 16.6 | | 18.7 | | 20.8 | | | | 65 |
| 13.5 | 63.74 | {6.50} | 17.9 | 1,147 | 20.2 | 1,285 | 22.4 | 1,432 | | 27 | 70 |
| | 59.49 | {6.07} | 19.2 | {117.0} | 21.6 | {131.0} | 24.0 | {146.0} | | | 75 |
| | 55.77 | {5.69} | 20.5 | | 23.0 | | 25.6 | | | | 80 |
| | 49.58 | {5.06} | 23.0 | | 25.9 | | 28.8 | | | | 90 |
| | 44.62 | {4.55} | 25.6 | | 28.8 | | 32.0 | | | | 100 |
| | 35.69 | {3.64} | 32.0 | | 36.0 | | 40.0 | | | | 125 |
| | 29.75 | {3.03} | 38.4 | | 43.2 | | 48.0 | | | | 150 |
| | 25.50 | {2.60} | 44.8 | | 50.4 | | 56.0 | | | | 175 |
| | 22.31 | {2.27} | 51.2 | | 57.6 | | 64.0 | | | | 200 |

⚠ 自由長×32%を超えるたわみでは使用しないでください。 荷重(N) = ばね定数(N/mm) × たわみ(mm)

圧縮コイルばね

中荷重 TM MIDDLE RANGE LOADS

COIL SPRING

| 内径 (mm) | ばね定数 N/mm(kgf/mm) | | 自由長×25.6% 100万回 | | 自由長×28.8% 50万回 | | 自由長×32% 30万回 | | Catalog No. | 外径 D (mm) | 自由長 L (mm) |
|------------|----------------------|---------|--------------------|------------------|-------------------|------------------|-----------------|------------------|-------------|-----------------|------------------|
| | | | たわみ (mm) | 荷重 N (kgf) | たわみ (mm) | 荷重 N (kgf) | たわみ (mm) | 荷重 N (kgf) | | | |
| | 219.31 | {22.36} | 6.4 | | 7.2 | | 8.0 | | | | 25 |
| | 182.75 | {18.64} | 7.7 | | 8.6 | | 9.6 | | | | 30 |
| | 156.65 | {15.97} | 9.0 | | 10.1 | | 11.2 | | | | 35 |
| | 137.07 | {13.98} | 10.2 | | 11.5 | | 12.8 | | | | 40 |
| | 121.84 | {12.42} | 11.5 | | 13.0 | | 14.4 | | | | 45 |
| | 109.65 | {11.18} | 12.8 | | 14.4 | | 16.0 | | | | 50 |
| | 99.68 | {10.16} | 14.1 | | 15.8 | | 17.6 | | | | 55 |
| | 91.38 | {9.32} | 15.4 | | 17.3 | | 19.2 | | | | 60 |
| 15 | 84.35 | {8.60} | 16.6 | 1,412 {144.0} | 18.7 | 1,579 {161.0} | 20.8 | 1,765 {180.0} | | 30 | 65 |
| | 78.32 | {7.99} | 17.9 | | 20.2 | | 22.4 | | | | 70 |
| | 73.10 | {7.45} | 19.2 | | 21.6 | | 24.0 | | | | 75 |
| | 68.53 | {6.99} | 20.5 | | 23.0 | | 25.6 | | | | 80 |
| | 60.92 | {6.21} | 23.0 | | 25.9 | | 28.8 | | | | 90 |
| | 54.83 | {5.59} | 25.6 | | 28.8 | | 32.0 | | | | 100 |
| | 43.86 | {4.47} | 32.0 | | 36.0 | | 40.0 | | | | 125 |
| | 36.55 | {3.73} | 38.4 | | 43.2 | | 48.0 | | | | 150 |
| | 31.33 | {3.19} | 44.8 | | 50.4 | | 56.0 | | TM | | 175 |
| | 27.41 | {2.80} | 51.2 | | 57.6 | | 64.0 | | | | 200 |
| | 187.50 | {19.12} | 10.2 | | 11.5 | | 12.8 | | | | 40 |
| | 166.67 | {17.00} | 11.5 | | 13.0 | | 14.4 | | | | 45 |
| | 150.00 | {15.30} | 12.8 | | 14.4 | | 16.0 | | | | 50 |
| | 136.36 | {13.91} | 14.1 | | 15.8 | | 17.6 | | | | 55 |
| | 125.00 | {12.75} | 15.4 | | 17.3 | | 19.2 | | | | 60 |
| | 115.38 | {11.77} | 16.6 | | 18.7 | | 20.8 | | | | 65 |
| | 107.14 | {10.93} | 17.9 | | 20.2 | | 22.4 | | | | 70 |
| 17.5 | 100.00 | {10.20} | 19.2 | 1,912 {195.0} | 21.6 | 2,160 {220.3} | 24.0 | 2,400 {244.7} | | 35 | 75 |
| | 93.75 | {9.56} | 20.5 | | 23.0 | | 25.6 | | | | 80 |
| | 83.33 | {8.50} | 23.0 | | 25.9 | | 28.8 | | | | 90 |
| | 75.00 | {7.65} | 25.6 | | 28.8 | | 32.0 | | | | 100 |
| | 60.00 | {6.12} | 32.0 | | 36.0 | | 40.0 | | | | 125 |
| | 50.00 | {5.10} | 38.4 | | 43.2 | | 48.0 | | | | 150 |
| | 42.86 | {4.37} | 44.8 | | 50.4 | | 56.0 | | | | 175 |
| | 37.50 | {3.82} | 51.2 | | 57.6 | | 64.0 | | | | 200 |

⚠ 自由長×32%を超えるたわみでは使用しないでください。 荷重(N) = ばね定数(N/mm) × たわみ(mm)

Order -

| 内径 (mm) | ばね定数 N/mm(kgf/mm) | | 自由長×25.6% 100万回 | | 自由長×28.8% 50万回 | | 自由長×32% 30万回 | | Catalog No. | 外径 D (mm) | 自由長 L (mm) |
|------------|----------------------|---------|--------------------|------------------|-------------------|------------------|-----------------|------------------|-------------|-----------------|------------------|
| | | | たわみ (mm) | 荷重 N (kgf) | たわみ (mm) | 荷重 N (kgf) | たわみ (mm) | 荷重 N (kgf) | | | |
| | 244.79 | {24.96} | 10.2 | | 11.5 | | 12.8 | | | | 40 |
| | 217.59 | {22.19} | 11.5 | | 13.0 | | 14.4 | | | | 45 |
| | 195.83 | {19.97} | 12.8 | | 14.4 | | 16.0 | | | | 50 |
| | 178.03 | {18.15} | 14.1 | | 15.8 | | 17.6 | | | | 55 |
| | 163.19 | {16.64} | 15.4 | | 17.3 | | 19.2 | | | | 60 |
| | 150.64 | {15.36} | 16.6 | | 18.7 | | 20.8 | | | | 65 |
| | 139.88 | {14.26} | 17.9 | | 20.2 | | 22.4 | | | | 70 |
| | 130.56 | {13.31} | 19.2 | | 21.6 | | 24.0 | | | | 75 |
| | 122.40 | {12.48} | 20.5 | | 23.0 | | 25.6 | | | | 80 |
| 20 | 108.80 | {11.09} | 23.0 | 2,510 {256.0} | 25.9 | 2,820 {287.6} | 28.8 | 3,140 {320.2} | | 40 | 90 |
| | 97.92 | {9.98} | 25.6 | | 28.8 | | 32.0 | | | | 100 |
| | 78.33 | {7.99} | 32.0 | | 36.0 | | 40.0 | | | | 125 |
| | 65.28 | {6.66} | 38.4 | | 43.2 | | 48.0 | | | | 150 |
| | 55.95 | {5.71} | 44.8 | | 50.4 | | 56.0 | | | | 175 |
| | 48.96 | {4.99} | 51.2 | | 57.6 | | 64.0 | | | | 200 |
| | 43.52 | {4.44} | 57.6 | | 64.8 | | 72.0 | | | | 225 |
| | 39.17 | {3.99} | 64.0 | | 72.0 | | 80.0 | | | | 250 |
| | 35.61 | {3.63} | 70.4 | | 79.2 | | 88.0 | | | | 275 |
| | 32.64 | {3.33} | 76.8 | | 86.4 | | 96.0 | | TM | | 300 |
| | 306.25 | {31.23} | 12.8 | | 14.4 | | 16.0 | | | | 50 |
| | 278.41 | {28.39} | 14.1 | | 15.8 | | 17.6 | | | | 55 |
| | 255.21 | {26.02} | 15.4 | | 17.3 | | 19.2 | | | | 60 |
| | 235.58 | {24.02} | 16.6 | | 18.7 | | 20.8 | | | | 65 |
| | 218.75 | {22.31} | 17.9 | | 20.2 | | 22.4 | | | | 70 |
| | 204.17 | {20.82} | 19.2 | | 21.6 | | 24.0 | | | | 75 |
| | 191.41 | {19.52} | 20.5 | | 23.0 | | 25.6 | | | | 80 |
| | 170.14 | {17.35} | 23.0 | | 25.9 | | 28.8 | | | | 90 |
| 25 | 153.13 | {15.61} | 25.6 | 3,920 {399.7} | 28.8 | 4,410 {449.7} | 32.0 | 4,900 {499.7} | | 50 | 100 |
| | 122.50 | {12.49} | 32.0 | | 36.0 | | 40.0 | | | | 125 |
| | 102.08 | {10.41} | 38.4 | | 43.2 | | 48.0 | | | | 150 |
| | 87.50 | {8.92} | 44.8 | | 50.4 | | 56.0 | | | | 175 |
| | 76.56 | {7.81} | 51.2 | | 57.6 | | 64.0 | | | | 200 |
| | 68.06 | {6.94} | 57.6 | | 64.8 | | 72.0 | | | | 225 |
| | 61.25 | {6.25} | 64.0 | | 72.0 | | 80.0 | | | | 250 |
| | 55.68 | {5.68} | 70.4 | | 79.2 | | 88.0 | | | | 275 |
| | 51.04 | {5.20} | 76.8 | | 86.4 | | 96.0 | | | | 300 |
| | 43.75 | {4.46} | 89.6 | | 100.8 | | 112.0 | | | | 350 |

⚠ 自由長×32%を超えるたわみでは使用しないでください。 荷重(N) = ばね定数(N/mm) × たわみ(mm)

圧縮コイルスプリング

中荷重 TM MIDDLE RANGE LOADS

COIL SPRING

| 内径 (mm) | ばね定数 | | 自由長×25.6% 100万回 | | 自由長×28.8% 50万回 | | 自由長×32% 30万回 | | Catalog No. | 外径 D (mm) | 自由長 L (mm) |
|------------|--------------|---------|--------------------|--------------|-------------------|--------------|-----------------|--------------|-------------|-----------------|------------------|
| | N/mm(kgf/mm) | | たわみ (mm) | 荷重 N(kgf) | たわみ (mm) | 荷重 N(kgf) | たわみ (mm) | 荷重 N(kgf) | | | |
| | 367.48 | {37.47} | 15.4 | | 17.3 | | 19.2 | | | | 60 |
| | 314.98 | {32.12} | 17.9 | | 20.2 | | 22.4 | | | | 70 |
| | 275.61 | {28.10} | 20.5 | | 23.0 | | 25.6 | | | | 80 |
| | 244.98 | {24.98} | 23.0 | | 25.9 | | 28.8 | | | | 90 |
| | 220.49 | {22.48} | 25.6 | | 28.8 | | 32.0 | | | | 100 |
| 30 | 176.39 | {17.99} | 32.0 | 5,640 | 36.0 | 6,350 | 40.0 | 7,060 | | 60 | 125 |
| | 146.99 | {14.99} | 38.4 | {575.1} | 43.2 | {647.5} | 48.0 | {719.9} | | | 150 |
| | 125.99 | {12.85} | 44.8 | | 50.4 | | 56.0 | | | | 175 |
| | 110.24 | {11.24} | 51.2 | | 57.6 | | 64.0 | | | | 200 |
| | 97.99 | {9.99} | 57.6 | | 64.8 | | 72.0 | | | | 225 |
| | 88.19 | {8.99} | 64.0 | | 72.0 | | 80.0 | | | | 250 |
| | 80.18 | {8.18} | 70.4 | | 79.2 | | 88.0 | | | | 275 |
| | 73.50 | {7.49} | 76.8 | | 86.4 | | 96.0 | | | | 300 |
| | 63.00 | {6.42} | 89.6 | | 100.8 | | 112.0 | | TM | | 350 |
| | 379.46 | {38.69} | 17.9 | | 20.2 | | 22.4 | | | | |
| | 332.03 | {33.86} | 20.5 | | 23.0 | | 25.6 | | | 80 | |
| | 295.14 | {30.10} | 23.0 | | 25.9 | | 28.8 | | | 90 | |
| | 265.63 | {27.09} | 25.6 | | 28.8 | | 32.0 | | | 100 | |
| | 212.50 | {21.67} | 32.0 | | 36.0 | | 40.0 | | | 125 | |
| 38.5 | 177.08 | {18.06} | 38.4 | 6,800 | 43.2 | 7,650 | 48.0 | 8,500 | | 70 | 150 |
| | 151.79 | {15.48} | 44.8 | {693.4} | 50.4 | {780.1} | 56.0 | {866.8} | | | 175 |
| | 132.81 | {13.54} | 51.2 | | 57.6 | | 64.0 | | | | 200 |
| | 118.06 | {12.04} | 57.6 | | 64.8 | | 72.0 | | | | 225 |
| | 106.25 | {10.83} | 64.0 | | 72.0 | | 80.0 | | | | 250 |
| | 96.59 | {9.85} | 70.4 | | 79.2 | | 88.0 | | | | 275 |
| | 88.54 | {9.03} | 76.8 | | 86.4 | | 96.0 | | | | 300 |
| | 75.89 | {7.74} | 89.6 | | 100.8 | | 112.0 | | | | 350 |

⚠ 自由長×32%を超えるたわみでは使用しないでください。 荷重(N) = ばね定数(N/mm) × たわみ(mm)



Order

Catalog No.

D

-

L

TM

60

-

60