## 

## Precision Compression Springs

Manufactured to tighter load and dimensional tolerances.
Note: Additional sizes are available; on Grainger.com, search for "precision compression springs."
Type 302 Stainless Steel—Springs offer better corrosion resistance and perform well at up to $500^{\circ}$. Meet ASTM A313 standards.



## Torsion Springs

With straight legs and ends.
Note: Additional sizes are available; on Grainger.com, search for "torsion springs."

| 302 STAINLESS STEEL |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | rque |  | RIGHT- | LEFT- |
|  |  | Max. | Spring |  | Leg |  | HAND | HAND |
|  |  | Rod | Length | No. |  |  | WOUND | WOUND |
| Outside | Wire Leg | Outside | @ | of | (in.- $P$ | Pkg. | Item | Item |
| Dia. | Dia. Length | Dia. | Torque C | Coils | lb.)* | Qty. | No. | No. |
| $90^{\circ}$ Angle of Deflection |  |  |  |  |  |  |  |  |
| 0.776 in 0. | 0.095 in 3 in | 0.453 in | 1.5 in | 3.25 | 16.0 | , | 3HPR6 | 3HPP3 |
| 0.848 in 0 | 0.105 in 3.5 in | 0.5 in | 1.75 in 3 | 3.25 | 20.97 | 1 | 3HPR7 | 3HPP4 |
| 0.989 in 0. | 0.125 in 4 in | 0.591 in | 2 in | 4.25 | 32.0 | 1 | 3HPR9 | 3HPP6 |
| 1.102 in 0 | 0.135 in 4 in | 0.666 in | 2 in 4 | 4.25 | 40.0 | 1 | 3HPT2 | 3HPP8 |
| $180^{\circ}$ Angle of Deflection |  |  |  |  |  |  |  |  |
| 0.982 in 0 | 0.105 in 3.5 in | 0.609 in | 1.75 in | 7.0 | 21.0 | 1 | 3HPT1 | 3HPP7 |
| 1.082 in 0 | 0.125 in 4 in | 0.666 in | 2 in | 9.0 | 32.0 | 1 | 3HPT3 | 3HPP9 |
| 1.189 in 0 | 0.135 in 4 in | 0.735 in | 2 in | 9.0 | 40.0 | 1 | 3HPT4 | 3HPR1 |
| 1.356 in 0 | 0.125 in 4 in | 0.885 in | 2 in | 7.0 | 32.0 | 1 | 3HPT5 | 3HPR2 |
| $360{ }^{\circ}$ Angle of Deflection |  |  |  |  |  |  |  |  |
| 0.798 in 0 | 0.063 in 2 in | 0.516 in | 1 in | 10.5 | 5.15 | 1 | 3HPR8 | 3HPP5 |
| 1.755 in 0.135 in 4 in |  | 1.188 in | 2 in | 12.5 | 40.0 | 1 | 3HPR5 | 3HPP2 |
|  |  |  |  |  |  |  | CARBON STEEL |  |
|  |  |  |  |  |  |  | MUSIC WIRE |  |
|  |  |  |  |  | @ 1/2 |  | RIGHT- | LEFT- |
|  |  |  | Spring |  | Leg |  | HAND | HAND |
|  |  | Max. Rod | d Length |  | Length |  | WOUND | WOUND |
| Outside | Wire Leg | Outside | @ |  | $f$ (In.- | Pkg. | Item | Item |
|  | Dia. Length | Dia. | Torque | Coils | (b.)* | Qty. | - No. | No. |
| $\mathbf{9 0}{ }^{\circ}$ Angle of Deflection |  |  |  |  |  |  |  |  |
| 0.16 in | 0.017 in 0.5 in | 0.093 in | 0.25 in | 3.25 | 0.125 | 6 | 3HPC3 | 3HPF8 |
| 0.235 in 0. | 0.025 in 0.75 in | 0.14 in | 0.375 in | in 3.25 | 0.402 | 6 | 3HPC4 | 3HPF9 |
| 0.281 in | 0.03 in 1 in | 0.172 in | 0.5 in | 3.25 | 0.67 | 6 | 3HPC5 | 3HPG1 |
| 0.288 in 0. | 0.032 in 1 in | 0.172 in | 0.5 in | 3.25 | 0.879 | 6 | 3HPC6 | 3HPG2 |
| 0.309 in | 0.04 in 1.25 in | 0.187 in | 0.625 in | in 4.25 | 1.473 | - 6 | 3HPC8 | 3HPG4 |
| 0.315 in 0. | 0.035 in 1.25 in | 0.187 in | 0.625 in | in 3.25 | 1.071 | 6 | 3HPC7 | 3HPG3 |
| 0.357 in 0.0 | 0.045 in 1.25 in | 0.203 in | 0.625 in | in 4.25 | 2.143 | 6 | 3HPC9 | 3HPG5 |
| 0.375 in 0.0 | 0.048 in 1.25 in | 0.218 in | 0.625 in | in 4.25 | 2.679 | 9 | 3HPD1 | 3HPG6 |
| 0.408 in 0 | 0.051 in 2 in | 0.234 in | 1.0 in | 4.25 | 3.107 | 6 | 3HPD2 |  |
| 0.484 in 0 | 0.054 in 2 in | 0.296 in | 1 in | 3.25 | 3.509 | 6 | 3HPD3 | 3HPG8 |
| 0.499 in 0. | 0.059 in 2 in | 0.296 in | 1 in | 4.25 | 4.5 | 6 | 3HPD4 | 3HPG9 |
| 0.56 in 0. | 0.063 in 2 in | 0.343 in | 1 in | 4.25 | 5.518 | 86 | 3HPD5 | 3HPH1 |
| 0.678 in 0. | 0.078 in 2 in | 0.406 in | 1 in | 4.25 | 10.446 | 66 | 3HPD6 | 3HPH2 |
| 0.776 in 0. | 0.095 in 3 in | 0.453 in | 1.5 in | 3.25 | 17.14 | 4 | 3HPL9 | 3HPK6 |
| 0.848 in 0. | 0.105 in 3.5 in | 0.5 in | 1.75 in | in 3.25 | 22.47 | 7 | 3HPN1 | 3HPK7 |
| 0.989 in 0. | 0.125 in 4 in | 0.591 in | 2in | 4.25 | 34.29 | 1 | 3HPN3 | 3HPK9 |
| 1.102 in 0 | 0.135 in 4 in | 0.666 in | 2 in | 4.25 | 42.86 | - 1 | 3HPN5 | 3HPL2 |
| $180^{\circ}$ Angle of Deflection |  |  |  |  |  |  |  |  |
| 0.133 in 0 | 0.014 in 0.5 in | 0.078 in | 0.25 in | ก 6.0 | 0.075 | 5 | 3HPD8 | 3HPH4 |
| 0.224 in 0. | 0.025 in 0.75 in | 0.14 in | 0.375 in | in 7.0 | 0.402 | 2 | 3HPE3 | 3HPH8 |
| 0.249 in 0. | 0.028 in 1 in | 0.14 in | 0.5 in | 7.0 | 0.552 | 6 | 3HPE4 | 3HPH9 |
| 0.404 in 0.0 | 0.048 in 1.25 in | 0.25 in | 0.625 in | in 8.0 | 2.679 | 6 | 3HPE6 | 3HPJ2 |
| 0.767 in 0. | 0.063 in 2 in | 0.5 in | 1 in | 6.0 | 5.518 | 86 | 3HPE8 | 3HPJ4 |
| 0.803 in 0. | 0.078 in 2 in | 0.5 in | 1 in | 7.0 | 10.446 | 66 | 3HPE9 | 3HPJ5 |
| 0.982 in 0 | 0.105 in 3.5 in | 0.609 in | 1.75 in | 7.0 | 22.5 | 1 | 3HPN4 | 3HPL1 |
| 1.082 in 0. | 0.125 in 4 in | 0.666 in | 2 in | 9.0 | 34.28 | 81 | 3HPN6 | 3HPL3 |
| 1.189 in 0 | 0.135 in 4 in | 0.735 in | 2 in | 9.0 | 42.86 | -1 | 3HPN7 | 3HPL4 |
| 1.356 in 0. | 0.125 in 4 in | 0.885 in | 2 in | 7.0 | 34.29 | 1 | 3HPN8 | 3HPL5 |
| $270{ }^{\circ}$ Angle of Deflection |  |  |  |  |  |  |  |  |
| 0.556 in 0 | 0.045 in 2 in | 0.359 in | 1 in | 7.75 | 2.143 | 6 | 3HPF5 | 3HPK1 |
| 0.826 in | 0.07 in 2 in | 0.531 in | 1 in | 8.75 | 7.5 | 6 | 3HPF6 | 3HPK2 |
| 1.342 in 0. | 0.105 in 3.5 in | 0.891 in | 1.75 in | 7.75 | 22.5 | 1 | 3HPN9 | 3HPL6 |
| 1.666 in 0. | 0.135 in 4 in | 1.112 in | 2 in | 9.75 | 42.86 | 61 | 3HPL7 |  |
| $360^{\circ}$ Angle of Deflection |  |  |  |  |  |  |  |  |
| 0.271 in 0 | 0.021 in 1 in | 0.187 in | 0.5 in | 9.5 | 0.234 | 6 | 3HPF7 | 3HPK3 |
| 0.798 in 0. | 0.063 in 2 in | 0.516 in | 1 in | 10.5 | 5.52 | , | 3HPN2 | 3HPK8 |
| 900 Angle of Deflection |  |  |  |  |  |  |  |  |
| 0.408 in 0 | 0.051 in 2 in | 0.234 in | 1 in | 3.25 | 3.107 | 6 | - | 3HPG7 |
| $270{ }^{\circ}$ Angle of Deflection |  |  |  |  |  |  |  |  |
| 1.666 in 0 | 0.135 in 4 in | 1.112 in | 2.0 in | 9.75 | 42.86 | 1 | - | 3HPK4 |

