SECTIONS OF SOLIDS

ONE OF ENGINEERING APPLICATIONOF PROJECTION OF SOLIDS IS SECTION OF SOLIDS.

- Hidden features of an object are shown using dotted lines in their projected views
- When there are too many hidden features, it becomes difficult to visualize the object
- In such cases one usually shows a sectioned view of the solid - the view obtained by virtually cutting the solid by a plane called the section (cutting) plane and removing the part between the observer and the plane

SECTIONING A SOLID.

An object (here a solid) is cut by some imaginary cutting plane to understand internal details of that object.

The action of cutting is called SECTIONING a solid &

The plane of cutting is called SECTION PLANE.

Two cutting actions means section planes are recommended.

- A) Section Plane perpendicular to Vp and inclined to Hp.
 (This is a definition of an Aux. Inclined Plane i.e. A.I.P.)
 NOTE:- This section plane appears

 as a straight line in FV.
- B) Section Plane perpendicular to Hp and inclined to Vp.

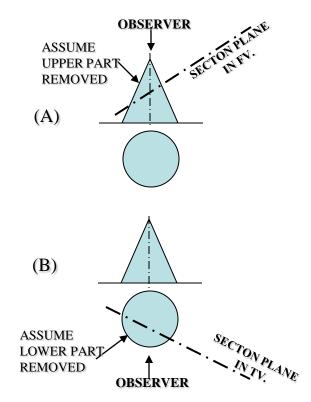
 (This is a definition of an Aux. Vertical Plane i.e. A.V.P.)

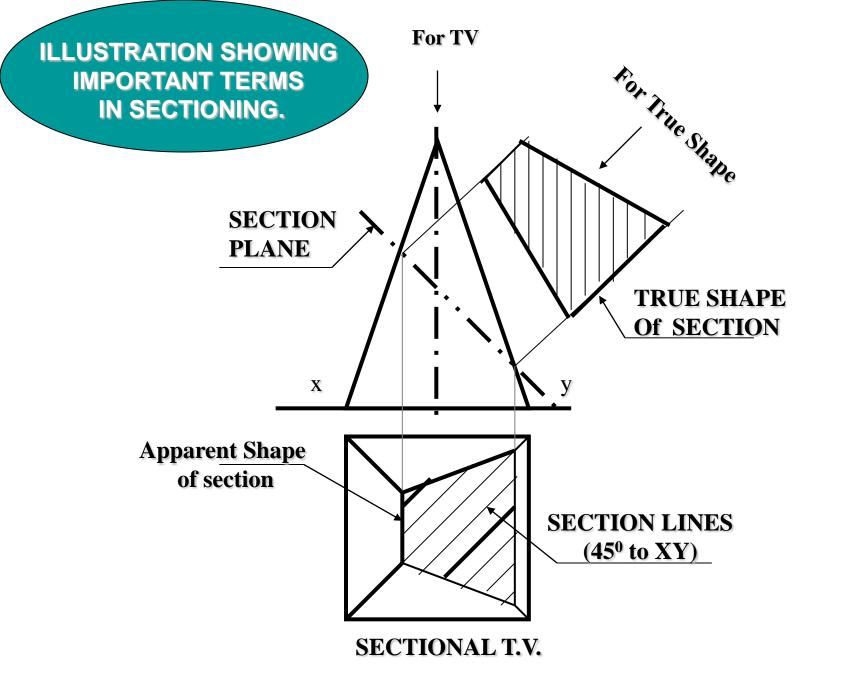
 NOTE:- This section plane appears

 as a straight line in TV.

Remember:-

- 1. After launching a section plane either in FV or TV, the part towards observer is assumed to be removed.
- 2. As far as possible the smaller part is assumed to be removed.





Typical Section Planes &
Typical Shapes
Of
Sections.

