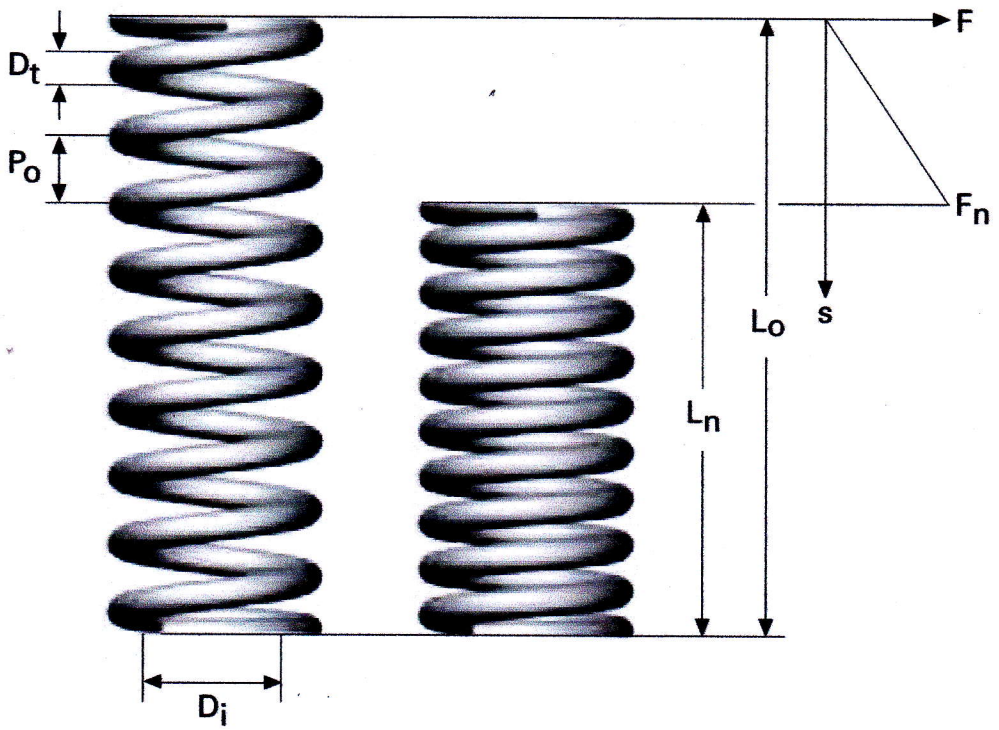
COMPRESSION SPRINGS

SF-TF, SF-TFR Stainless Steel

1506-0060
1605-0061



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S4WNJ0100Z4 → End Grind

Compression springs for general use. Dimensions according to Lesjöfors standards.

All dimensions are in mm

D_t = Wire diameter 1.00mm
D_i = Inner diameter 8.00mm
D_y = Outer diameter $D_i + D_t + D_t$ 10.00mm
L_o = Unloaded length 10.00mm
n_t = Total number of coils 4.00
P_o = Pitch 3.53mm
L_n = Permitted loaded length for dynamic load
F_n = Spring force in Newtons at L_n
c = Rate
L_{st} = Solid length = $D_t \times n_t$
s = Deflection

Coiling: Right hand ✓

Material: D_t 0.20–10 = EN 10270-1-SM
D_t 12–14 = EN 10270-1-SH
Stainless steel D_t 0.2-2.0 = EN 10270-3-1.4310-HS

Tolerances: SS 2384. For D_i the plus tolerance x1.5 applies, therefore the springs can be placed on a shaft with the same diameter as the D_i of the spring. See page 220 for more information.

Max. working temperature: EN 10270-1 = 120 °C
EN 10270-3-1.4310 = 250 °C ✓

Springs with $D_t \leq 0.4$ do not have ground end coils, others have 3/4 end coils ground. ✓

Springs with $D_t \geq 2.0$ are shot peened.

Static loaded springs or springs with a low number of intended load deflections can be allowed to be scragged to solid length (L_{st}). A certain relaxation (load loss) will then appear.

1 kp = 9.80665 Newtons, 1 Newton = 0.10197 kp

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