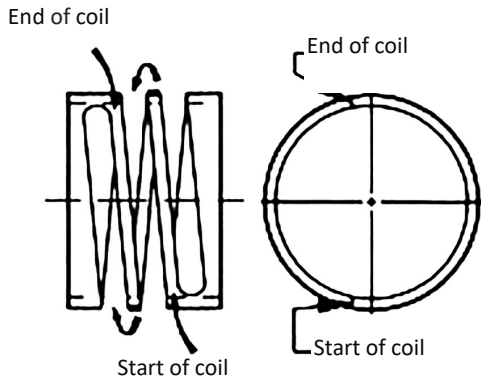
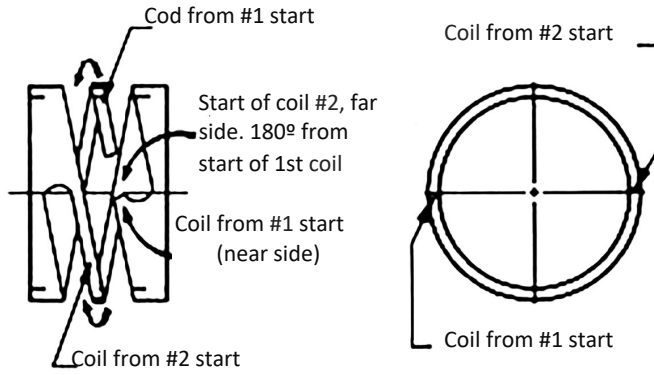


Single start spring

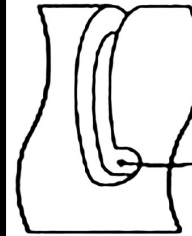


Double start spring-

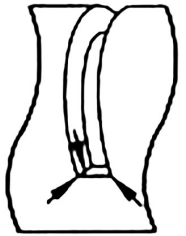


Stress relief hole-
Practice of providing a radius or curve in what would otherwise be a high, stress area to reduce stress concentration.

Stress riser-
Abrupt geometry changes in a part which raises local stress values significantly.

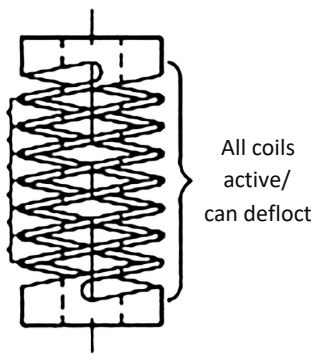


Stress relief hole



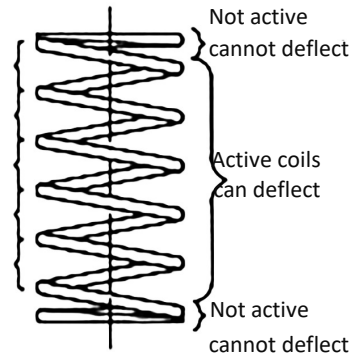
High stress areas indicated with arrows

Active coils-
Those coils which are free to deflect under load.



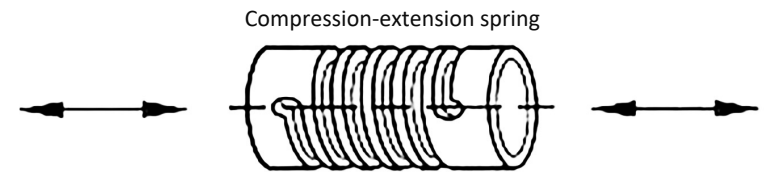
Machined spring

Active coils-
Those coils which are free to deflect under load.

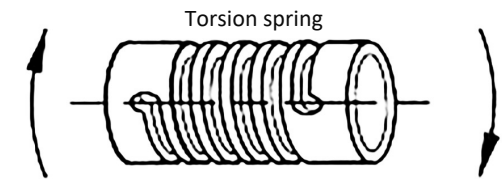


Wire wound spring

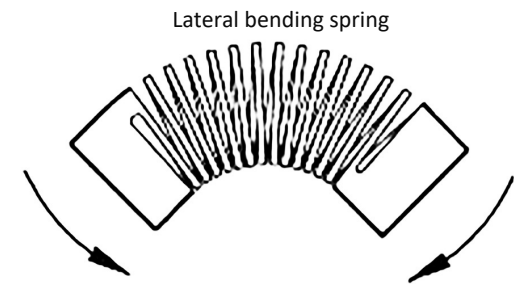
Helix-
The spiral form (open or closed) of compression, extension, torsion, lateral translation, lateral bending springs.



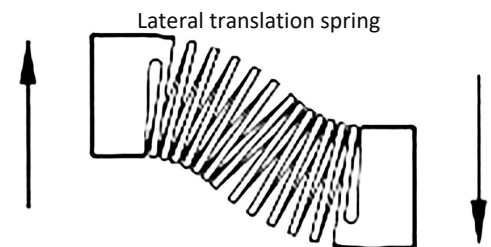
Compression-extension spring



Torsion spring

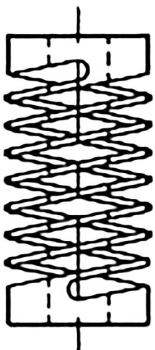


Lateral bending spring



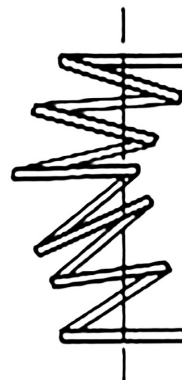
Lateral translation spring

No Buckling-
No unwanted lateral deflection with double start. (or more) machined springs.



Machined spring

Buckling-
Unwanted lateral deflection of Compression springs.



Wire wound spring