

Chapter 11: Drawing files

Manufacture drawing files

Provide all information to allow the manufacture of an object

Accurate and clear information

→ Manufacturer and inspector of the part

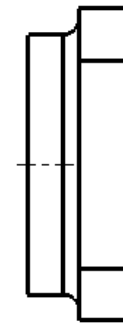
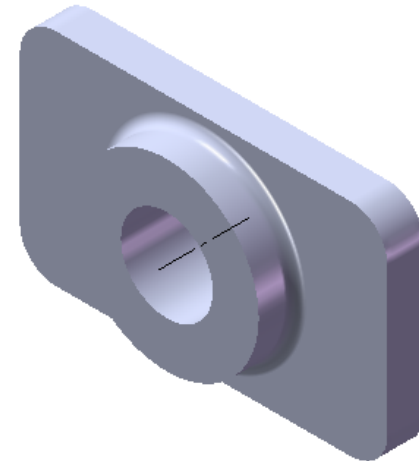
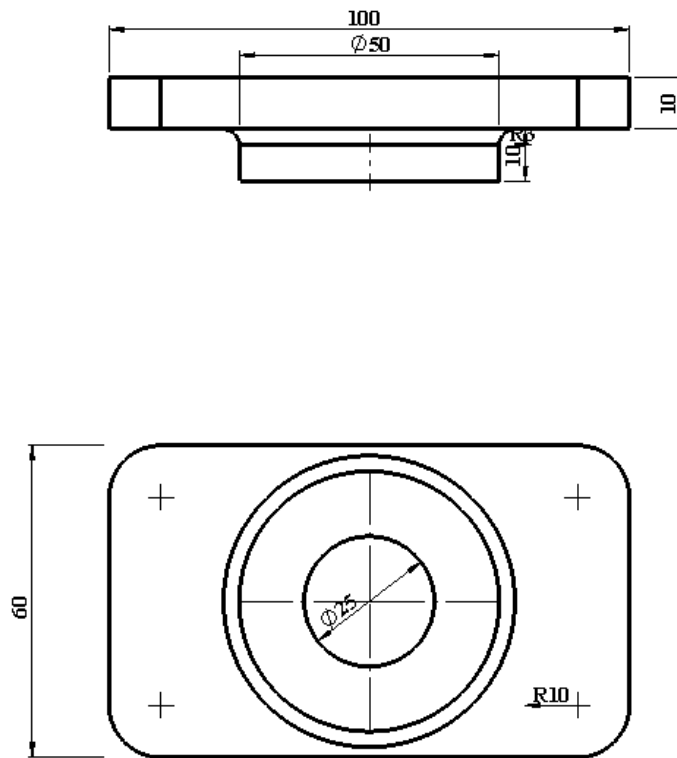
Required information:

- Geometry: shape of the part
- Dimension: size and location of features
- Tolerance: required accuracy of dimensions

Chapter 11: Drawing files

Geometry

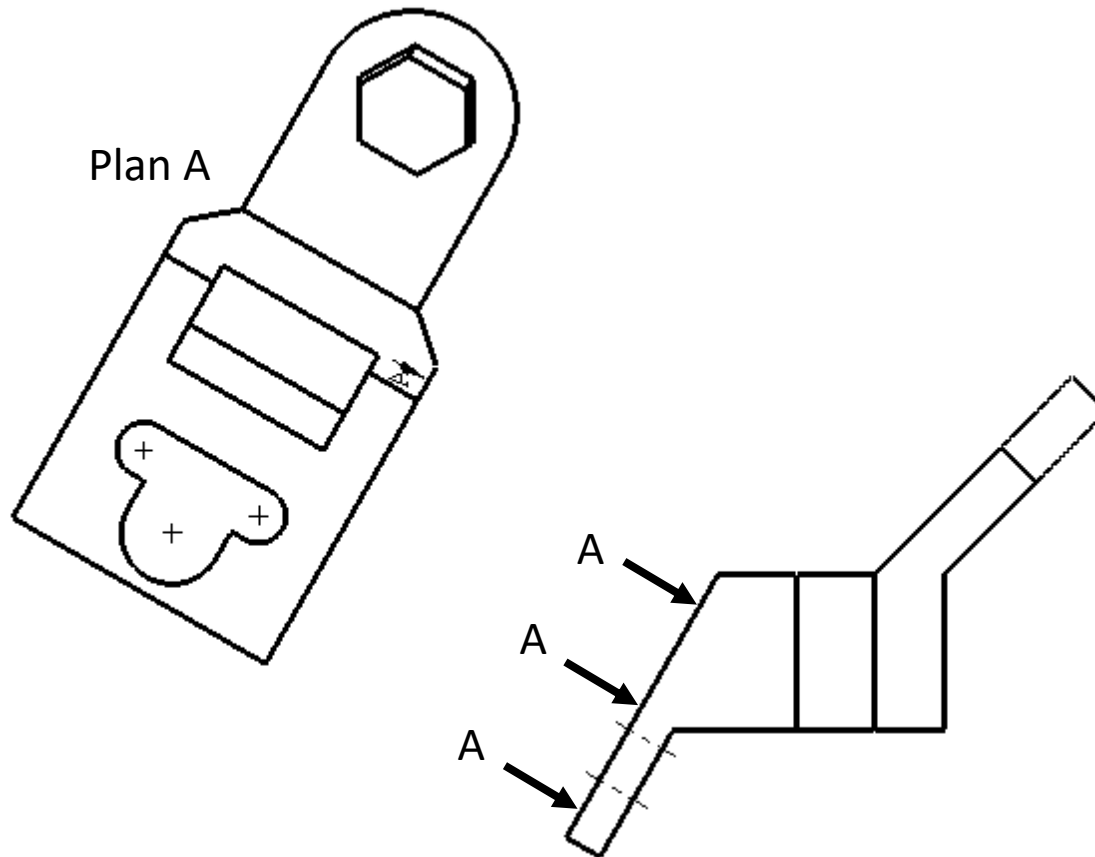
Standard projected views



Chapter 11: Drawing files

Geometry

Projected views using part feature

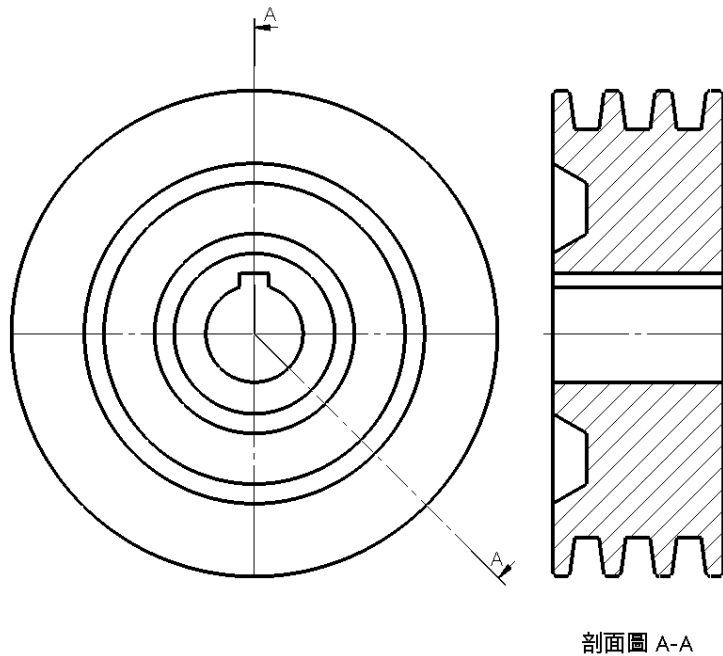


Chapter 11: Drawing files

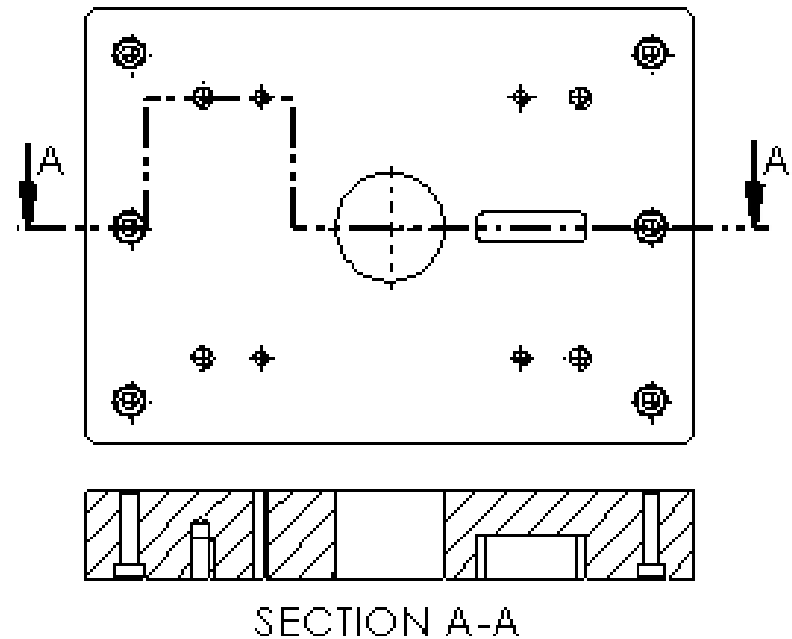
Geometry

Global section views

Single section



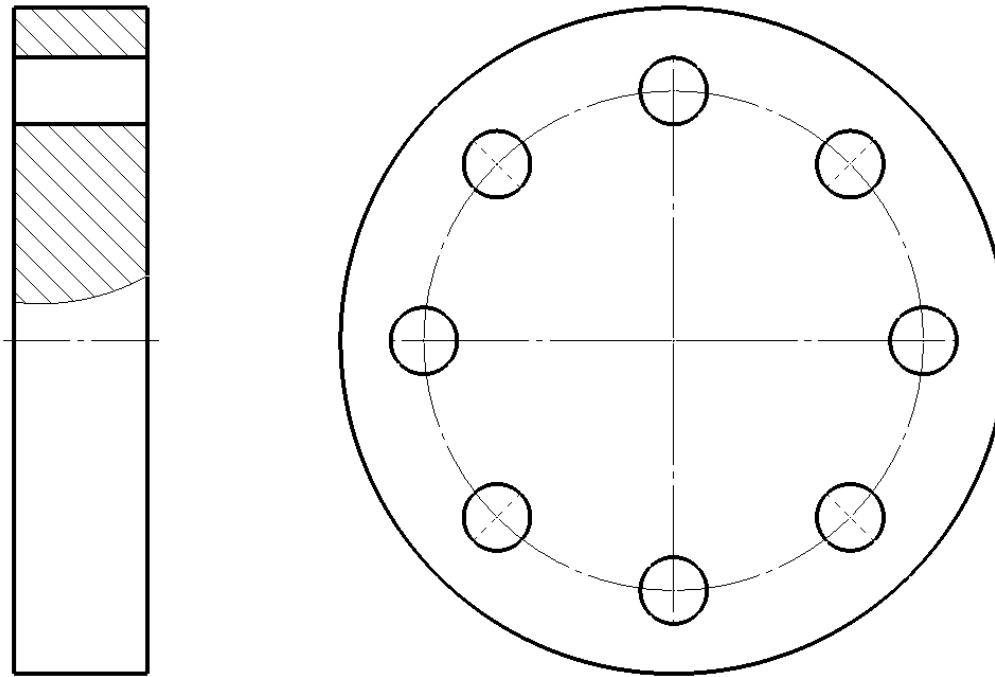
Multi section



Chapter 11: Drawing files

Geometry

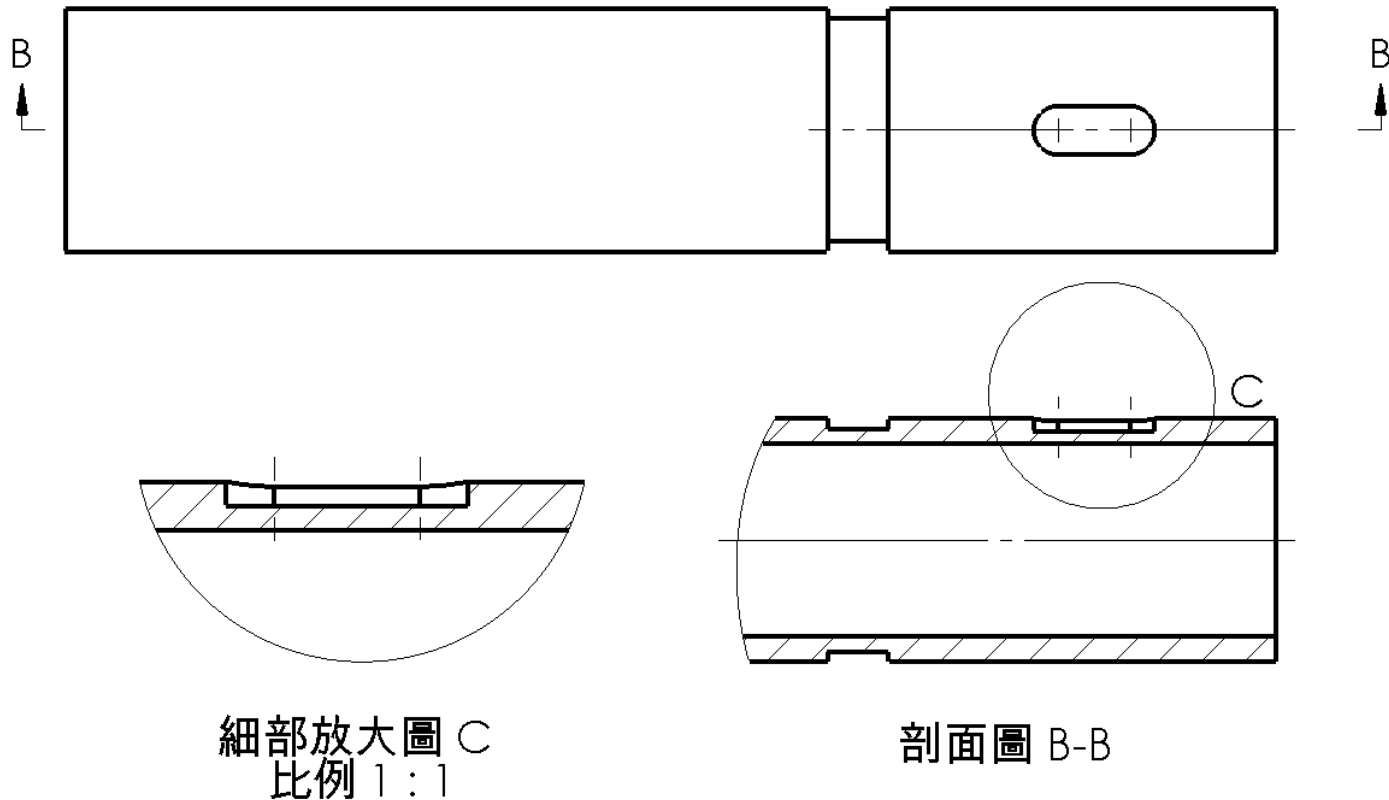
Local section views



Chapter 11: Drawing files

Geometry

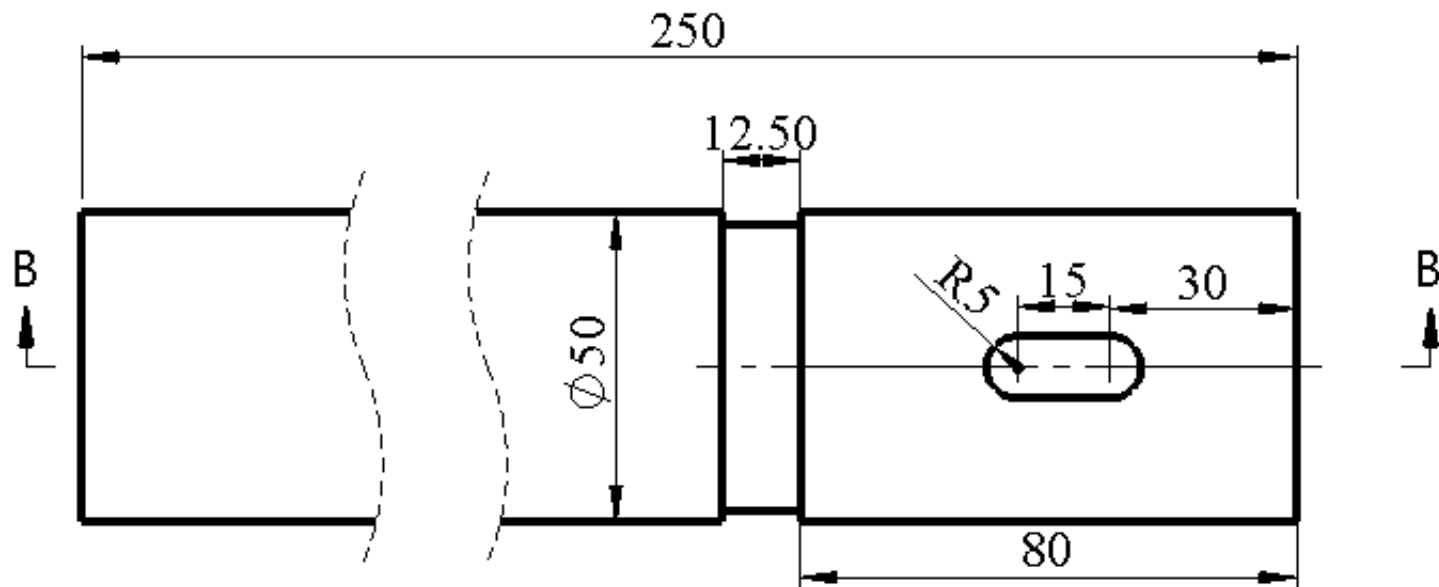
Detailed views



Chapter 11: Drawing files

Geometry

Break views

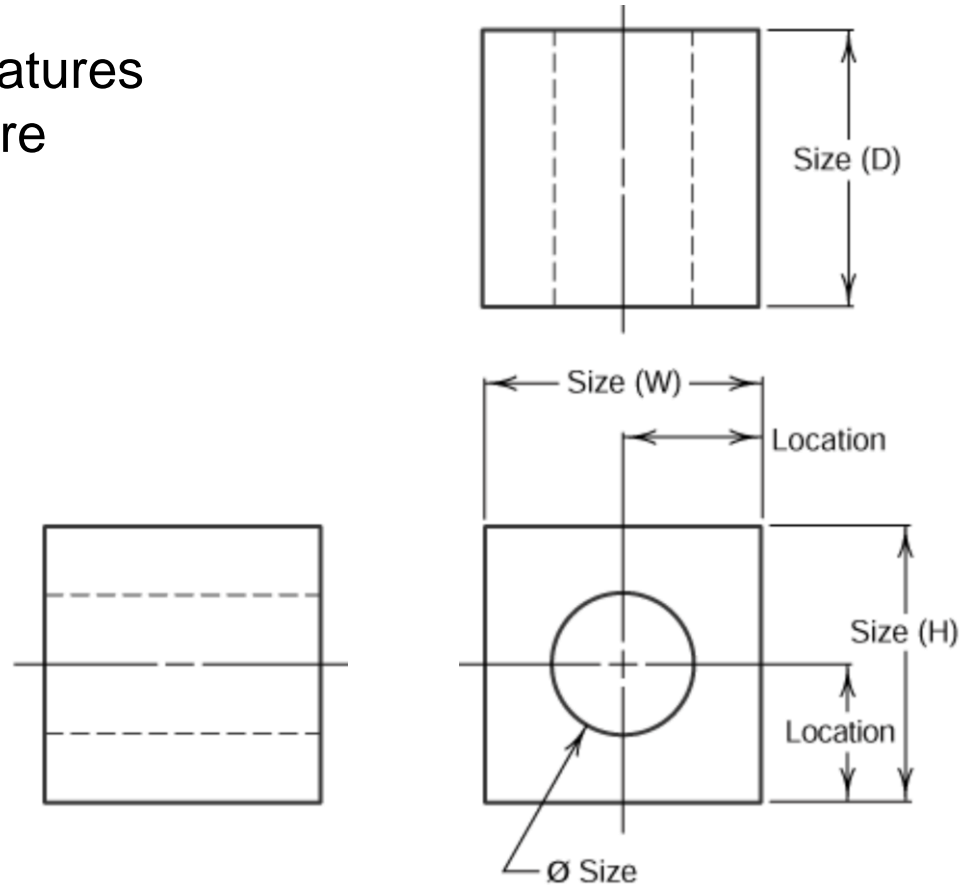


Chapter 11: Drawing files

Dimensions

Functions:

- Size of part or features
- Location of feature



Chapter 11: Drawing files

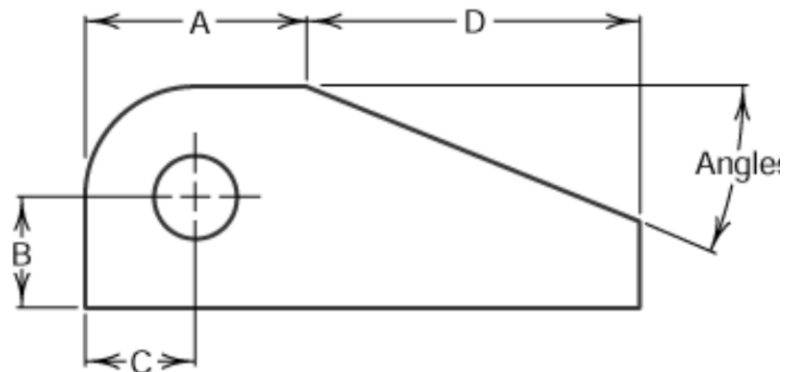
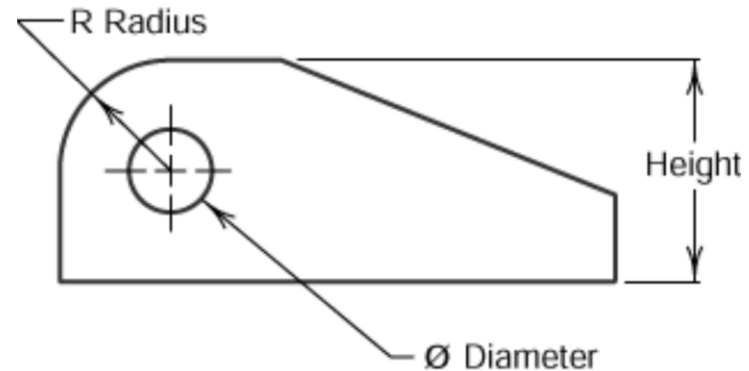
Dimensions

Size dimensions:

- Horizontal
- Vertical
- Diameter
- Radius

Location orientation:

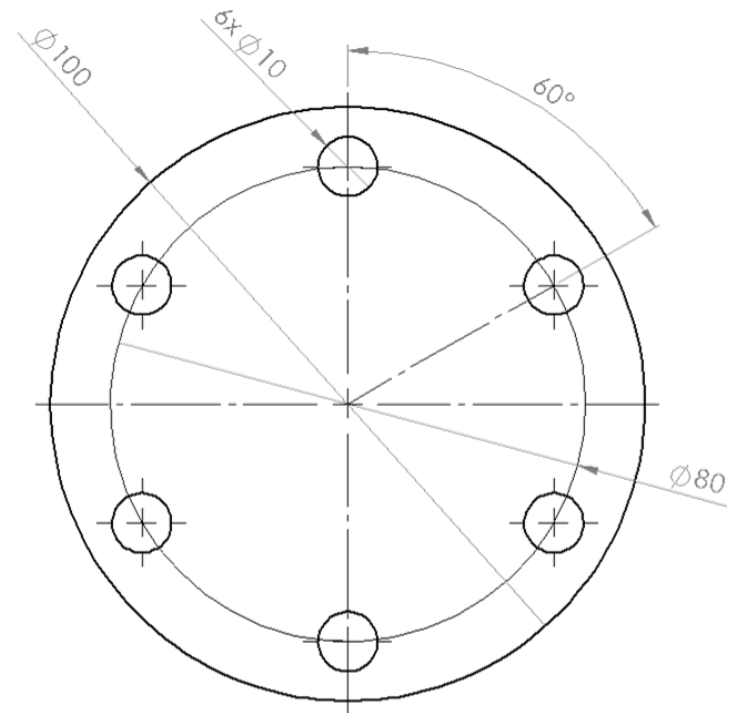
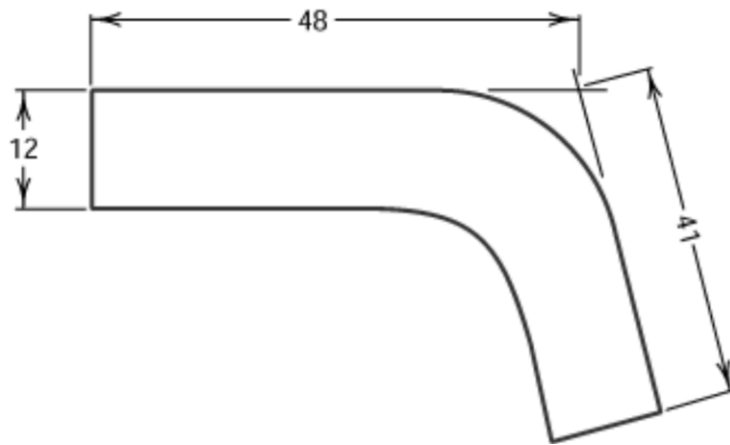
- Horizontal
- Vertical
- Angle



Chapter 11: Drawing files

Dimensions

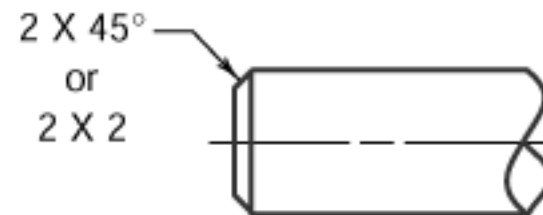
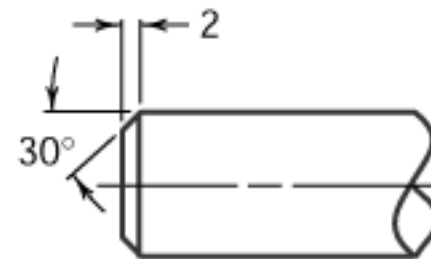
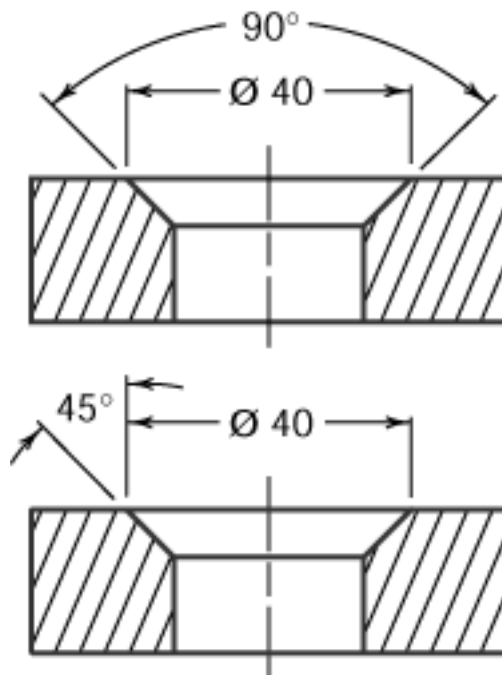
Dimensions using sketch



Chapter 11: Drawing files

Dimensions

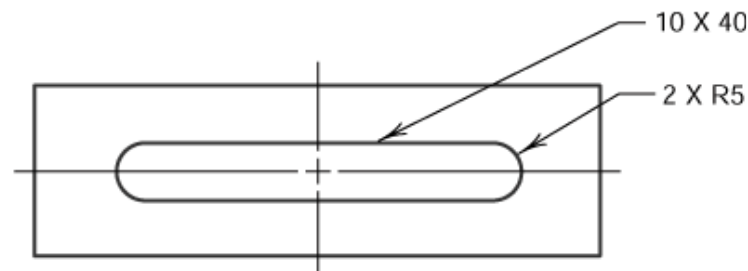
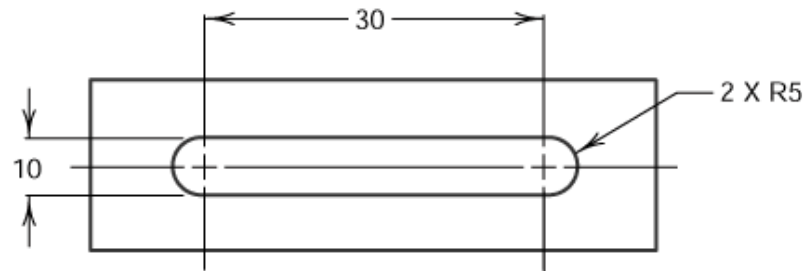
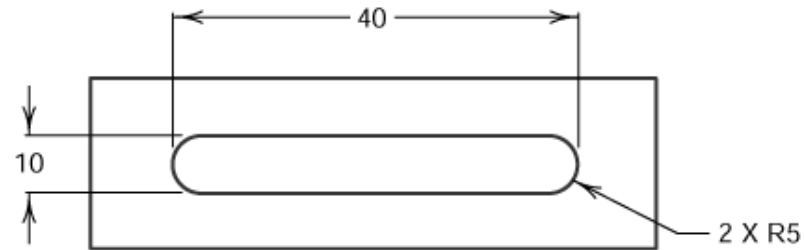
Dimensions of chamfers



Chapter 11: Drawing files

Dimensions

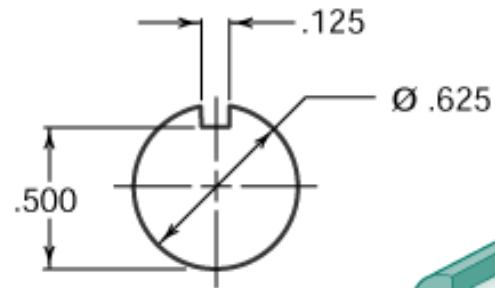
Dimensions of slotted holes



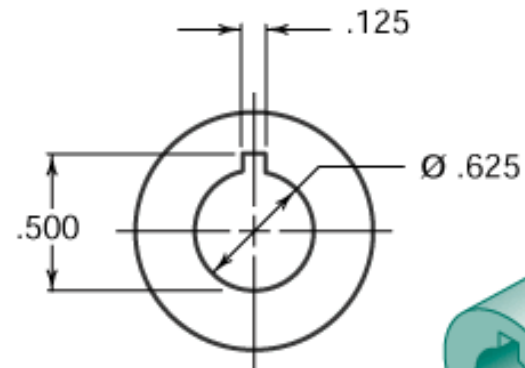
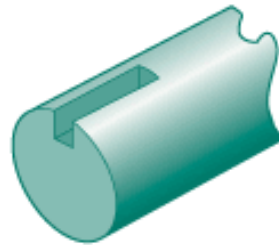
Chapter 11: Drawing files

Dimensions

Dimensions of keyseat and keyway



Keyseat



Keyway

