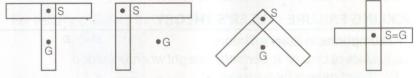
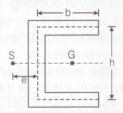
- Shear centre is a point from which a concentrated load passes then there will be only bending and no twisting. It is also called centre of flexure. It is that point through which the resultant of shear passes.
- Shear centre always lies on the axis of symmetry if exists.



S = shear centre, G = Centre of gravity

DISTANCE OF SHEAR CENTRE FOR IMPORTANT SECTIONS

1. Channel Section

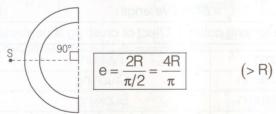


$$e = \frac{b^2 h^2 t}{4 I}$$

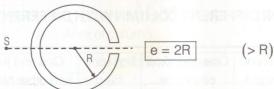
$$t = thickness$$

Where, I is MOI about symmetrical axis.

2. Semicircular Section



3. Open Circular Slit



NOTE

If slit is closed then shear centre will coincide will C.G.