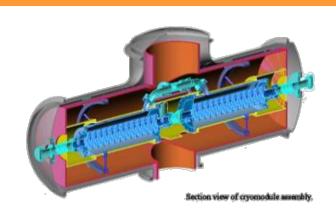
Chapter 10

Conventional Practice in Section View







TOPICS

- Section view representation of *rib*, *web*, *spoke* and *lug*.
- Aligned section
- Conventional break

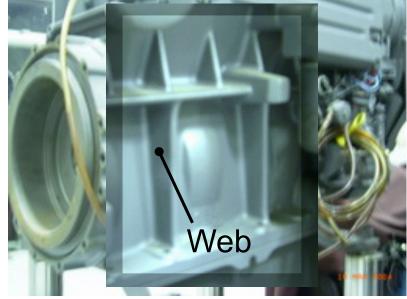
Section view representation of rib, web, spoke and lug



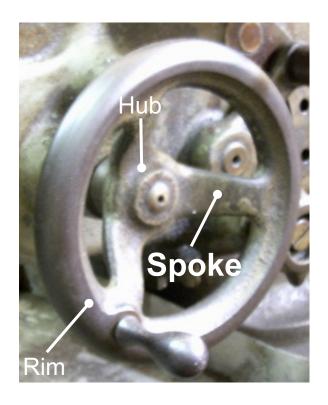
Rib and **Web** are thin, flat feature of an object that acts as a structural support.

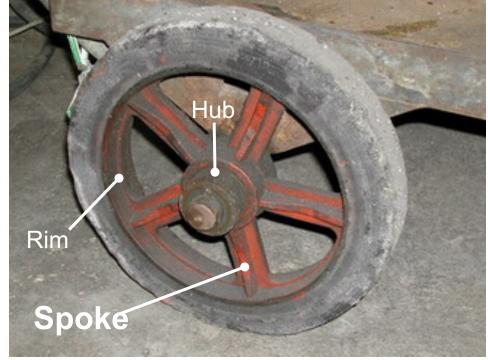






Spoke is the rod radiating from the **hub** to the **rim** of a wheel.





Lug is an ear which is built as portion of an object for attachment.





Lug is an ear which is built as portion of an object for attachment.

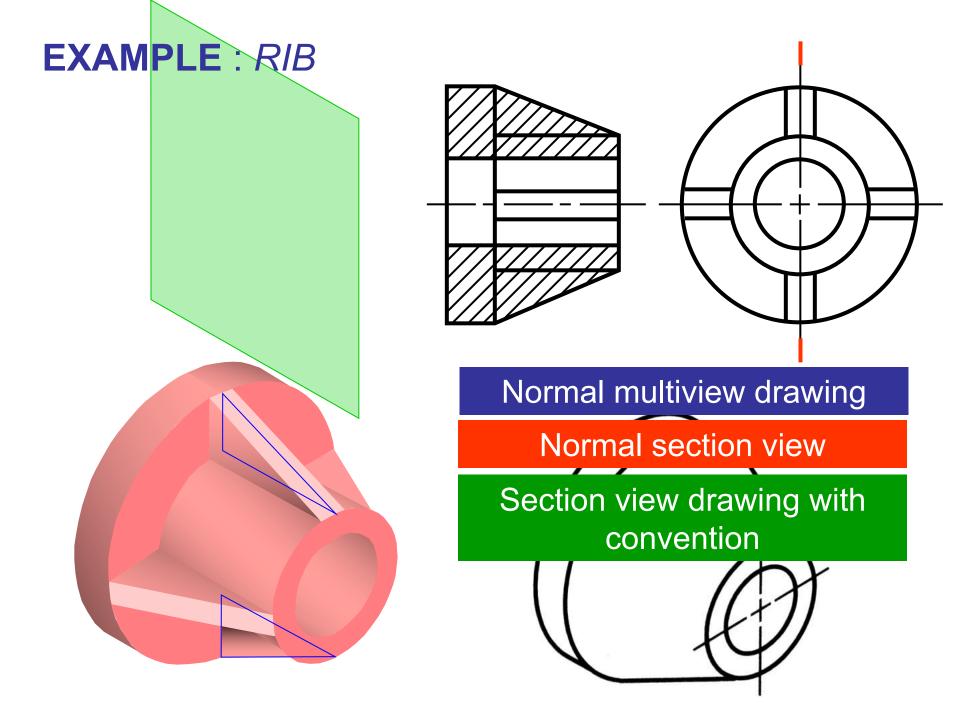


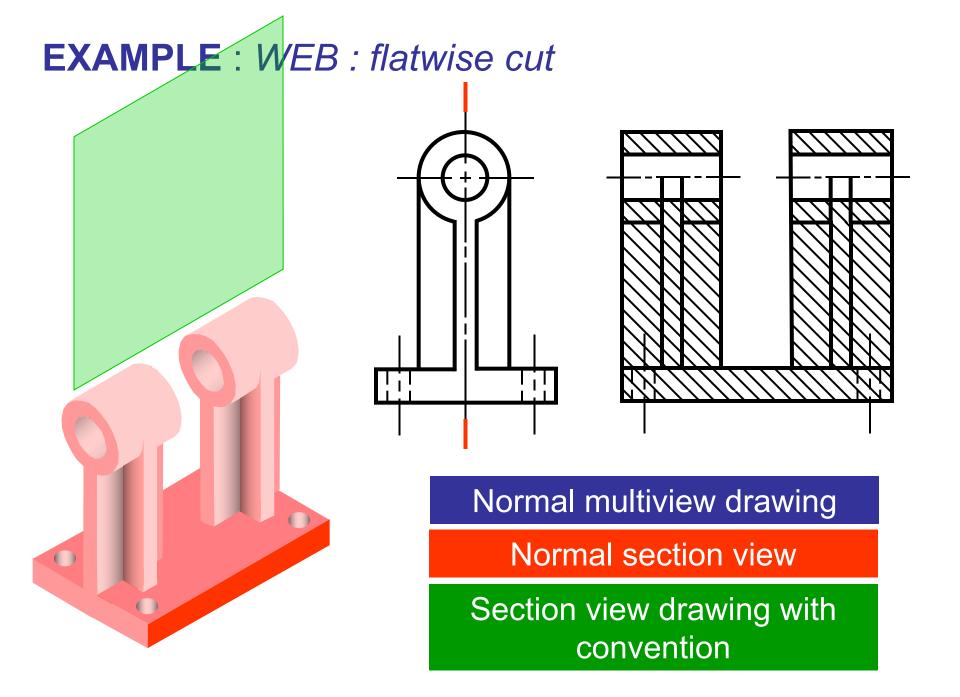


CONVENTIONAL PRACTICE

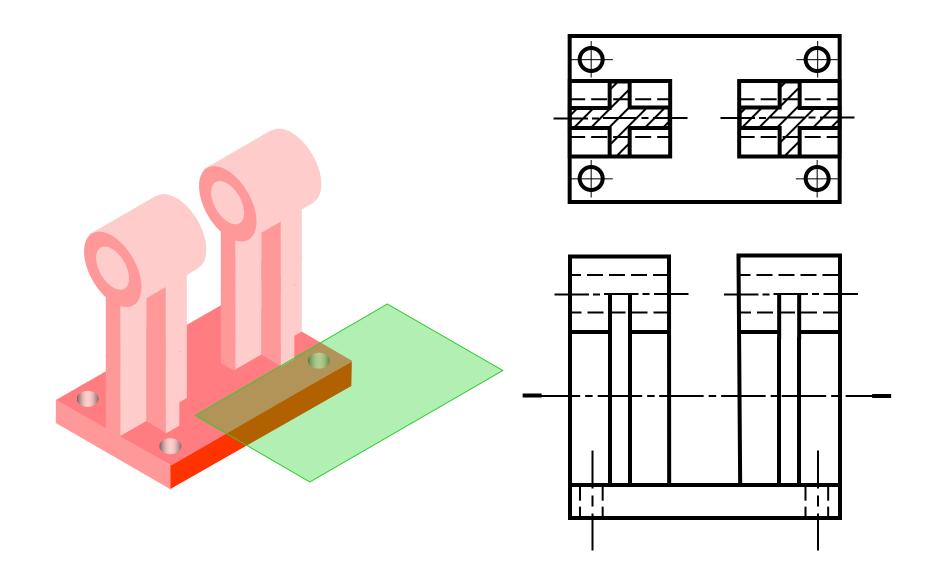
Omit the section lines on the section view of

- Rib, Web and Lug, if the cutting plane is passed *flatwise* through.
- Spoke, if the cutting plane is passed longwise through.

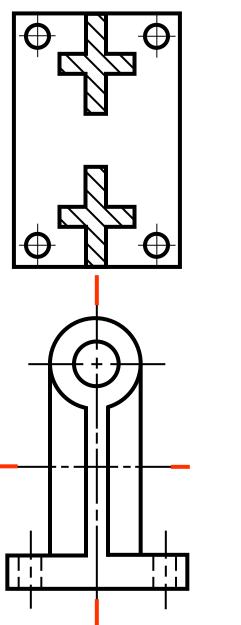


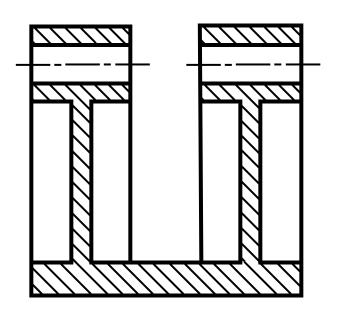


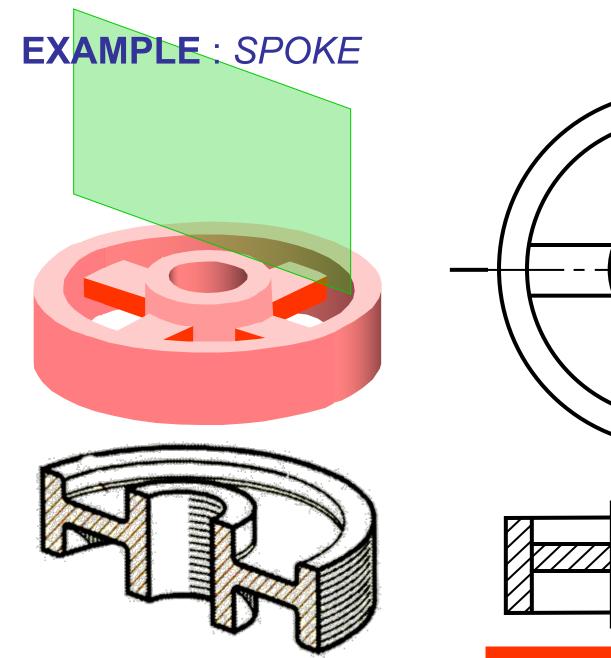
EXAMPLE: WEB: crosswise cut

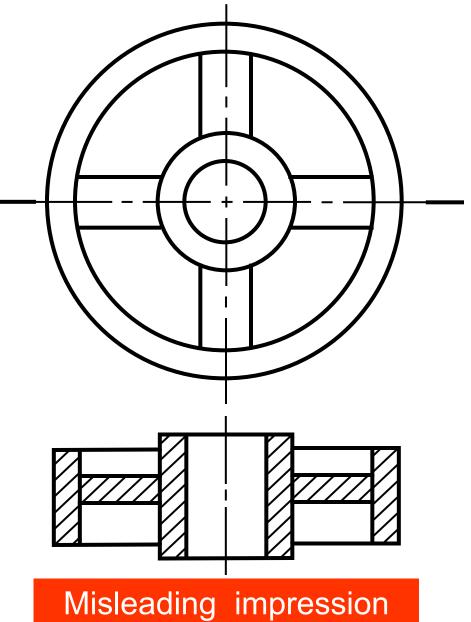


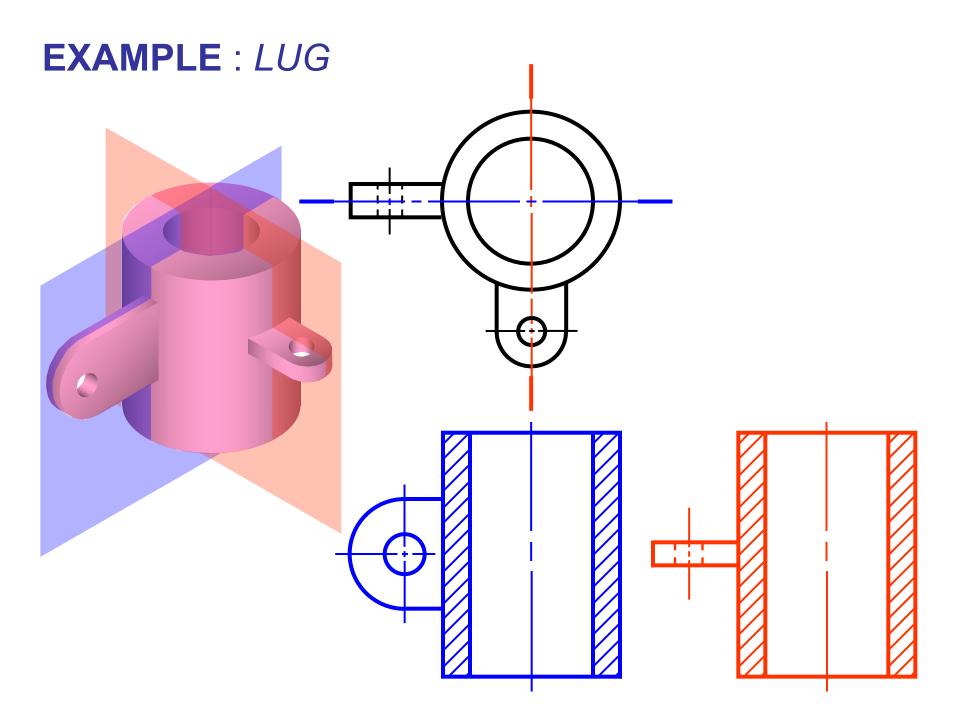
EXAMPLE: WEB: multiple section view











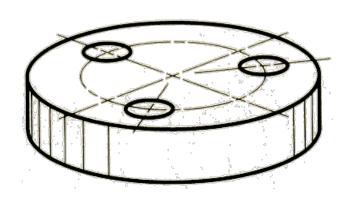
Aligned Section

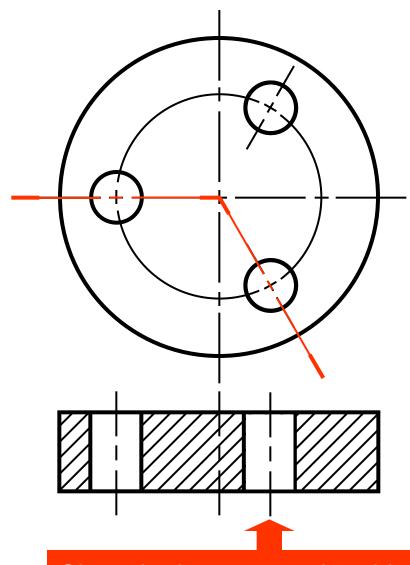


DEFINITION

Aligned section is a section view that is drawn by *imaginary rotating* the object's features appeared in a principal view about symmetry axis

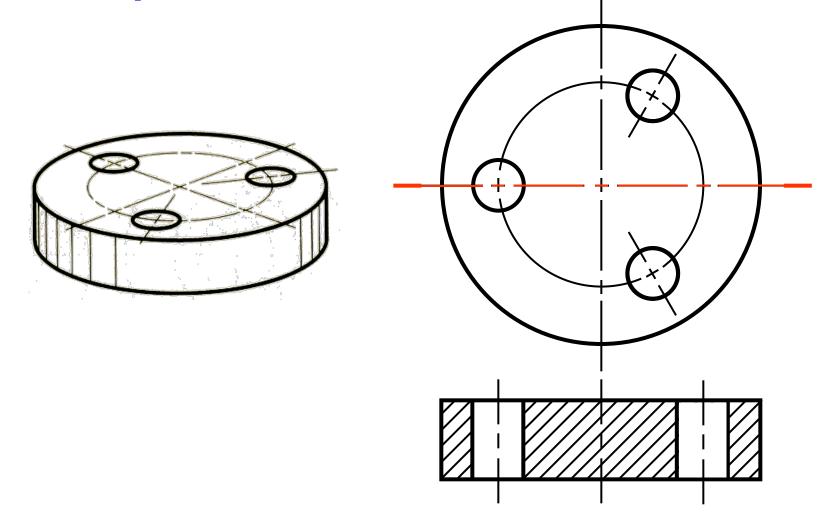
Example: Hole



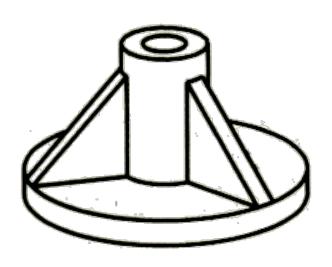


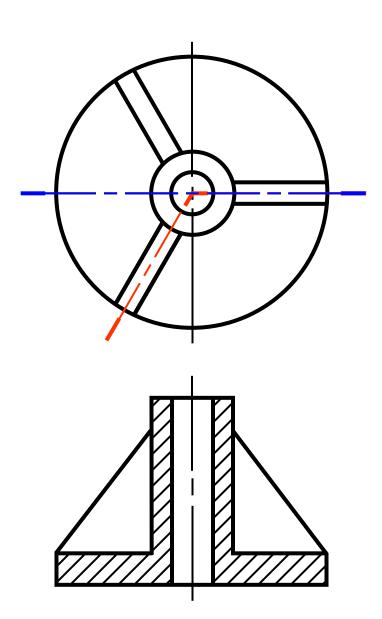
Gives the impression that this holes are at unsymmetrical position.

Example: Hole

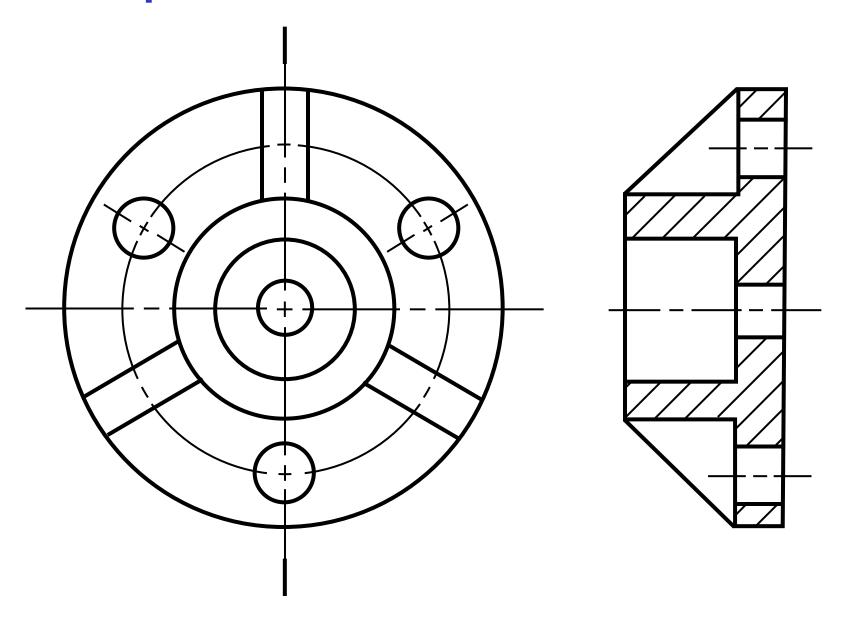


Example: Rib

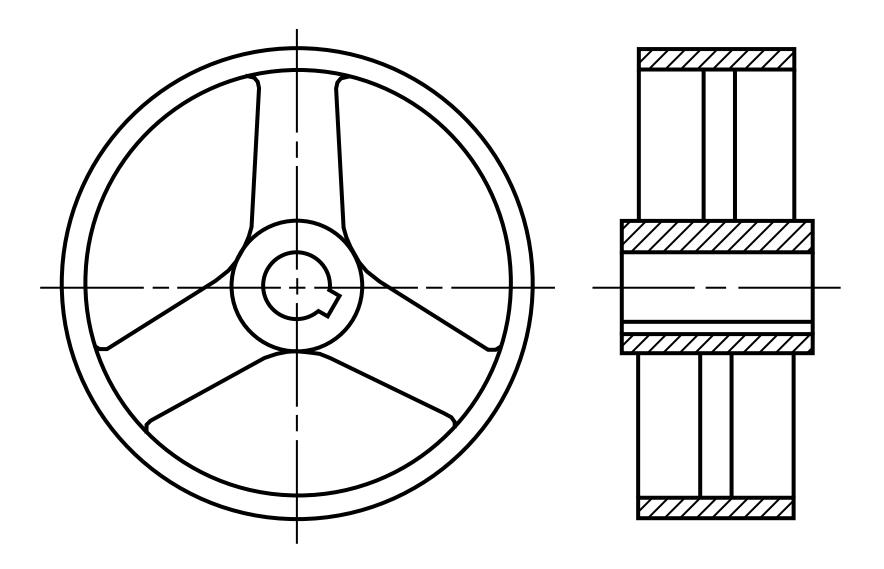




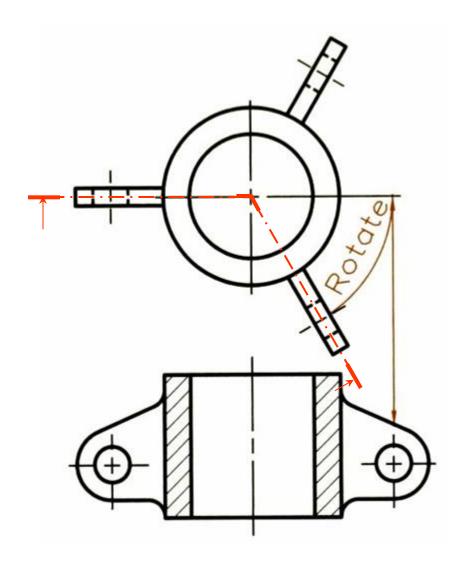
Example: Ribs & Holes



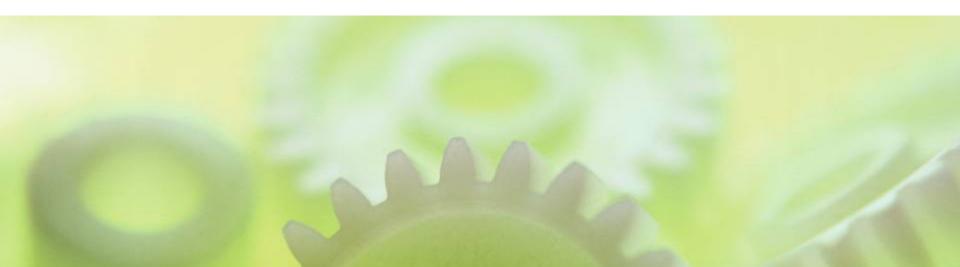
Example: Spoke & Keyway



Example: Lug



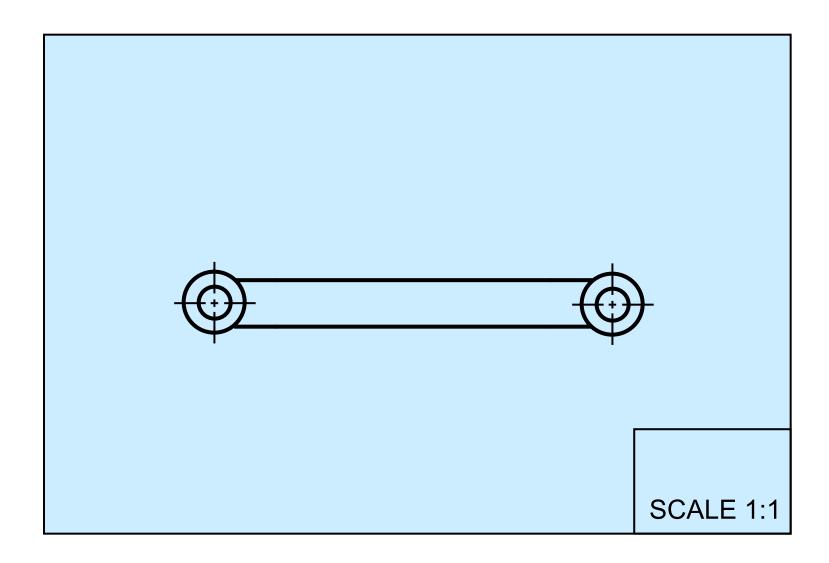
Conventional Break



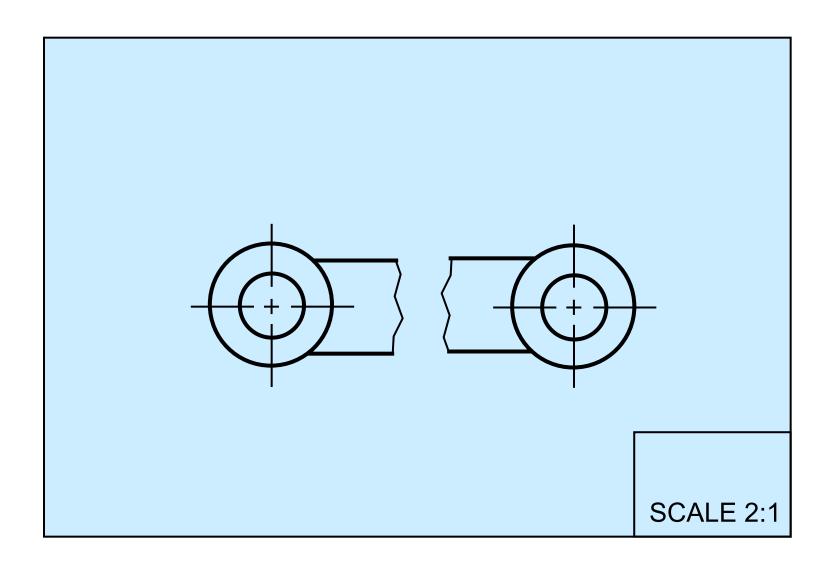
CONVENTIONAL PRACTICE

For *long objects* that have to draw in a small scale to fit them on the paper, it is recommended to remove its long portion (which contains *no* important information) and draw the break lines at the broken ends.

Example



Example

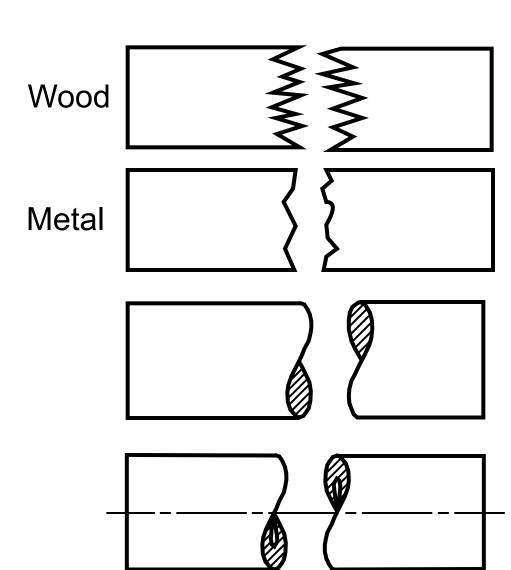


STANDARD BREAK LINES

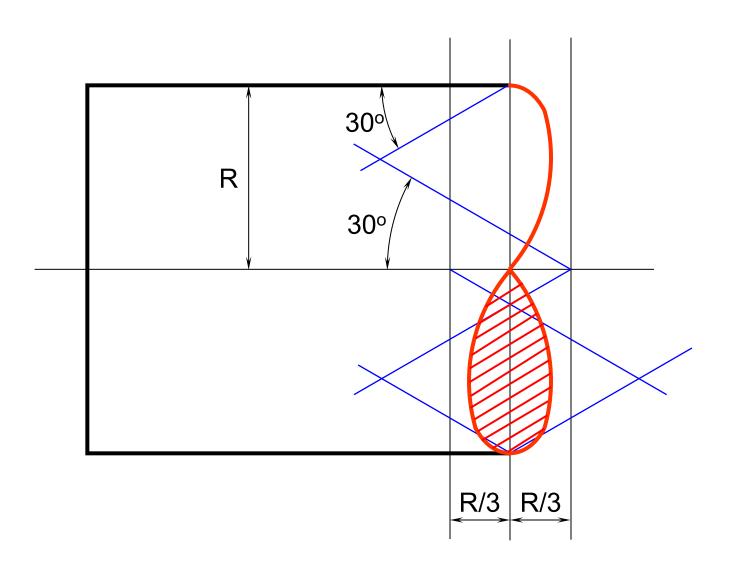
Rectangular cross section

Cylindrical cross section

Tubular cross section

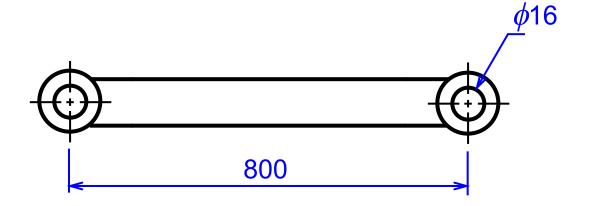


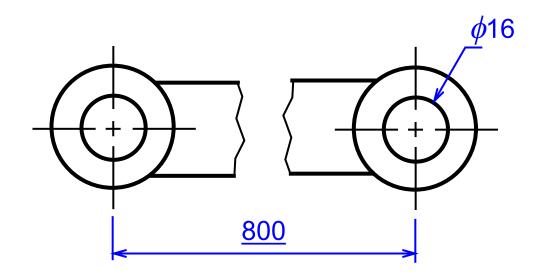
TO DRAW CYLINDRICAL BREAK



TO DIMENSION A BROKEN PART

Typical dimensioning method





not to scale dimensions