

OUTPUT:

Minimum force: 184 N
Maximum force: 884 N
Wire diameter: 6 mm
Spring index: 5.57
Coil diameter: 33.42 mm
Clash allowance: 2.25 mm
Spring rate: 31111.1111 N/m
Number of Active Coils: 11.0207
Total number of Coils: 13.0207
Solid length: 84.1239 mm
Free length: 114.7882 mm
The force that closes the spring: 954 N
Ks: 1.0898
Kw: 1.2745
Slenderness ratio: 3.4347
Deflection ratio: 0.24754
Safety factor against buckling : 3.3387-1.2102i
Mass of Active Coils: 0.25191 kg
Natural frequency: 32.723 1/s
Safety against spring surge: 9.132
Ultimate tensile strength: 1264.9608 MPa
Ultimate shear strength: 569.2324 MPa
Yield strength: 948.7206 MPa
Shear yield Strength: 569.2324 MPa
Stress in solid state: 409.6139 MPa
Safety factor against yielding: 1.3897
Alternating stress: 175.7559 MPa
Mean stress: 268.1532 MPa
Torsional stress: 474.3603 MPa
Safety factor against fatigue failure: 1.2015
Material Selection: A227