



Constant force springs are a special variety of extension spring. They are tightly coiled wound bands of pre-hardened spring steel or stainless steel strip with built-in curvature so that each turn of the strip wraps tightly on its inner neighbor. When the strip is extended (deflected) the inherent stress resists the loading force, the same as a common extension spring, but at a nearly constant (zero) rate.

The constant-force spring is well suited to long extensions with no load build-up. In use, the spring is usually mounted with the ID tightly wrapped on a drum and the free end attached to the loading force, such as in a counterbalance application. This relationship can be reversed, however, with the free end mounted stationary and the spring itself providing the working force, as with carbon brushes in electrical apparatus. Considerable flexibility is possible with constant-force springs because the load capacity can be multiplied by using two or more strips in tandem, or back-to-back.

Comprehensive Capabilities

Ends:

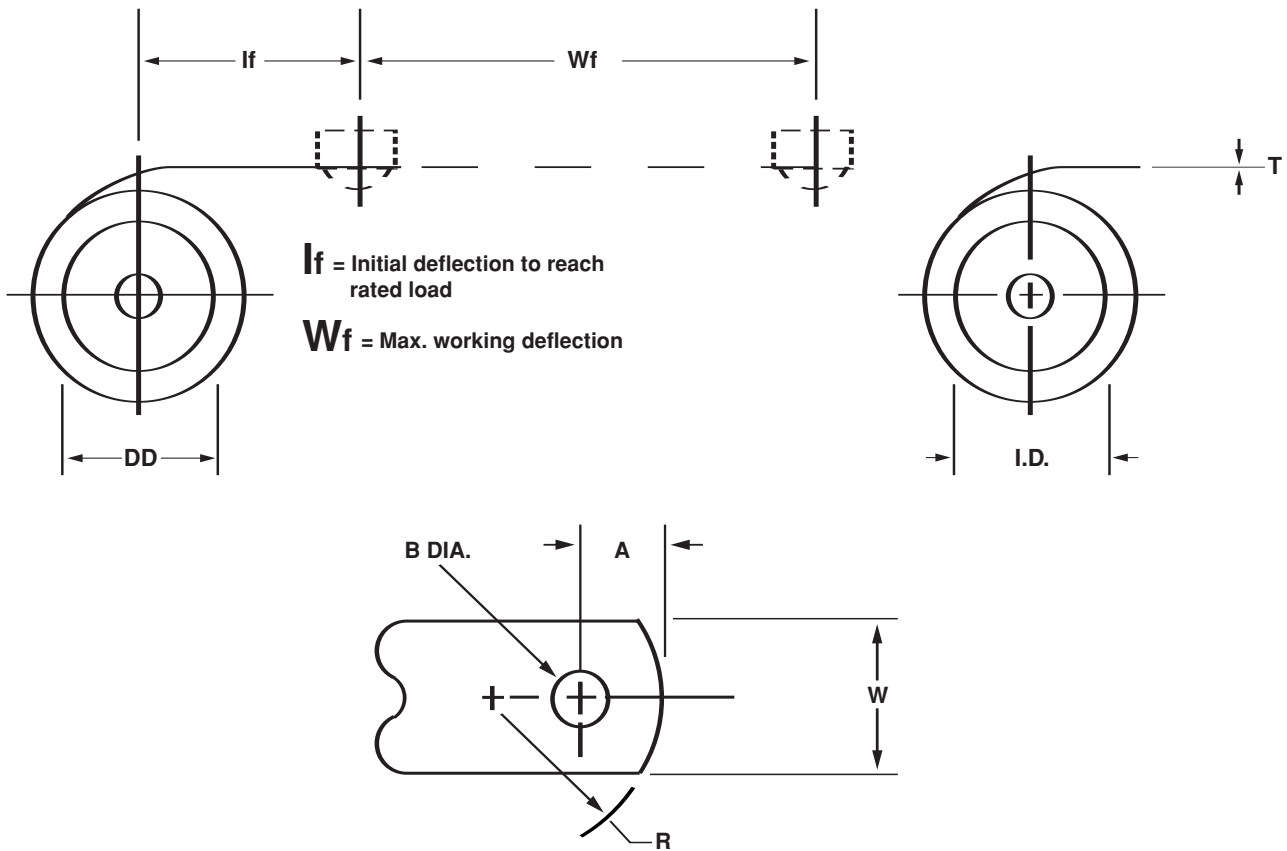
- Holes • Hooks • T Ends • Separating Cut Ends

Wire thickness from .004" through .047"

Wire width from .110" through 1.97"

Materials:

- Stainless Steel 301 • Carbon Steel • Inconel®



INDICATE UNITS OF MEASURE (IN. & LB.), (MM & KG)

1. MATERIAL _____
2. MATERIAL THICKNESS _____
3. MATERIAL WIDTH _____
4. LENGTH _____
5. INSIDE DIA _____
6. DRUM DIA _____
7. LOAD _____ +/- _____
 @ WORKING DEFLECTION _____
8. LIFE CYCLES _____
9. STANDARD END CONFIGURATION: (OTHER CONFIGURATIONS AVAILABLE UPON REQUEST)
 DIMENSION 'A' _____
 DIMENSION 'B' (DIA) _____
 END RADIUS 'R' _____
10. FINISH _____
11. OPERATING TEMP. _____ °F
12. OTHER: _____

COMPANY: _____

ADDRESS: _____

CITY: _____

STATE: _____ ZIP: _____

CONTACT: _____

PHONE: _____

FAX: _____

EMAIL: _____

QUANTITIES TO BE QUOTED: _____

END USE OR APPLICATION: _____

CUSTOM SPRINGS