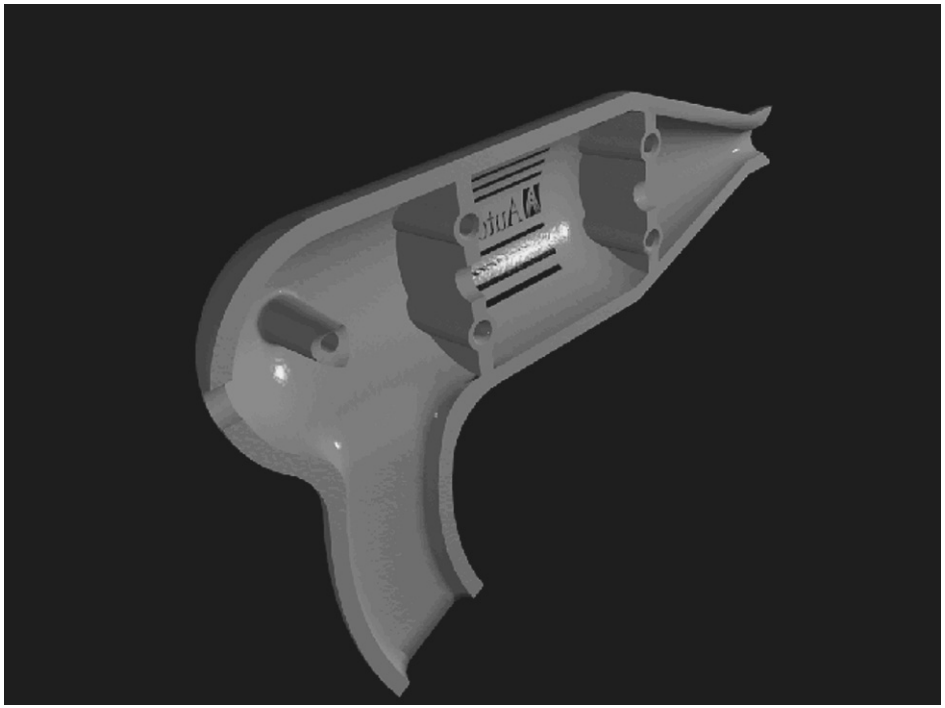


Figure 7-0.1

A Section Created with CAD.

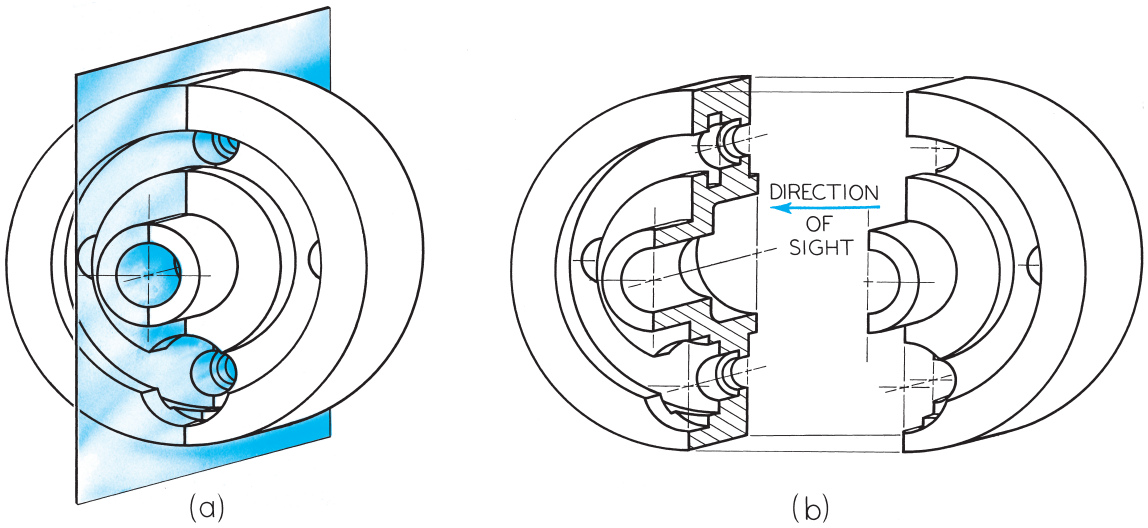
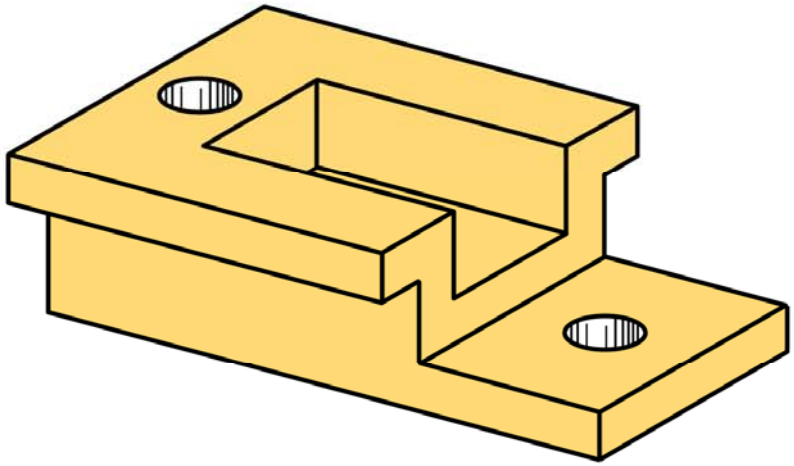
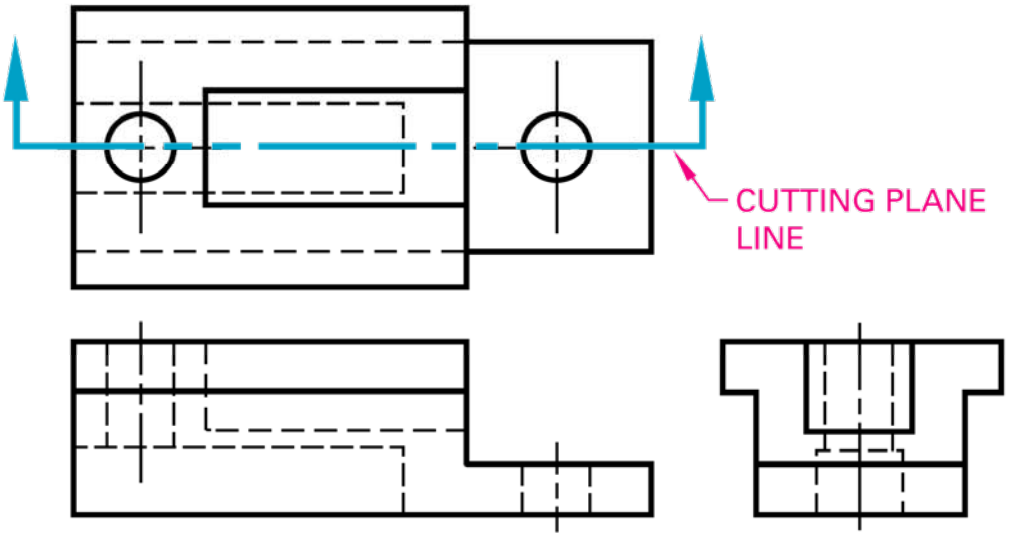


Figure 7-1

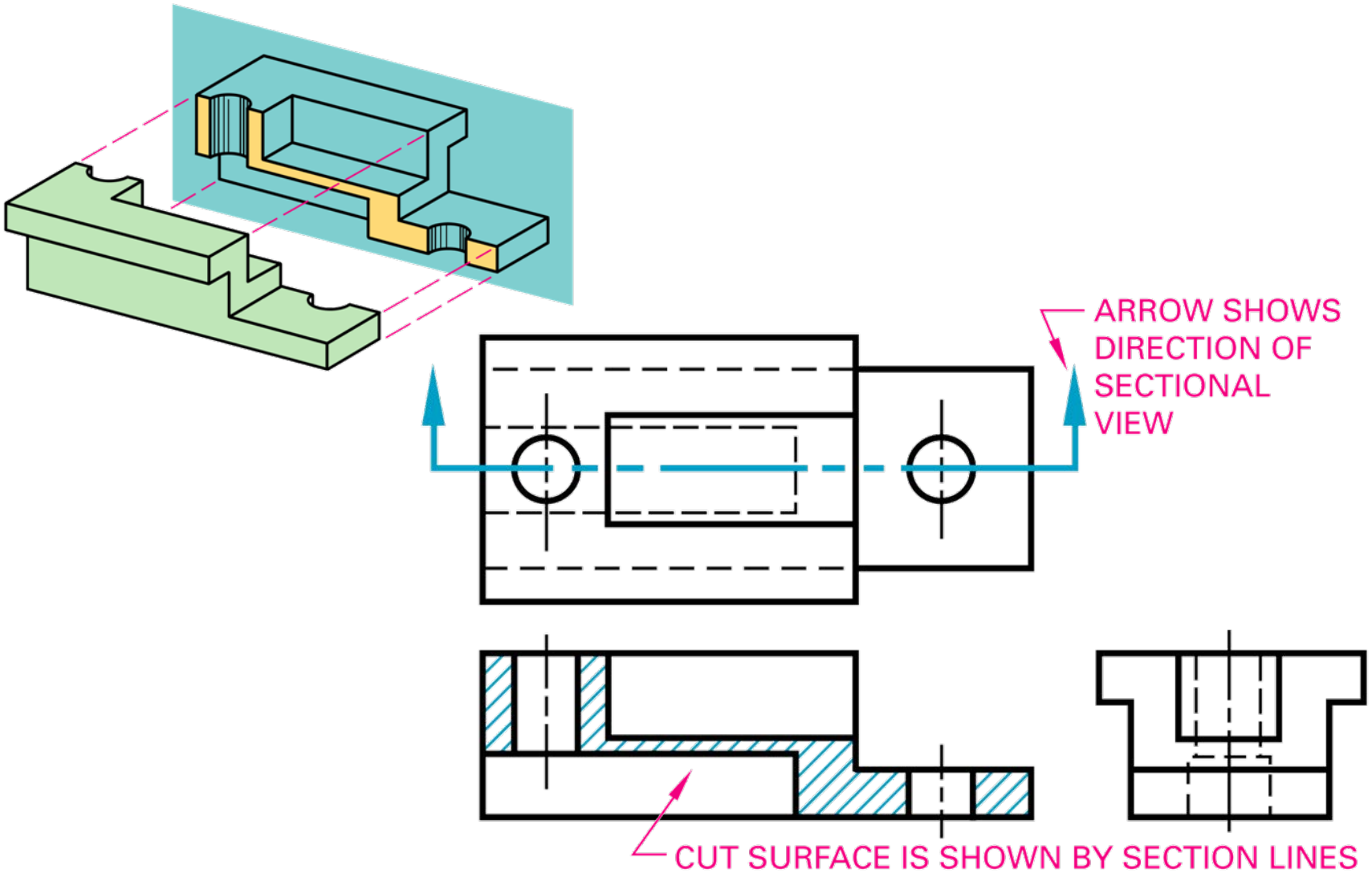
A Section.

Sectional Views





Sectional Views



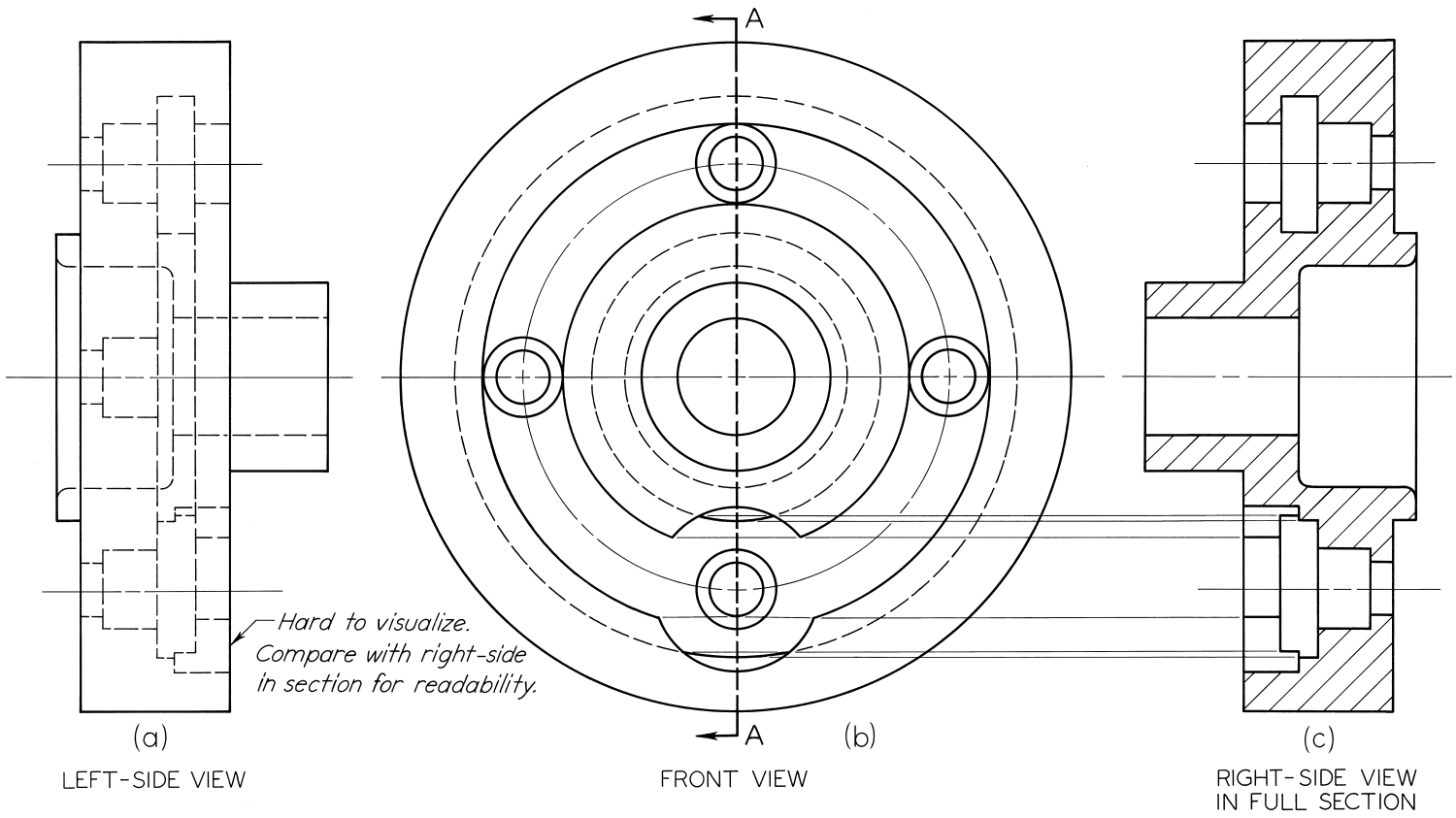


Figure 7-2

Full Section.

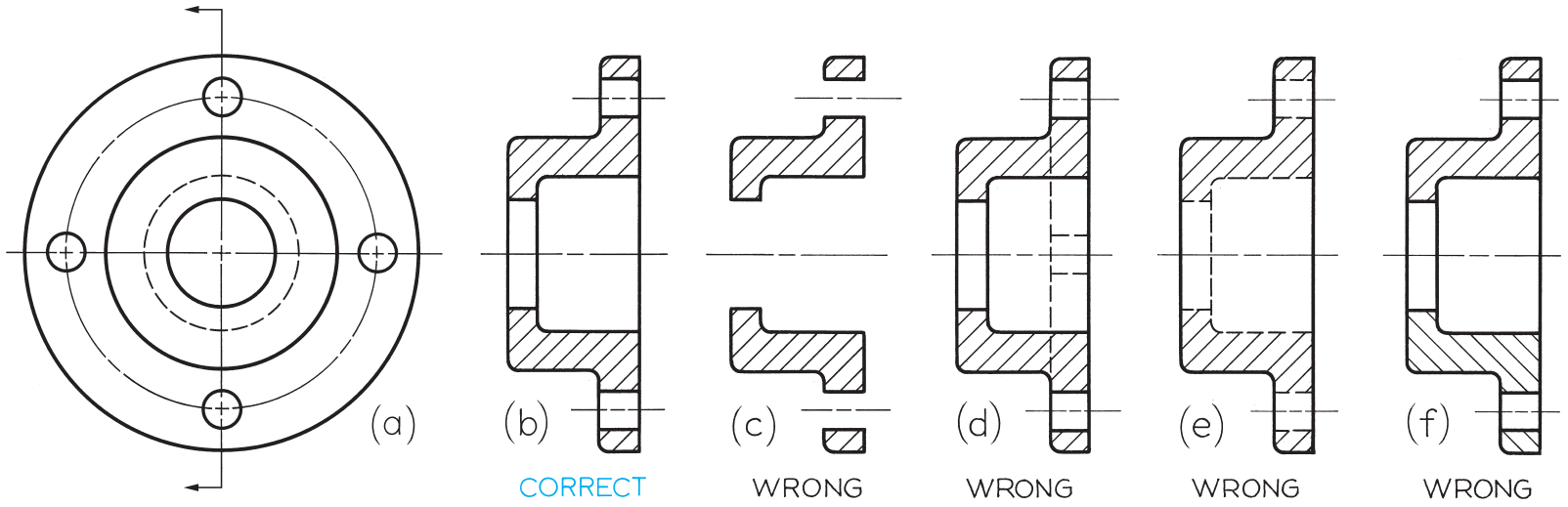


Figure 7-3

Lines in Sectioning.

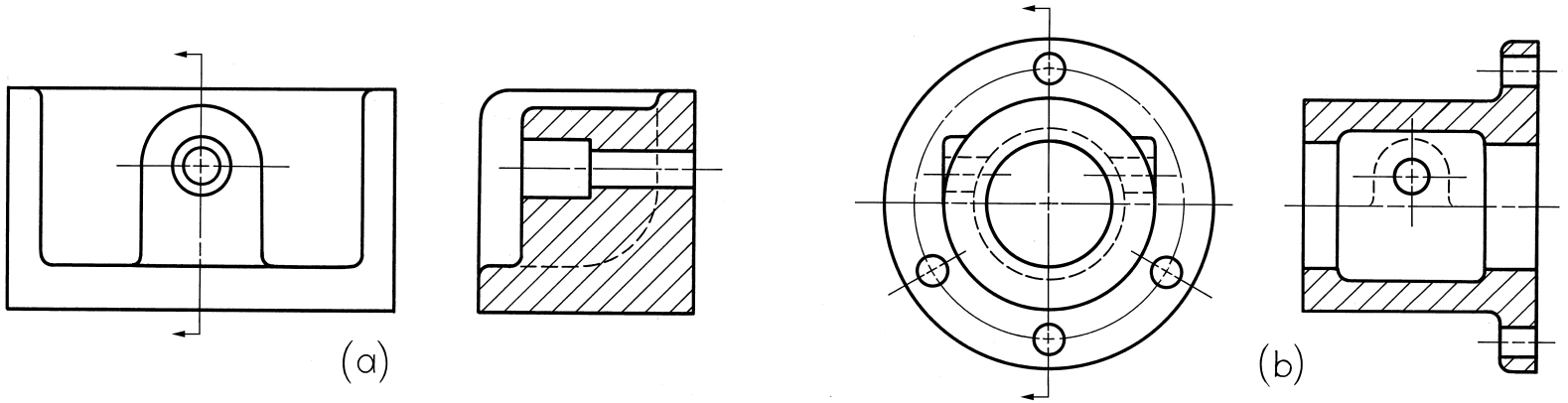


Figure 7-4

Hidden Lines in Sections.

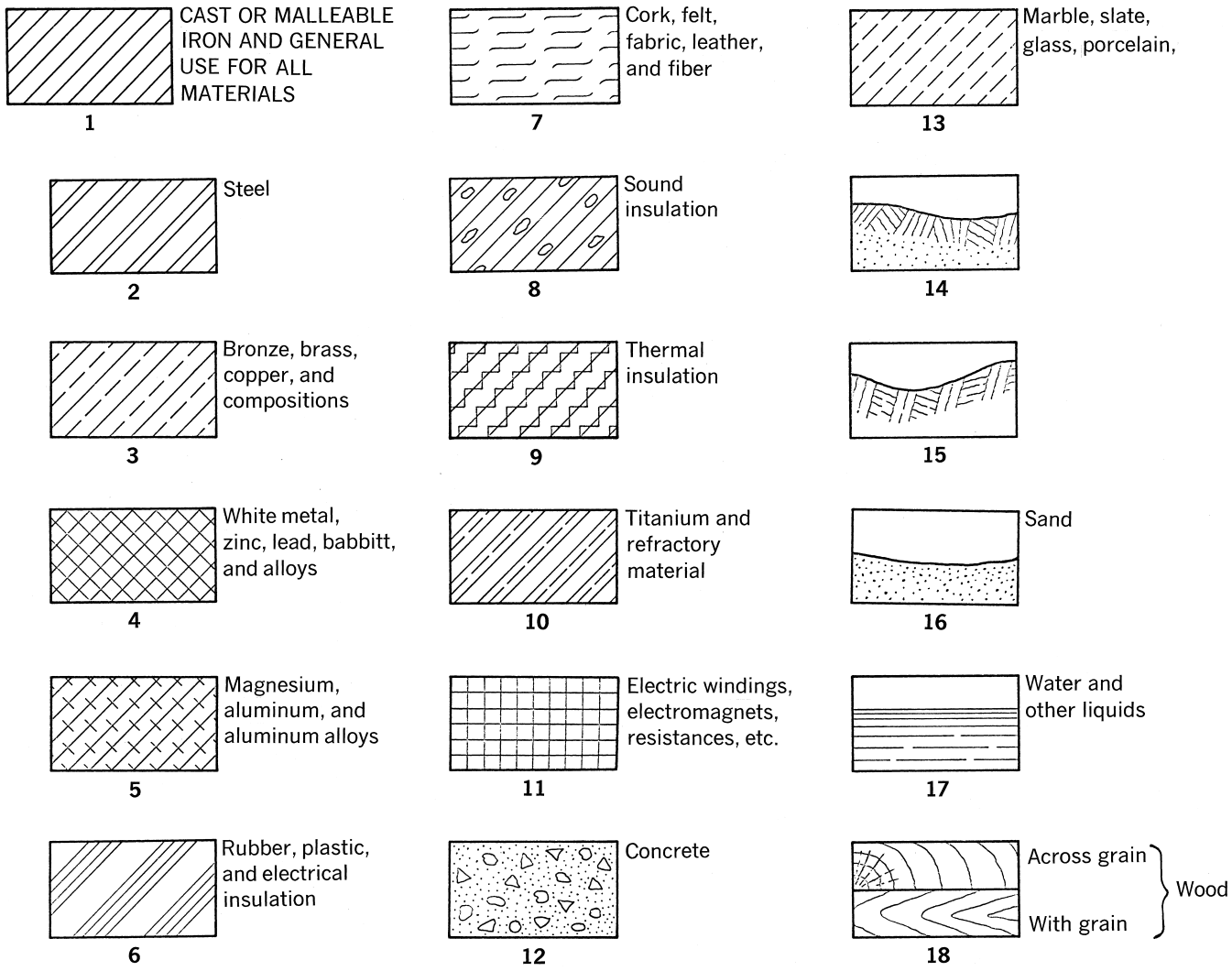


Figure 7-5

Symbols for Section Lining.

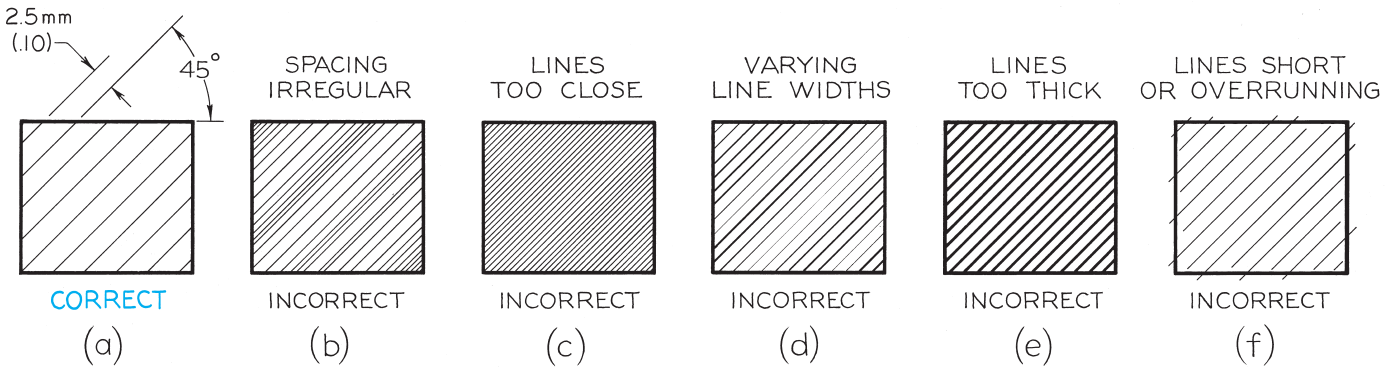


Figure 7-6

Section-Lining Technique

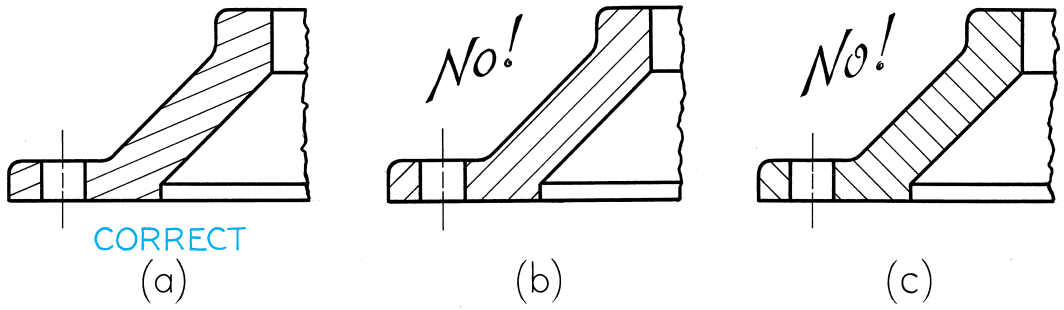


Figure 7-7

Direction of Section Lines.

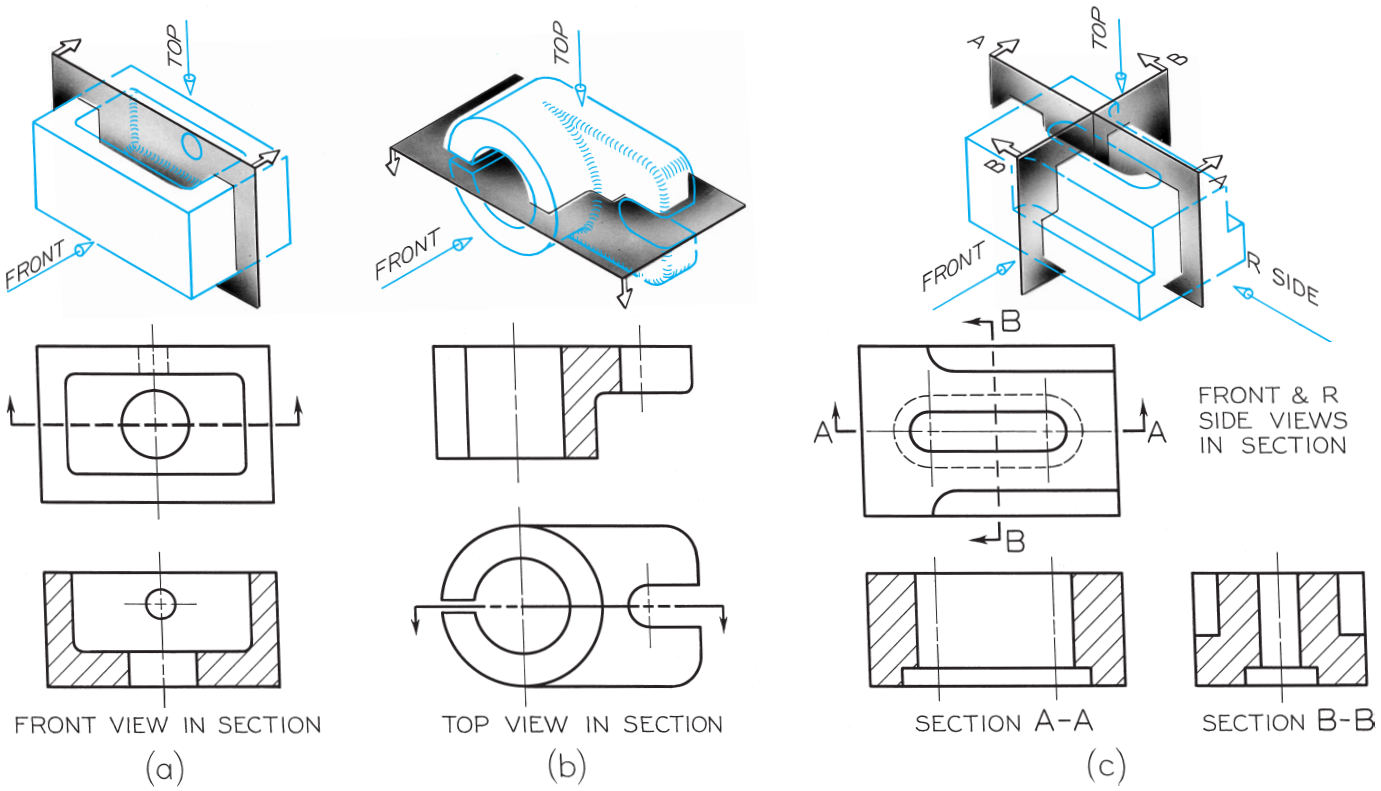


Figure 7-8

Cutting planes and Sections.

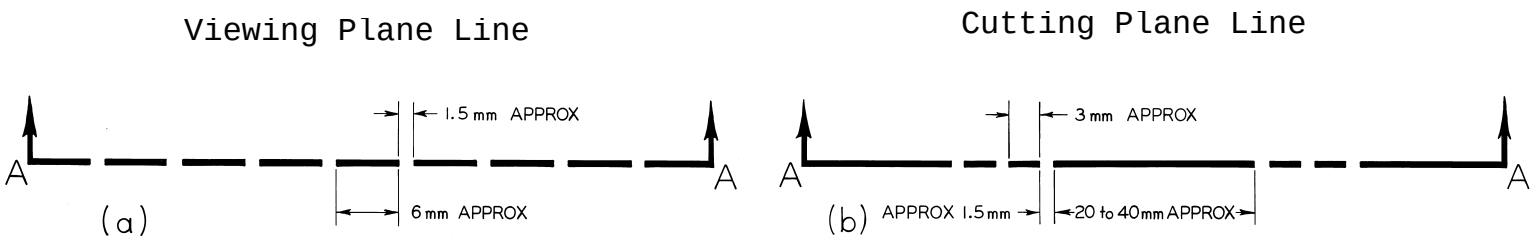


Figure 7-9

Cutting-Plane Lines (Full Size).

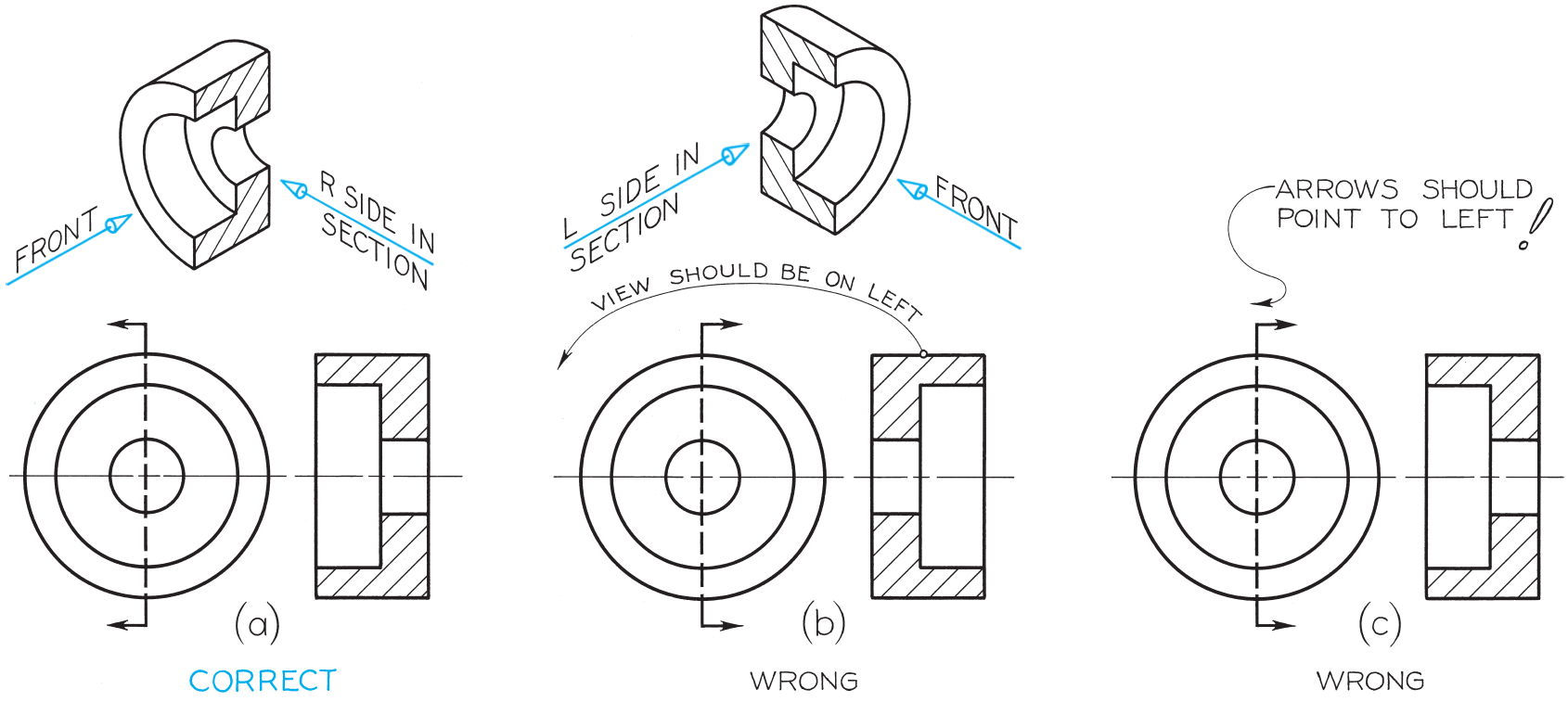


Figure 7-10

Cutting Planes and Sections.

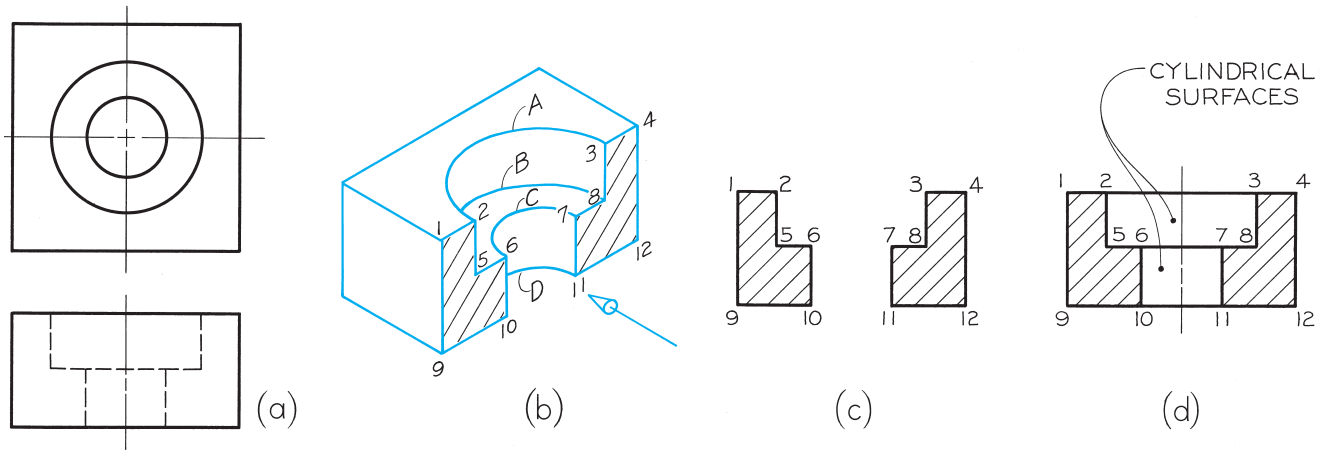


Figure 7-11

Visualizing a Section.

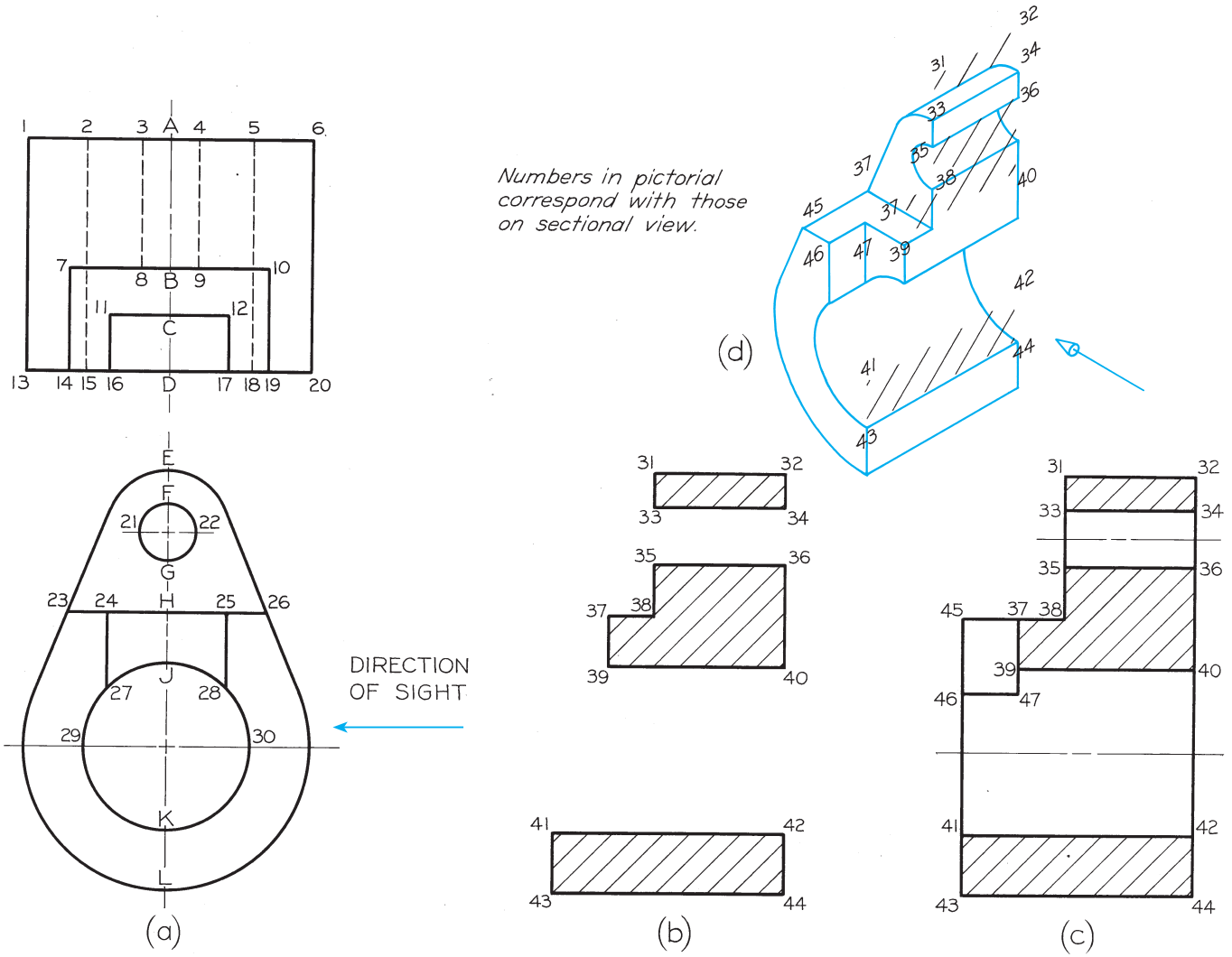
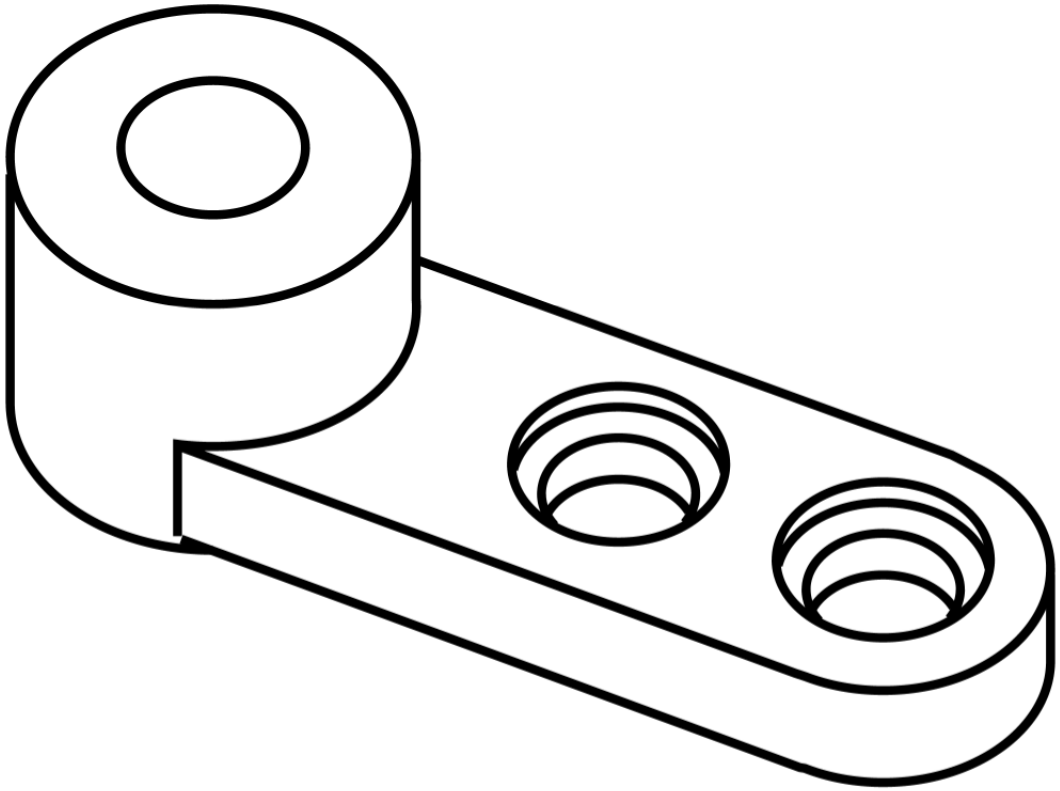


Figure 7-12

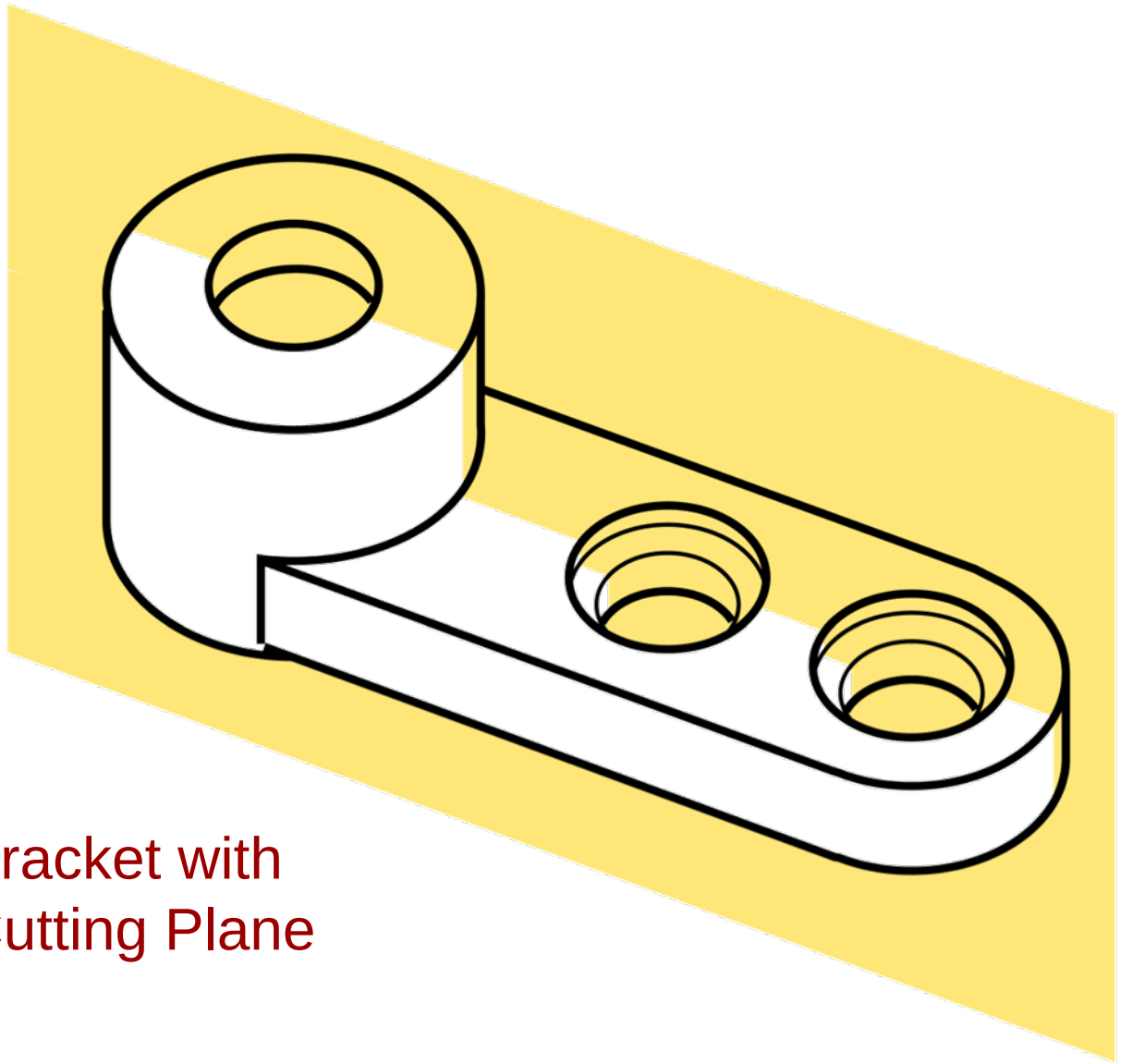
Drawing a Full Section.

Full Section



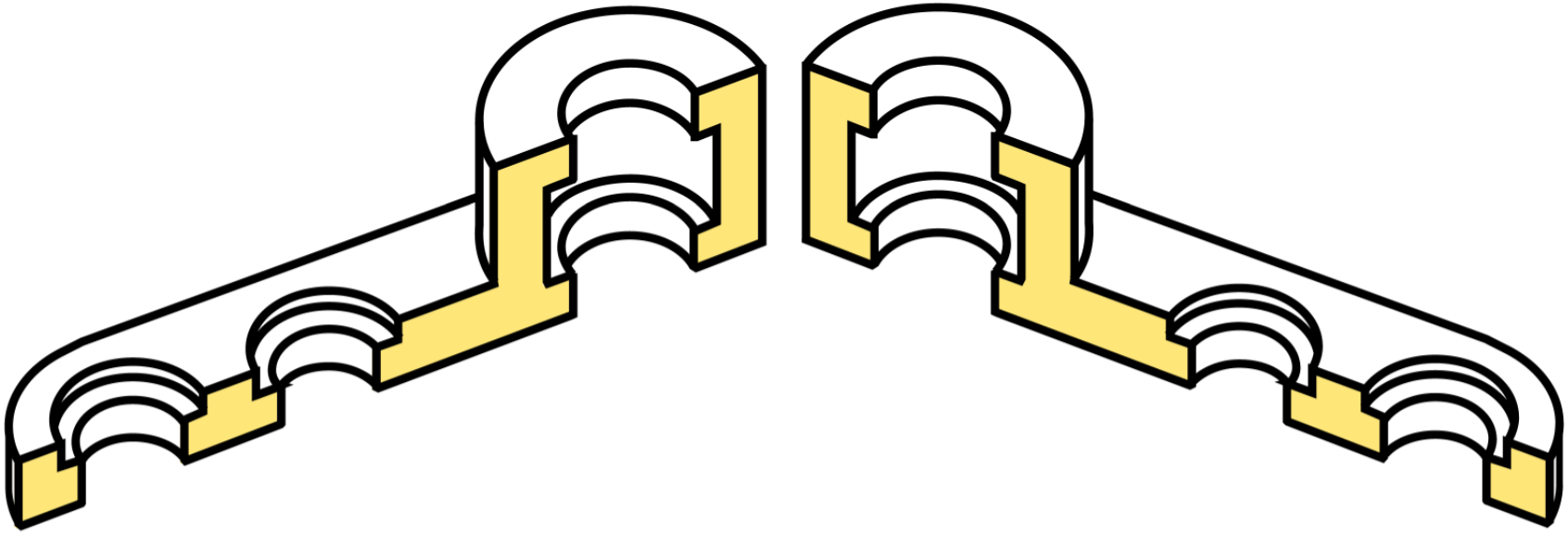
Bracket

Full Section



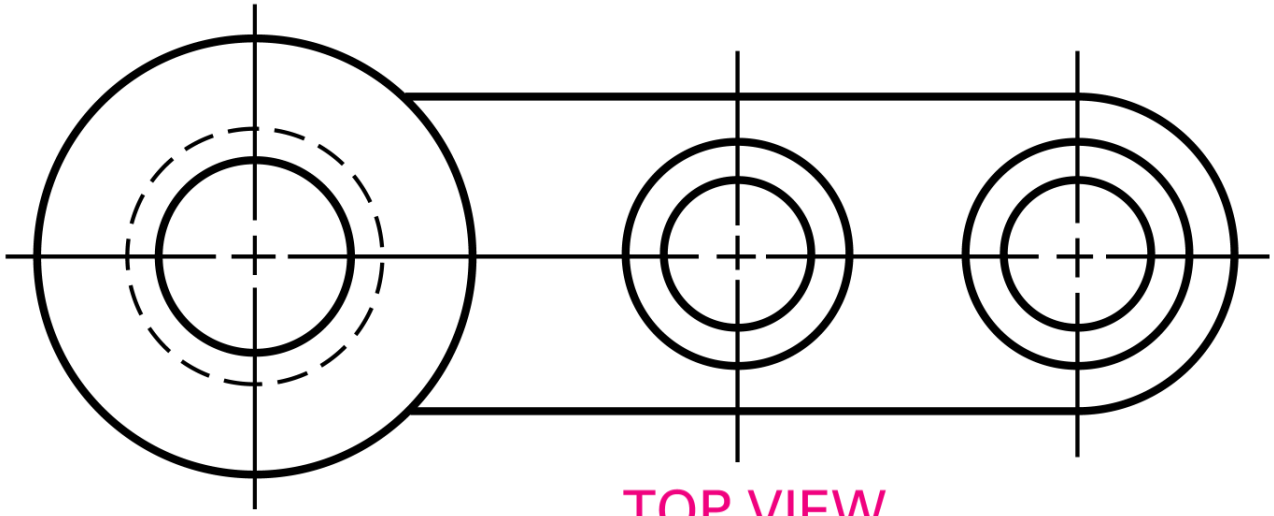
Bracket with
Cutting Plane

Full Section

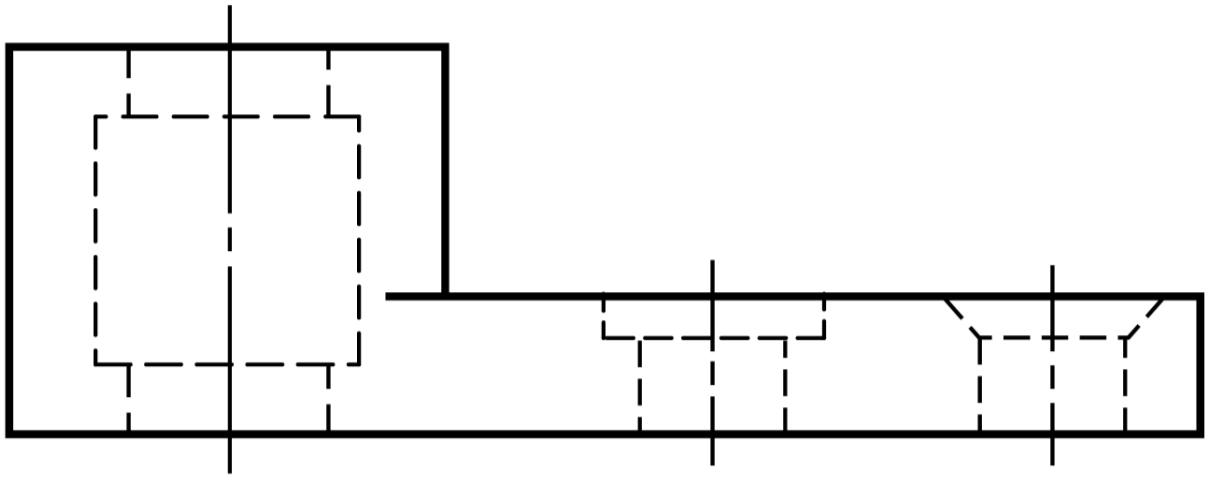


Front of Bracket Moved Away to
Expose Front Surface

Full Section (Multiview Drawing)

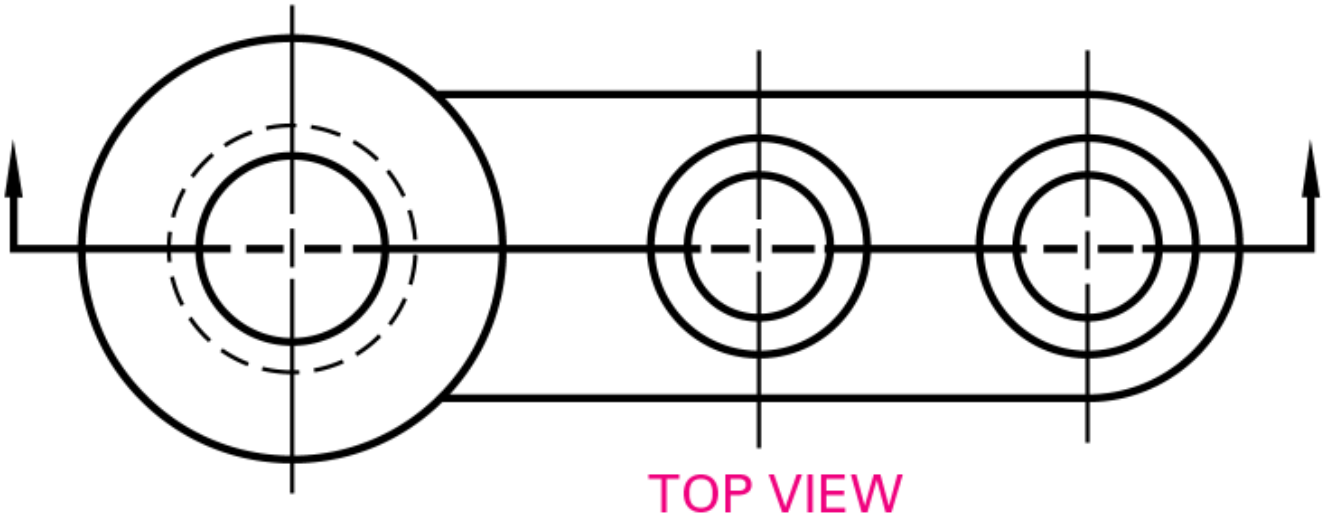


TOP VIEW

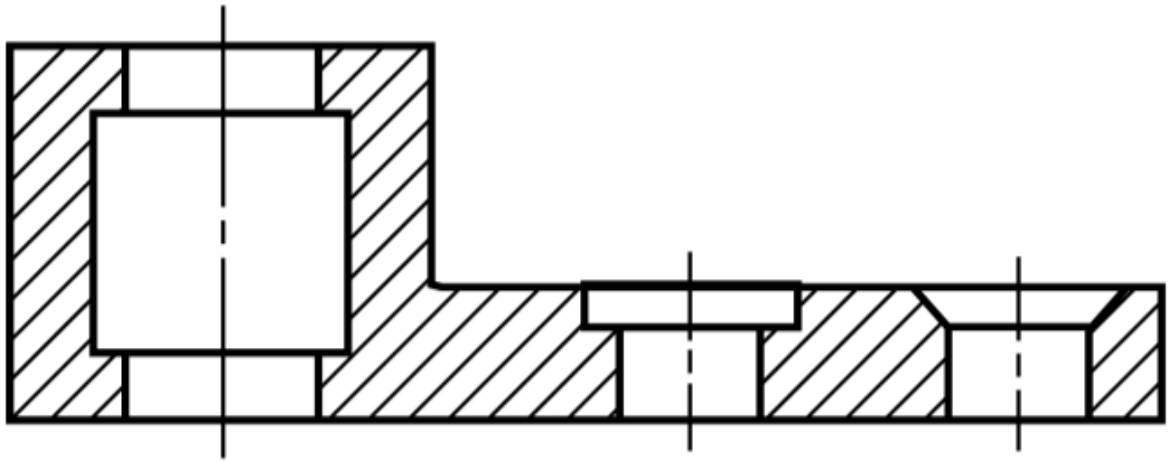


FRONT VIEW

Full Section



TOP VIEW



FRONT FULL-SECTIONAL VIEW

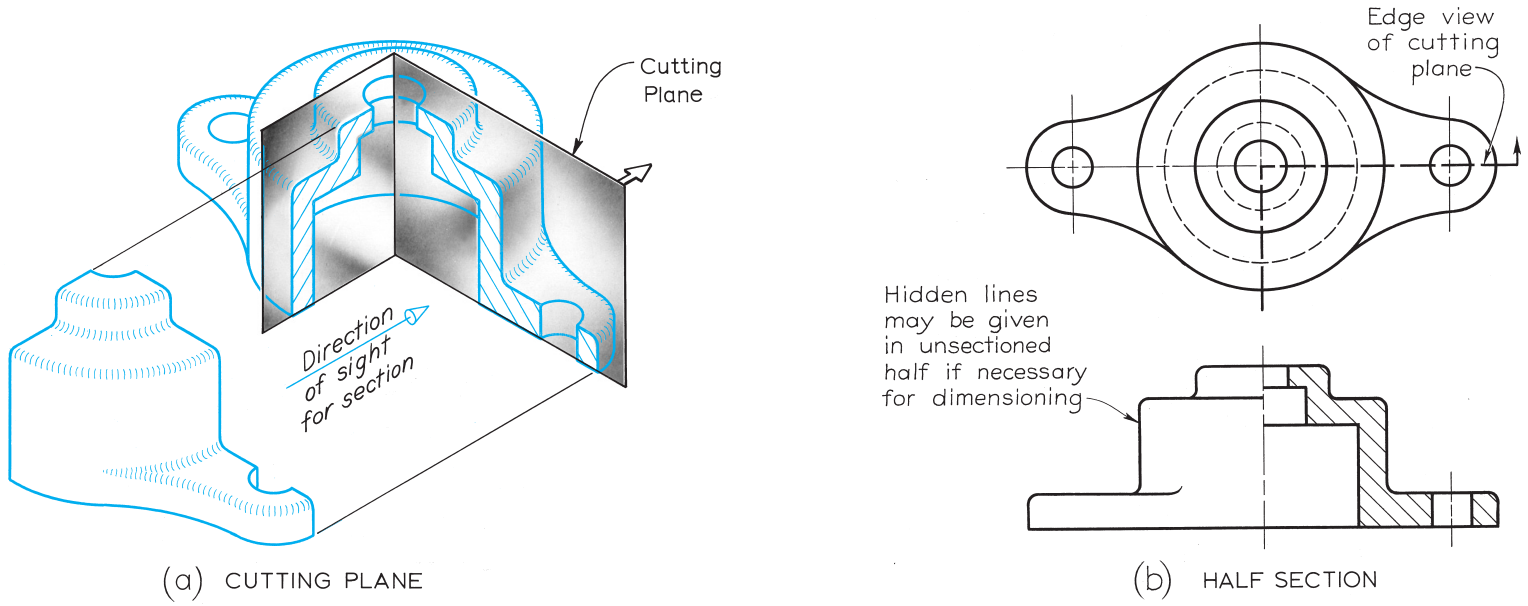
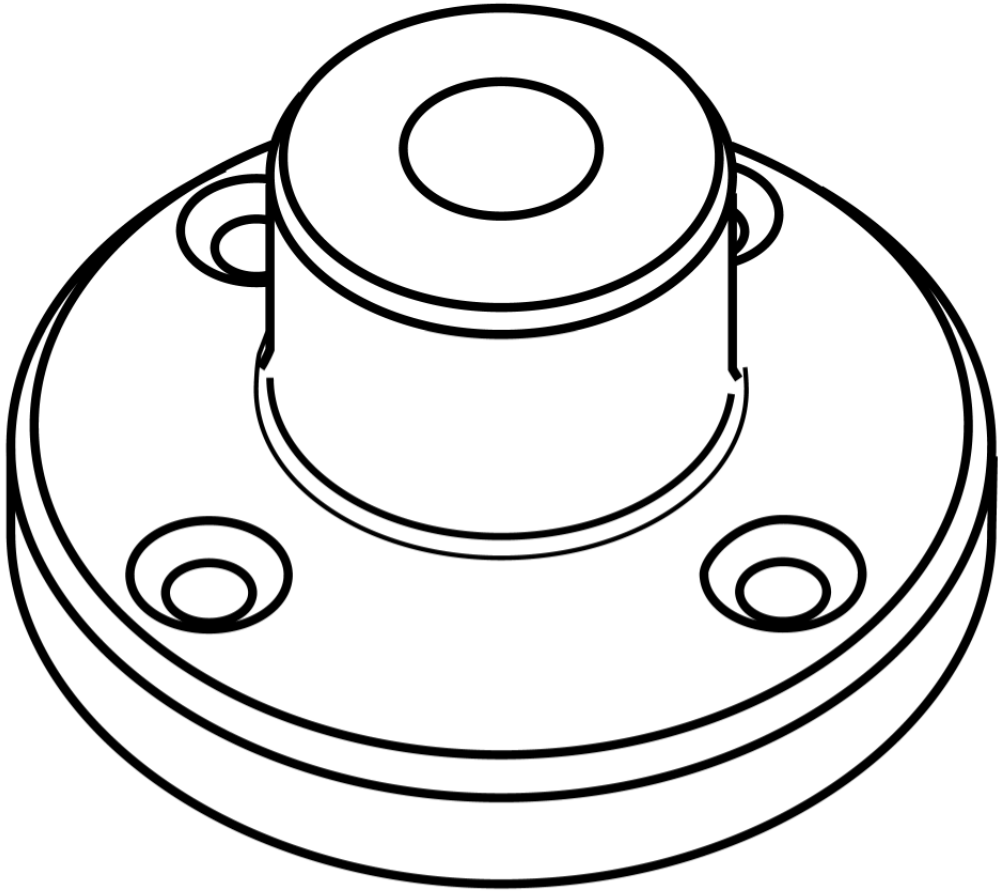


Figure 7-13

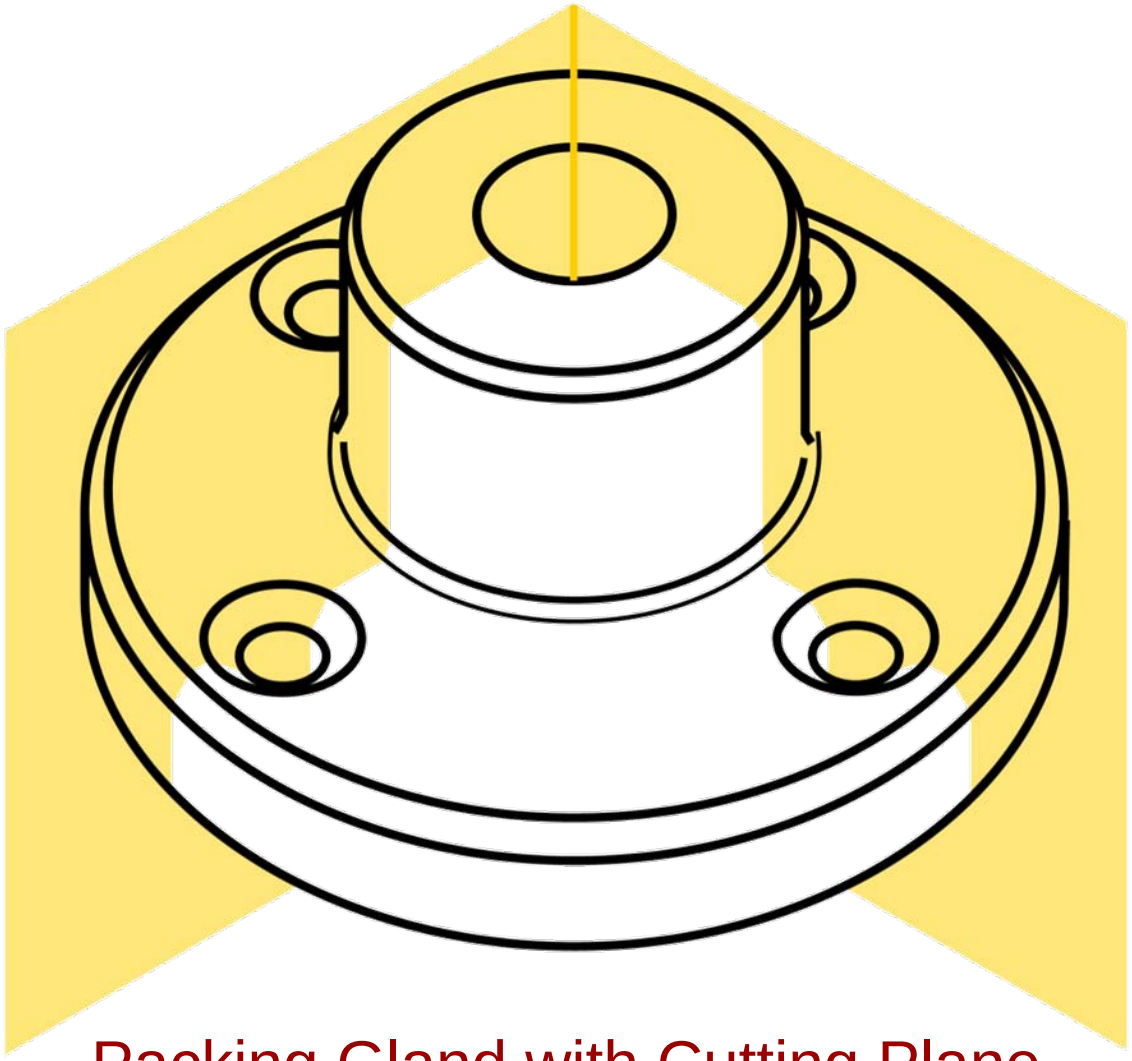
Half Section.

Half Section



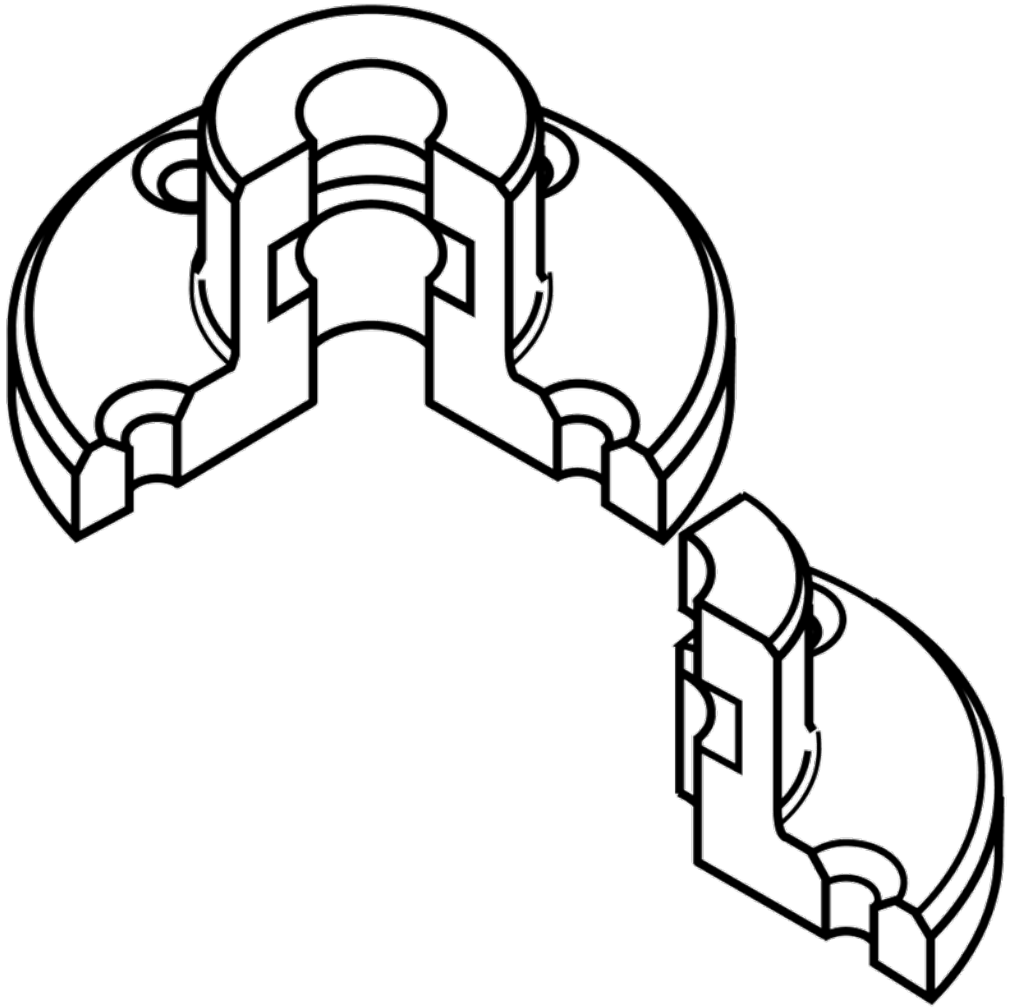
Packing Gland

Half Section



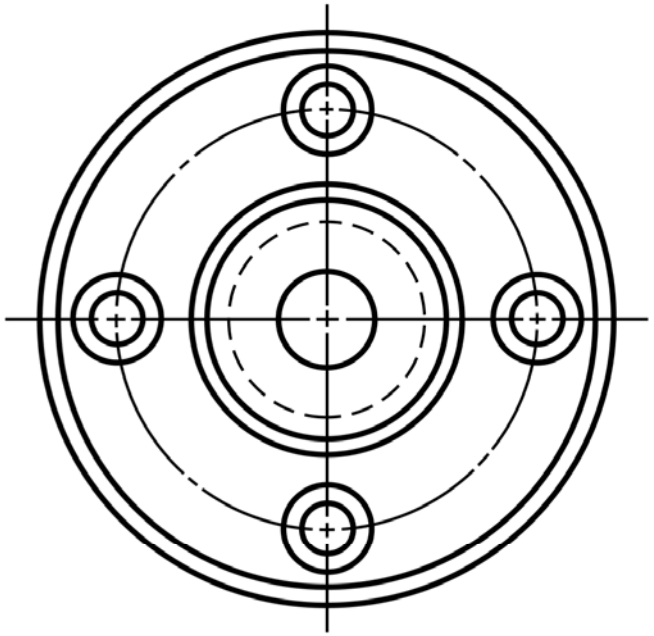
Packing Gland with Cutting Plane

Half Section

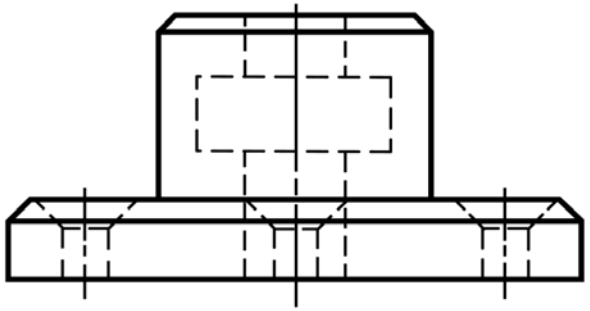


Front of Packing Gland Moved Away to Expose Front Surface

Half Section (Multiview Drawing)

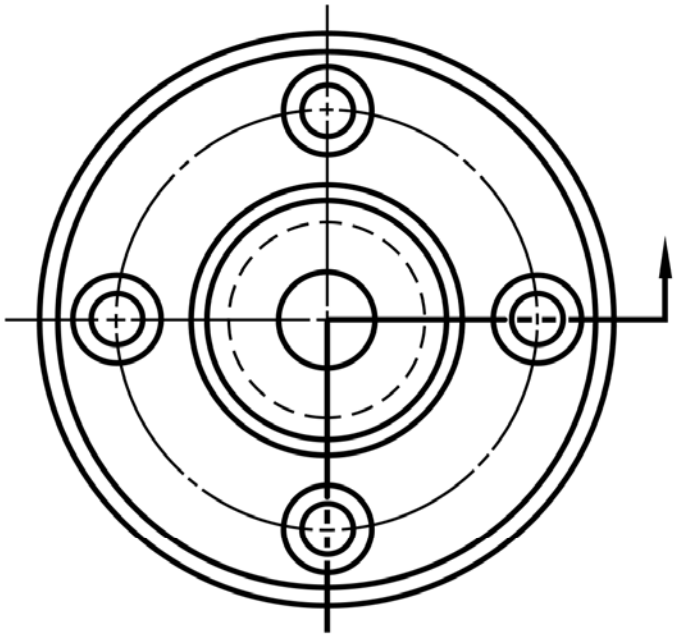


TOP VIEW

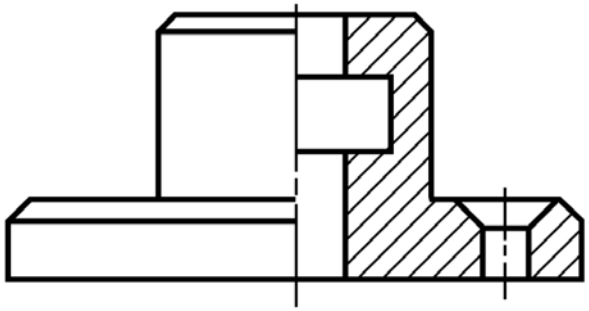


FRONT VIEW

Half Section



TOP VIEW



FRONT VIEW

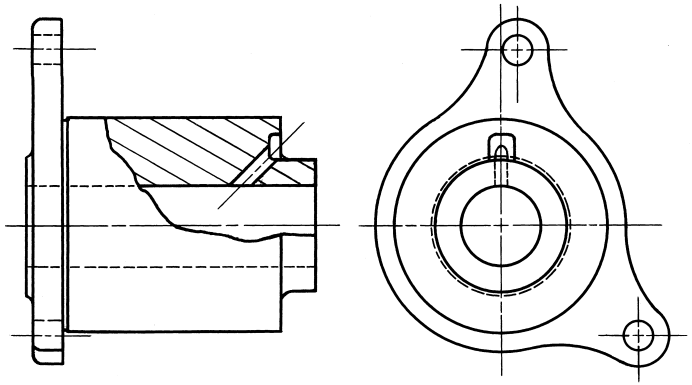
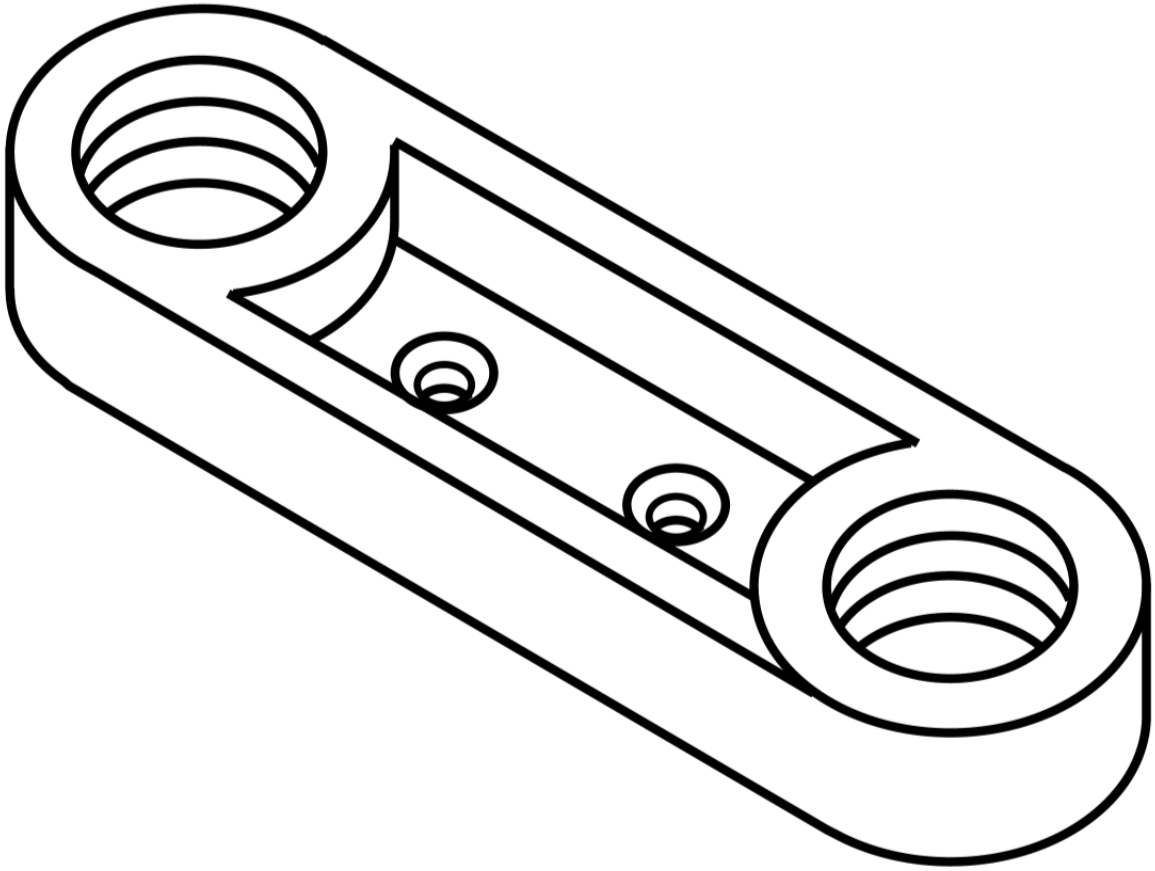


Figure 7-14

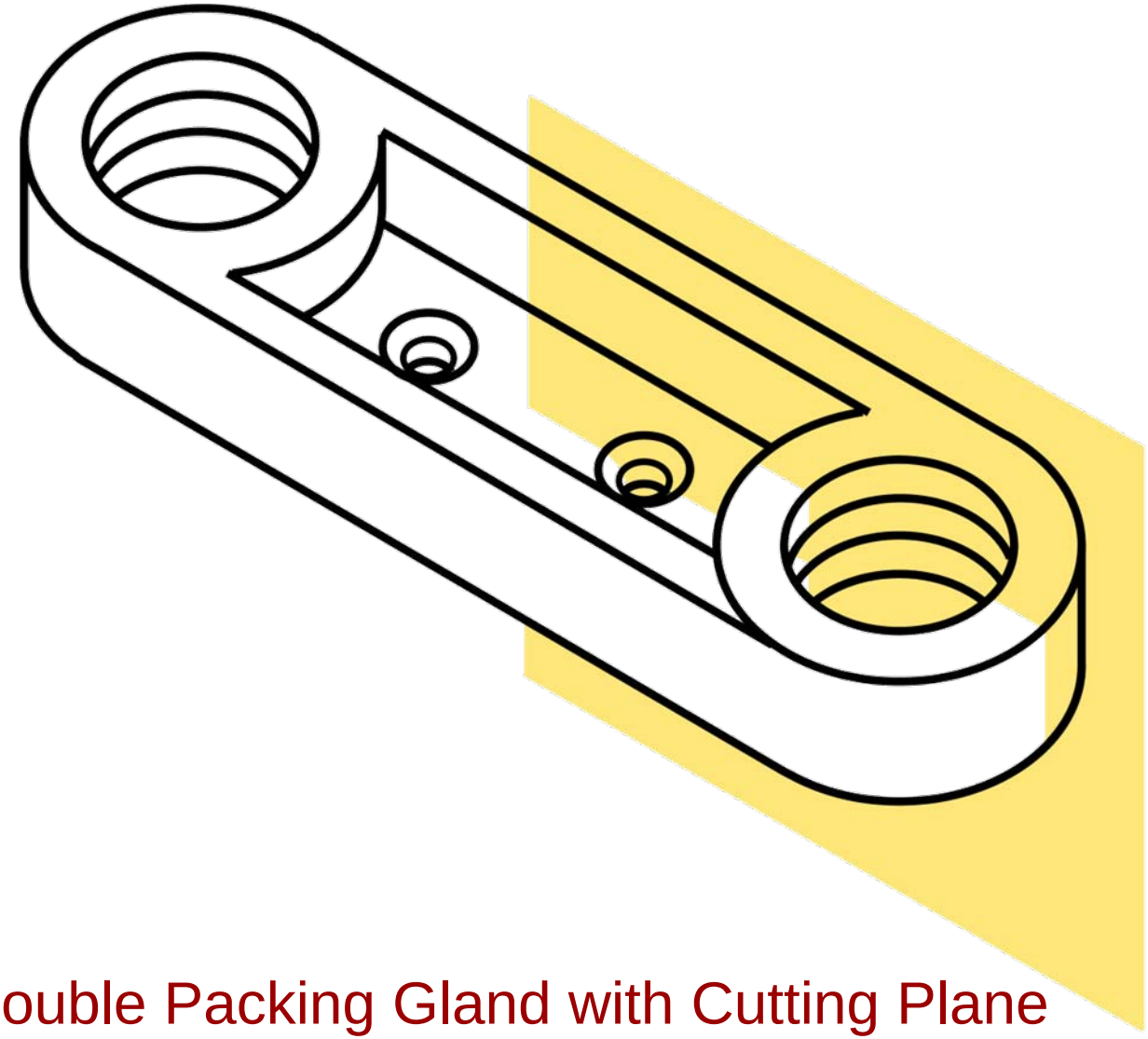
Broken-Out Section.

Broken-Out Section



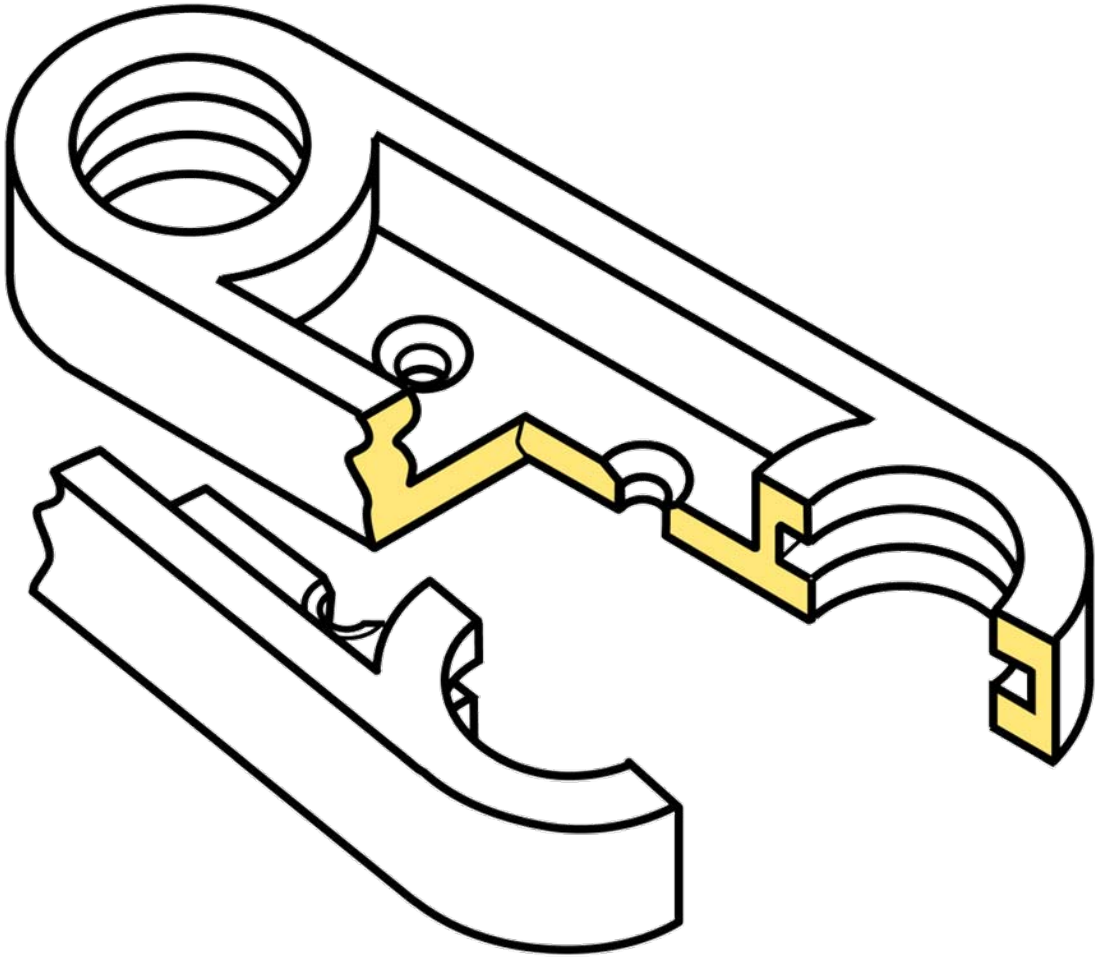
Double Packing Gland

Broken-Out Section



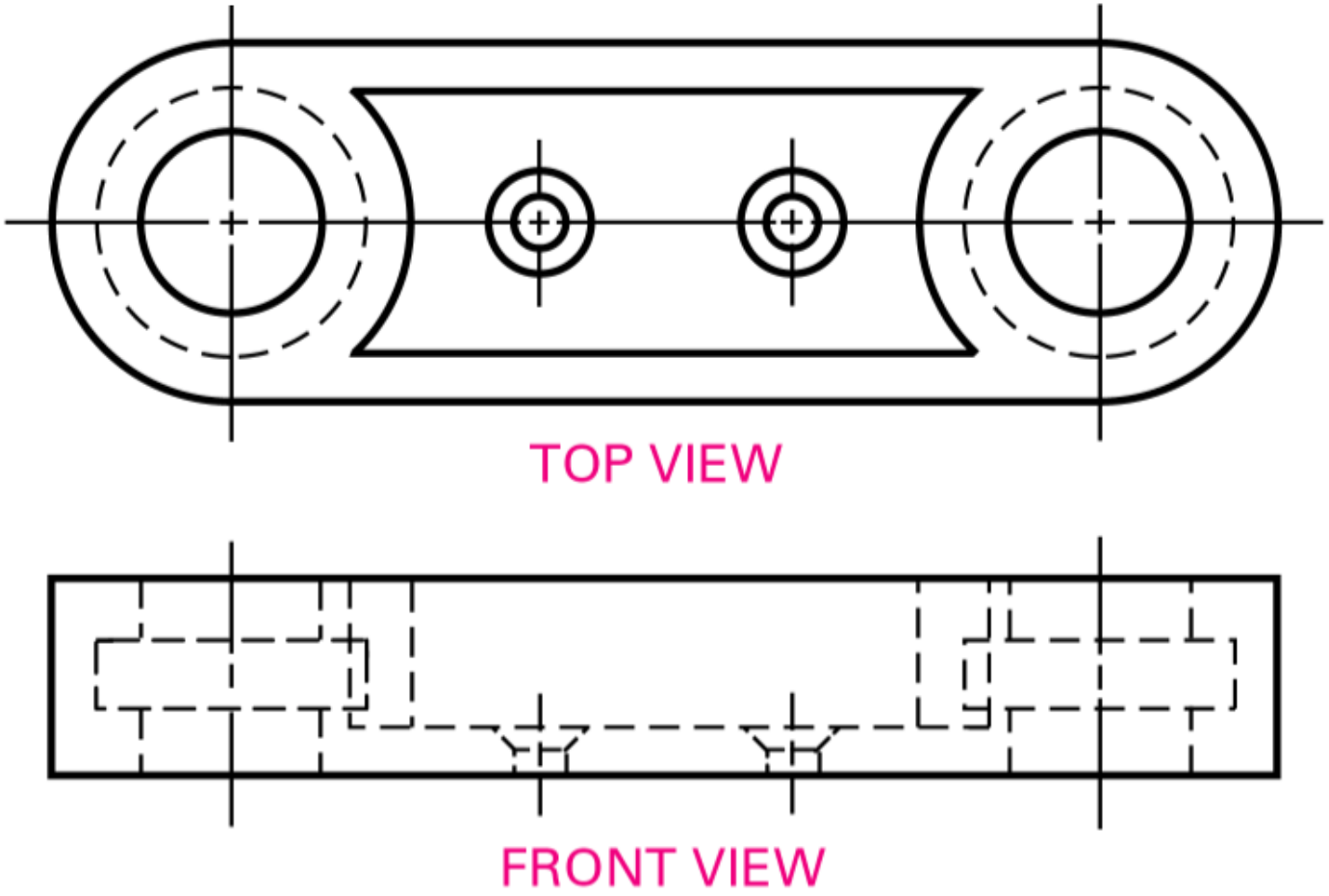
Double Packing Gland with Cutting Plane

Broken-Out Section

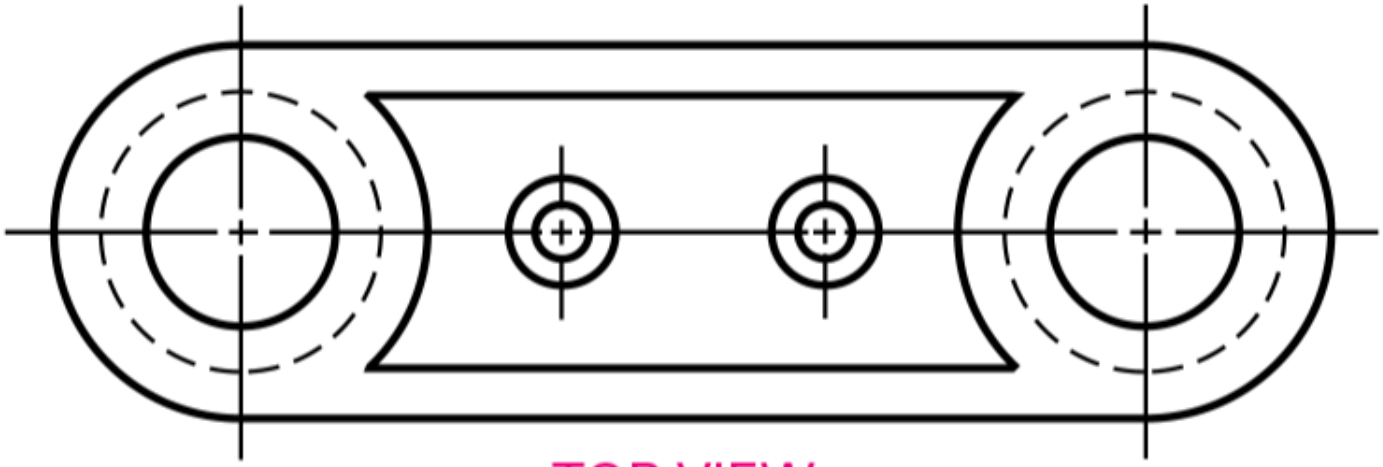


Front of Double Packing Gland Moved Away to Expose Cut Surface

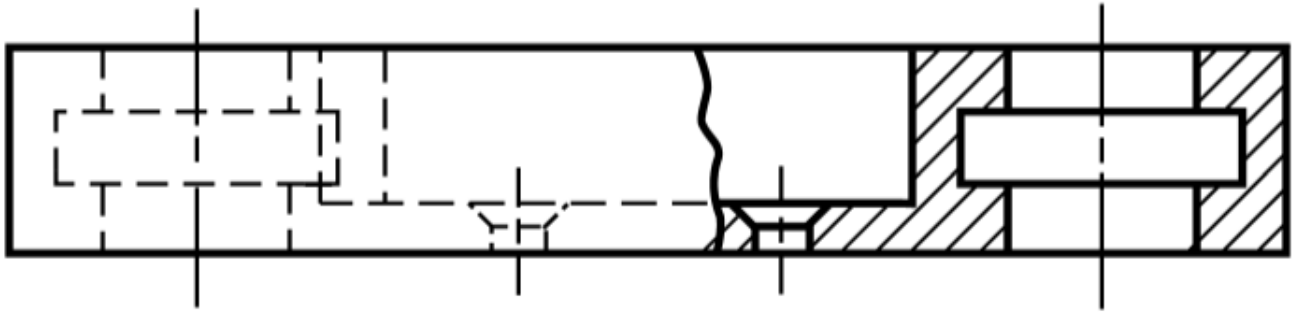
Broken-Out Section (Multiview Drawing)



Broken-Out Section



TOP VIEW



FRONT VIEW WITH BROKEN-OUT SECTION

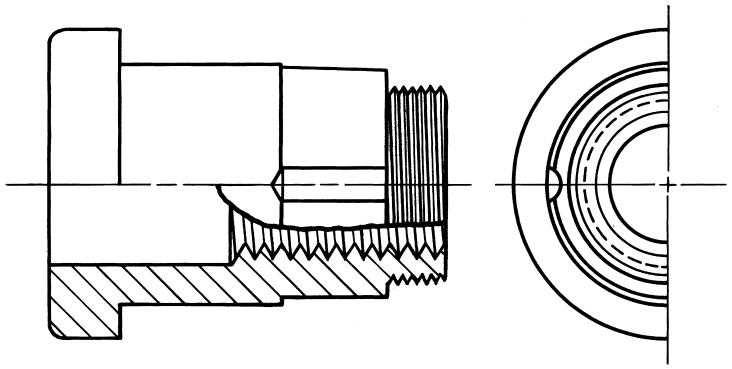


Figure 7-15

Break Around Keyway.

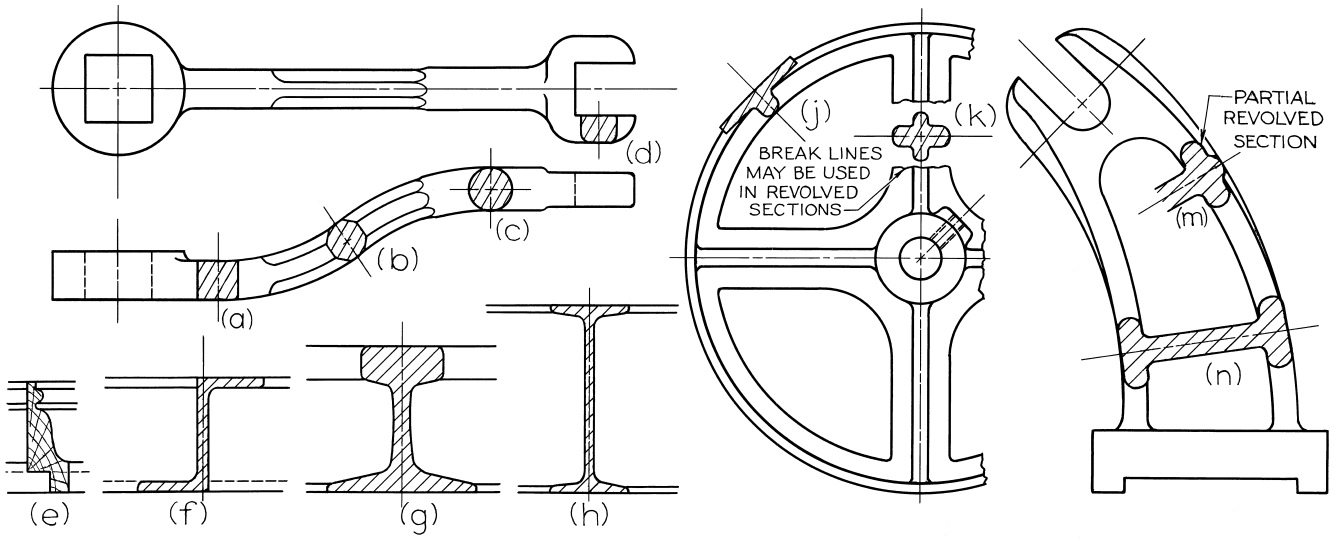
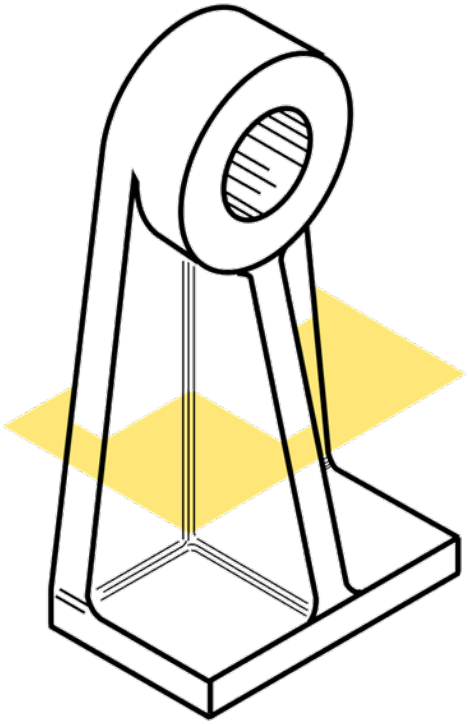
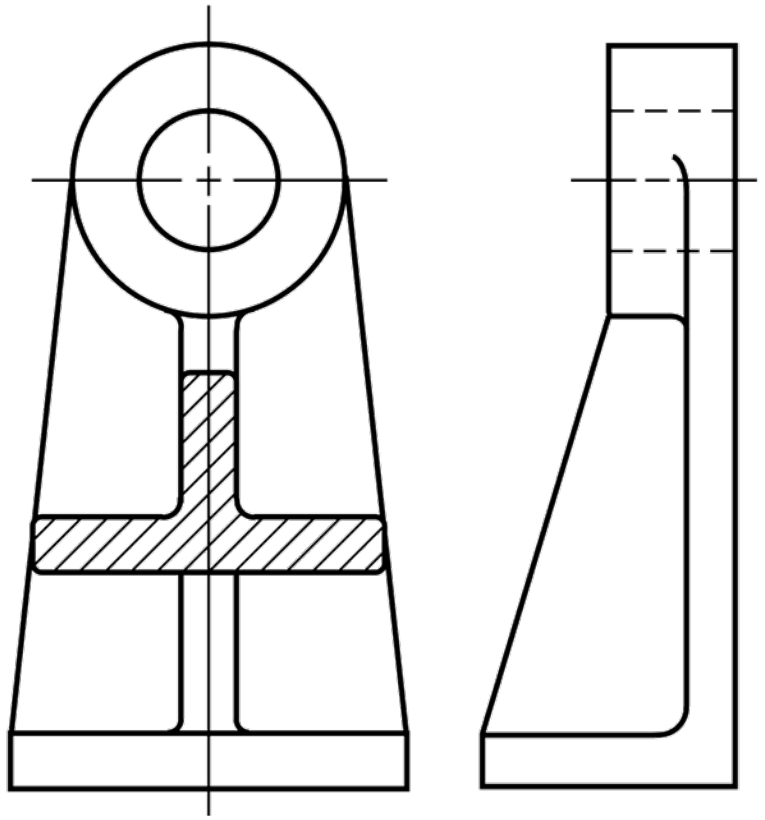


Figure 7-16

Revolved Sections.

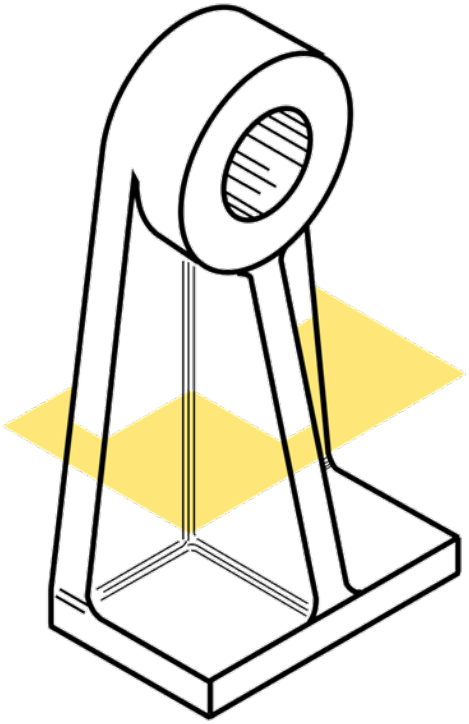
Revolved Section

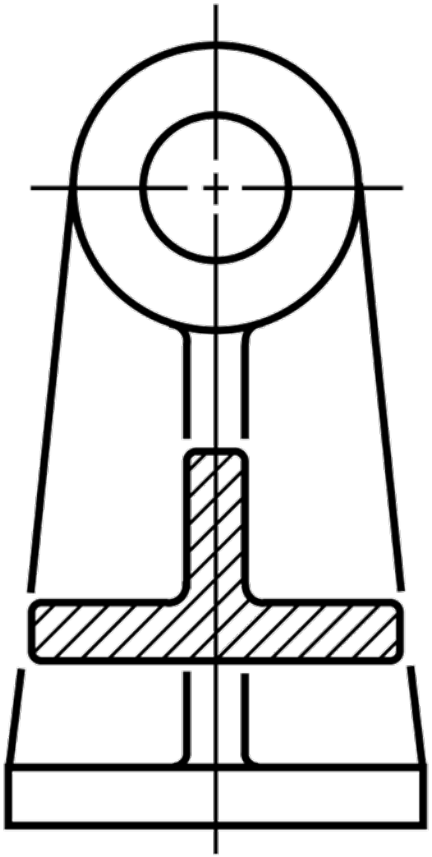


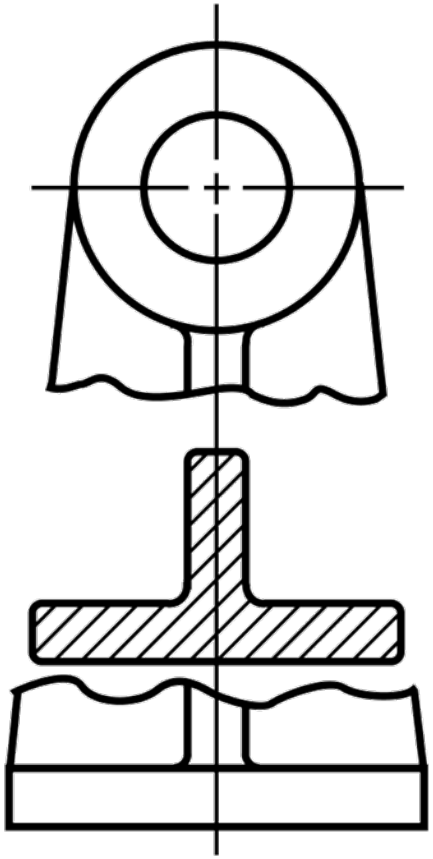


Most Common Method

Revolved Section







Other Acceptable Methods

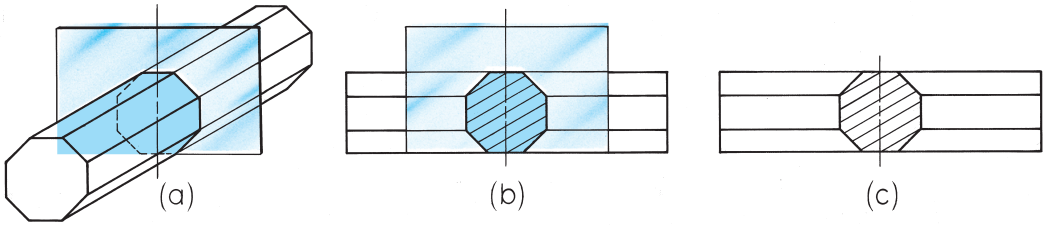


Figure 7-17

Use of the Cutting Plane in Revolved Sections.

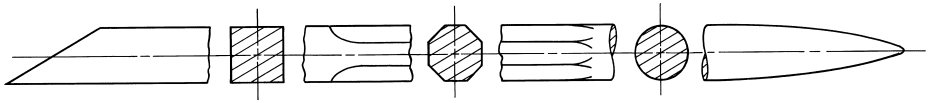


Figure 7-18

Conventional Breaks Used with Revolved Sections.

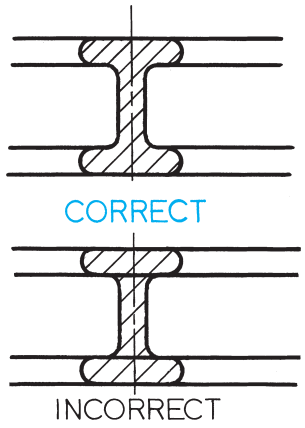


Figure 7-19

A Common Error in Drawing Revolved Sections.

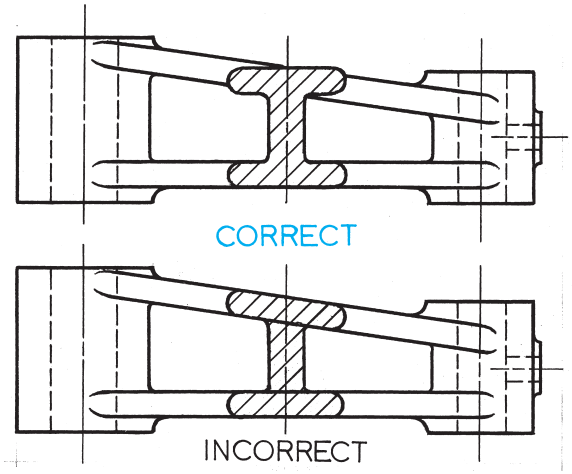


Figure 7-20

A Common Error in Drawing Revolved Sections.

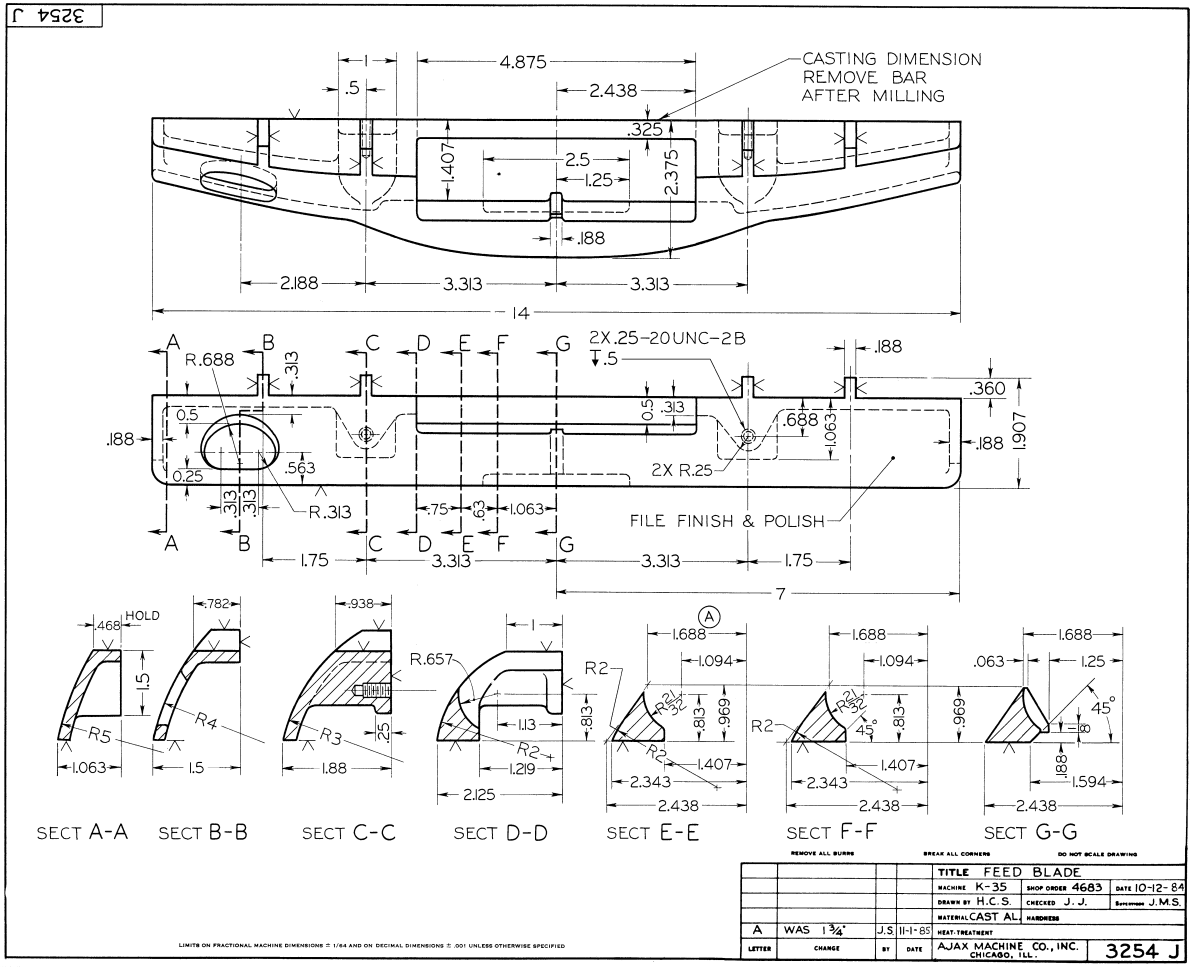


Figure 7-21

Removed Sections.

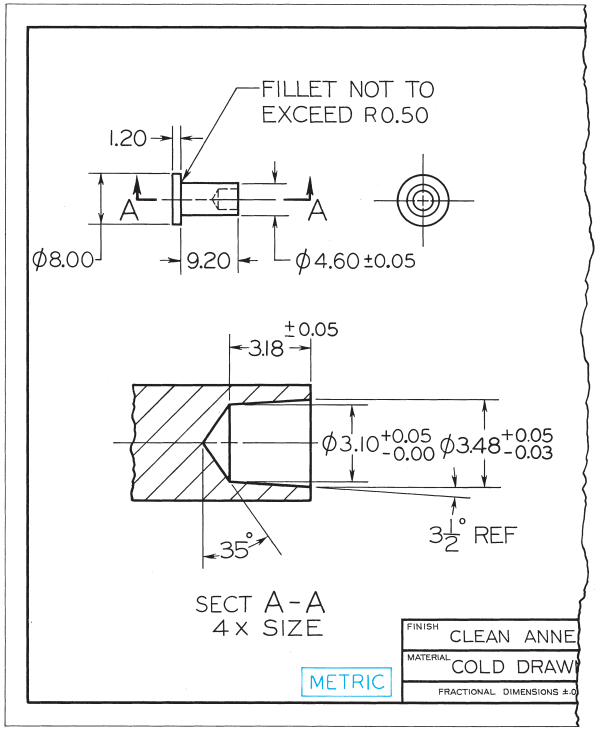


Figure 7-22

Removed Section.

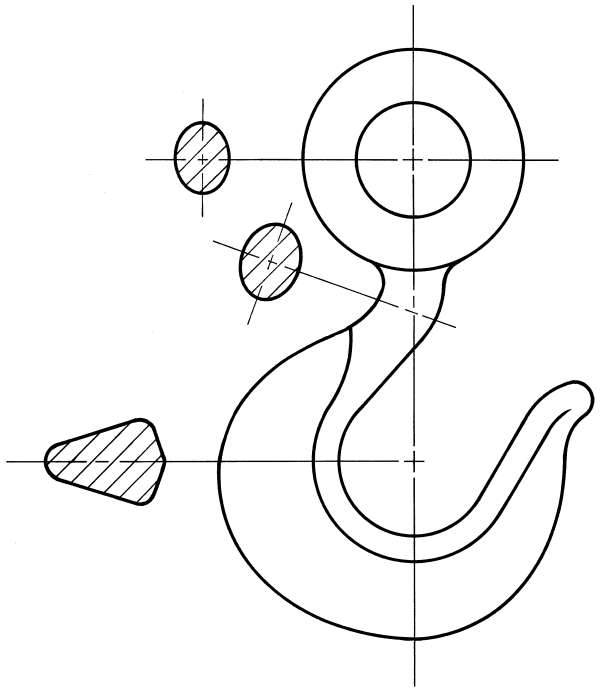
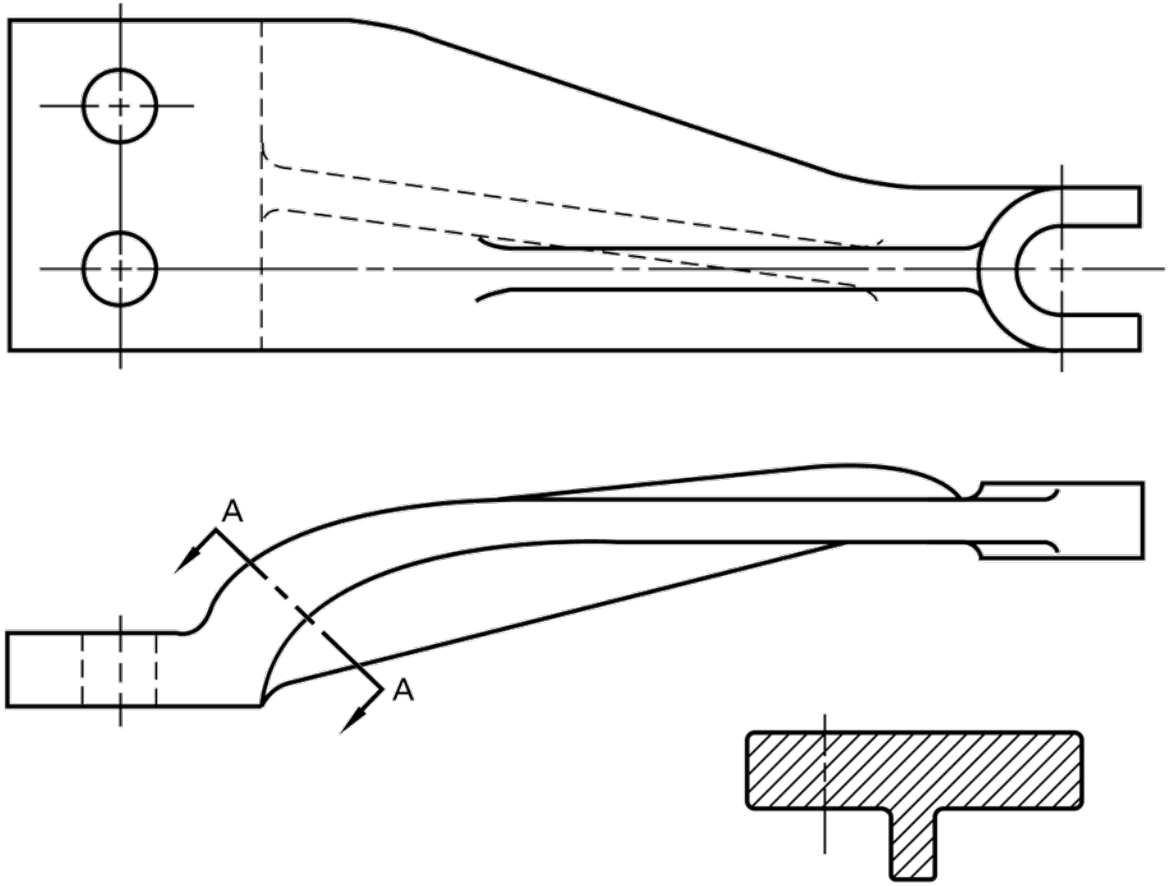


Figure 7-23

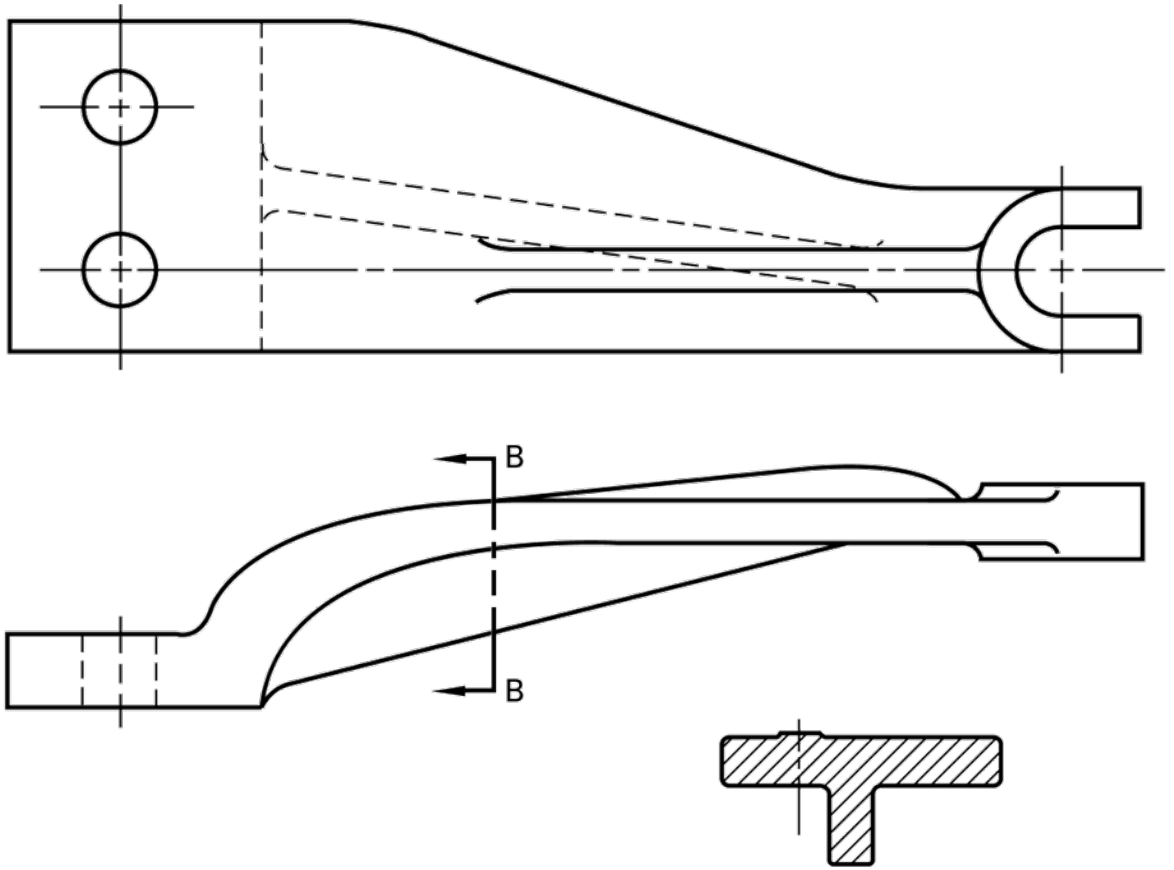
Removed Sections.

Removed Sections



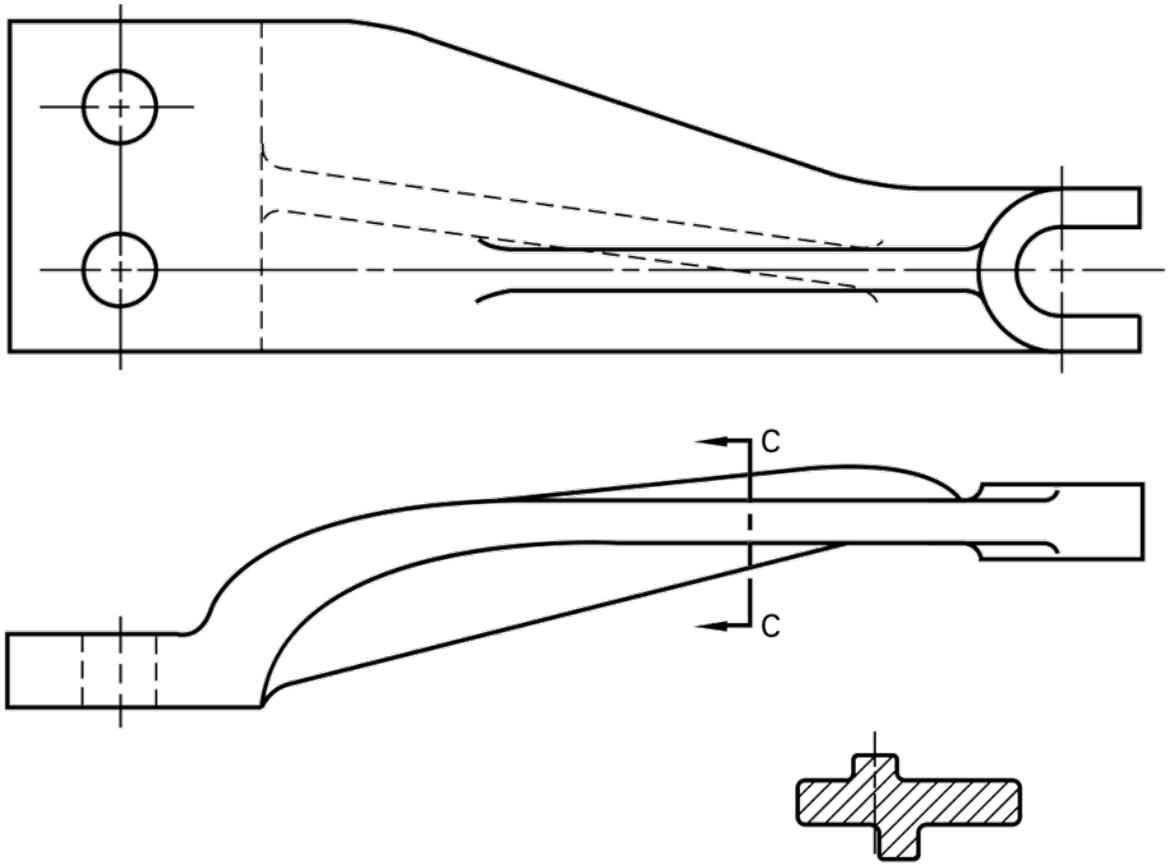
Section A-A

Removed Sections



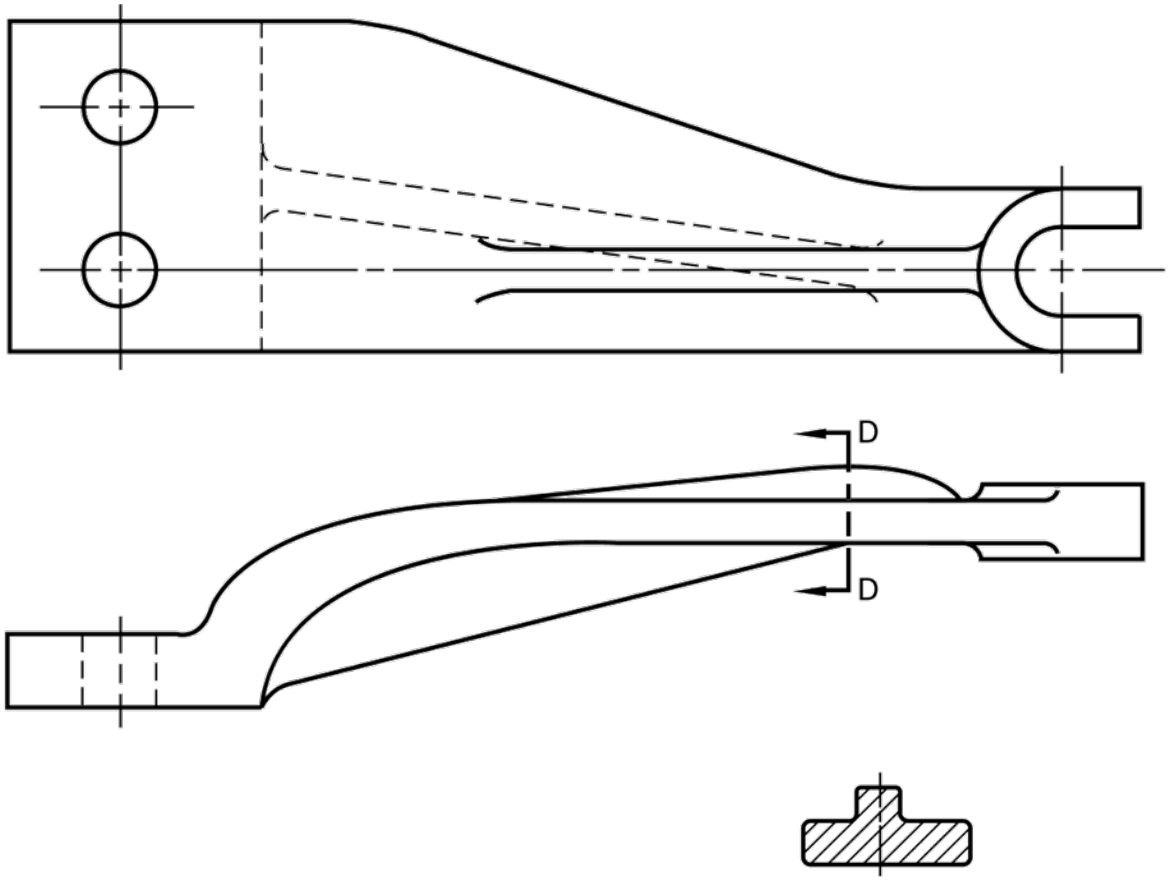
Section B-B

Removed Sections



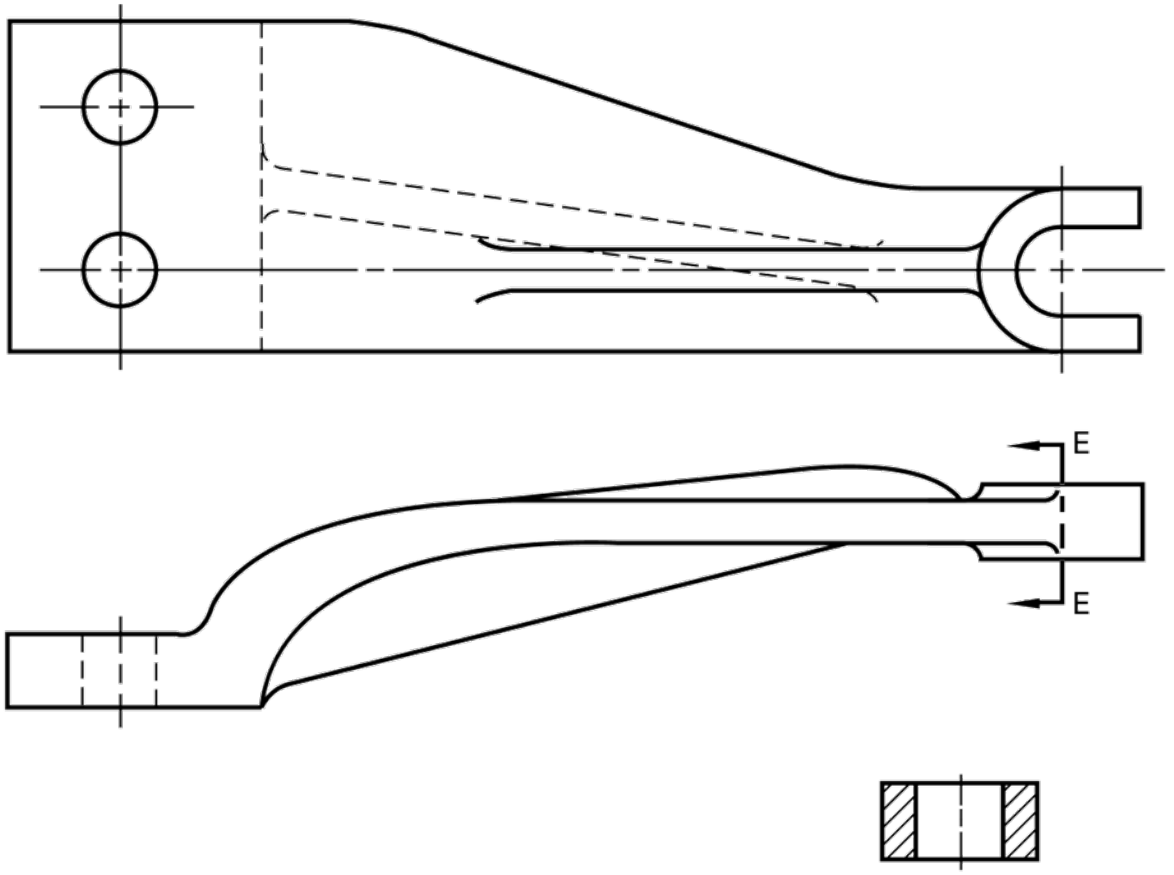
Section C-C

Removed Sections



Section D-D

Removed Sections



Section E-E

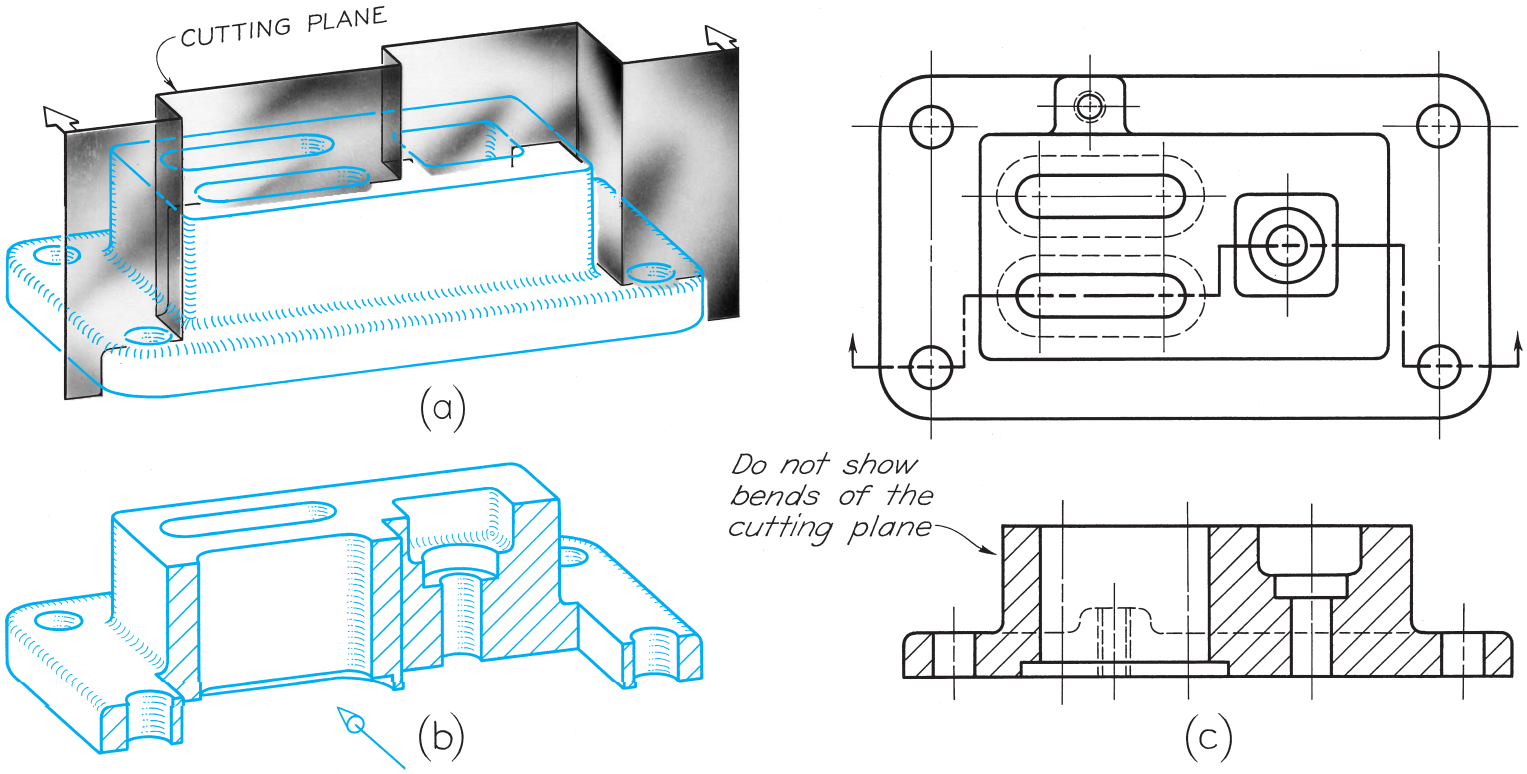
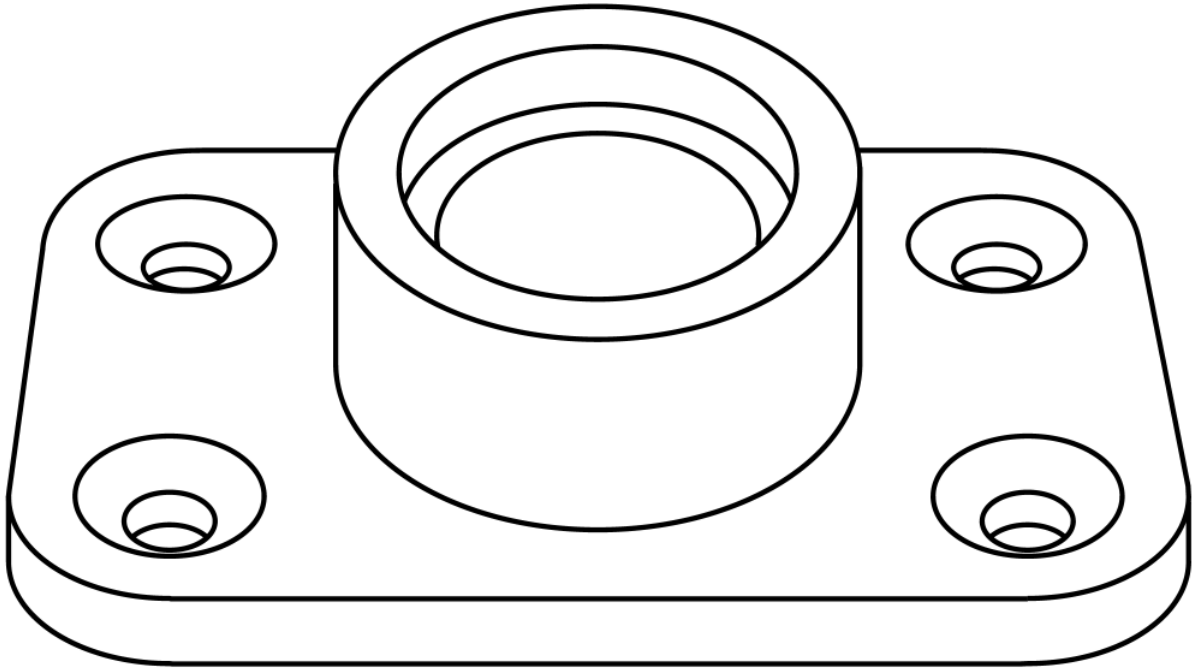


Figure 7-24

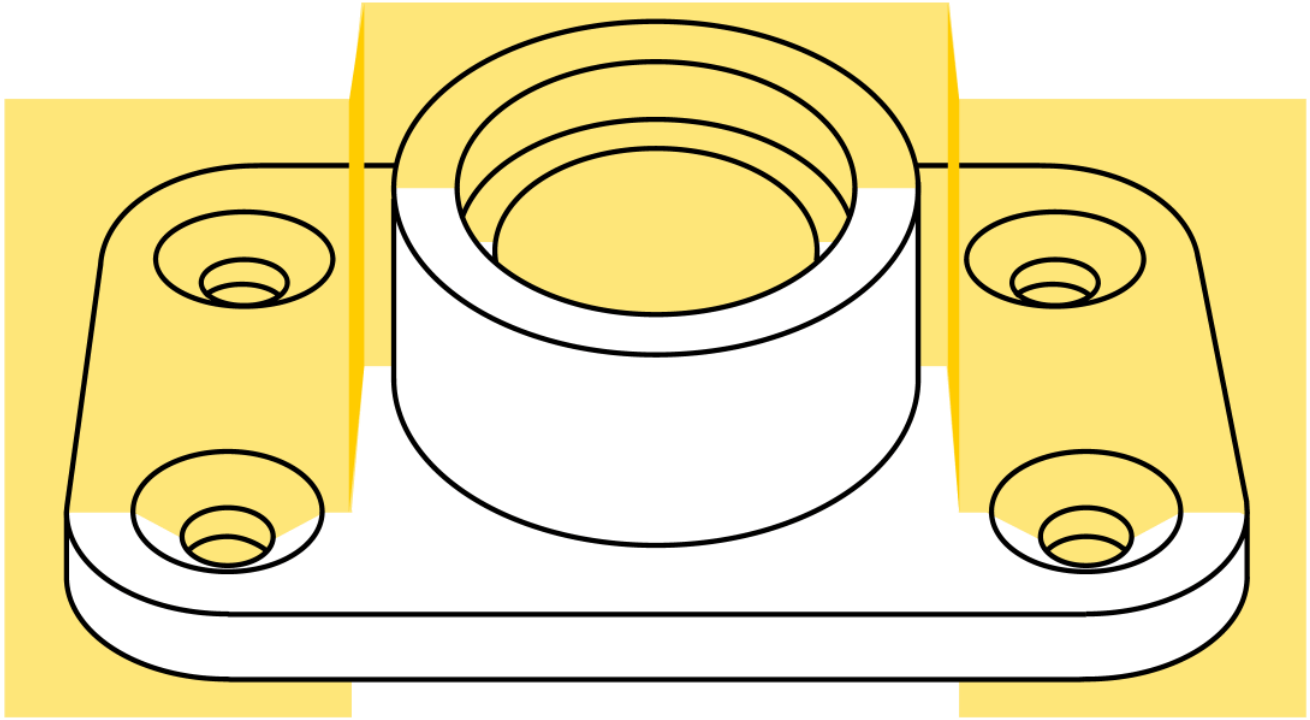
Offset Section.

Offset Section



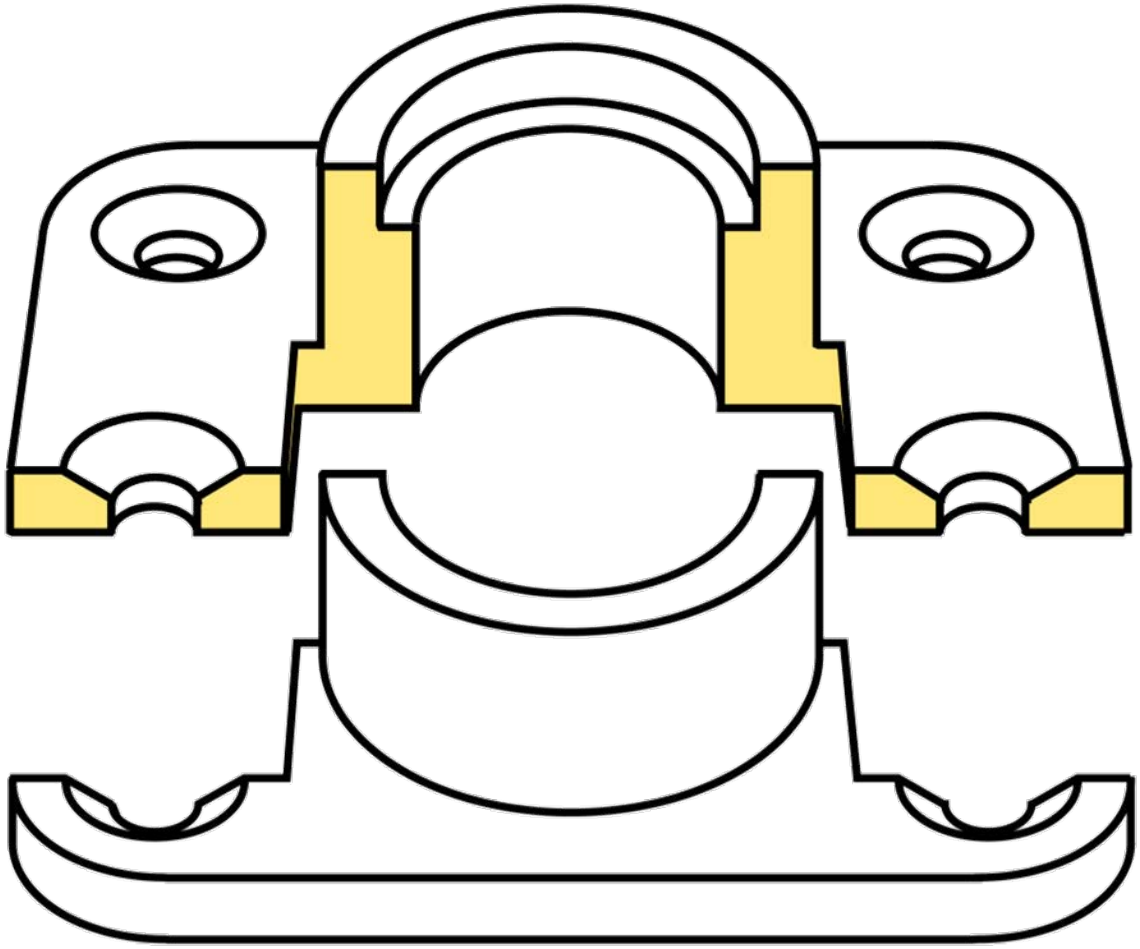
Bearing Flange

Offset Section



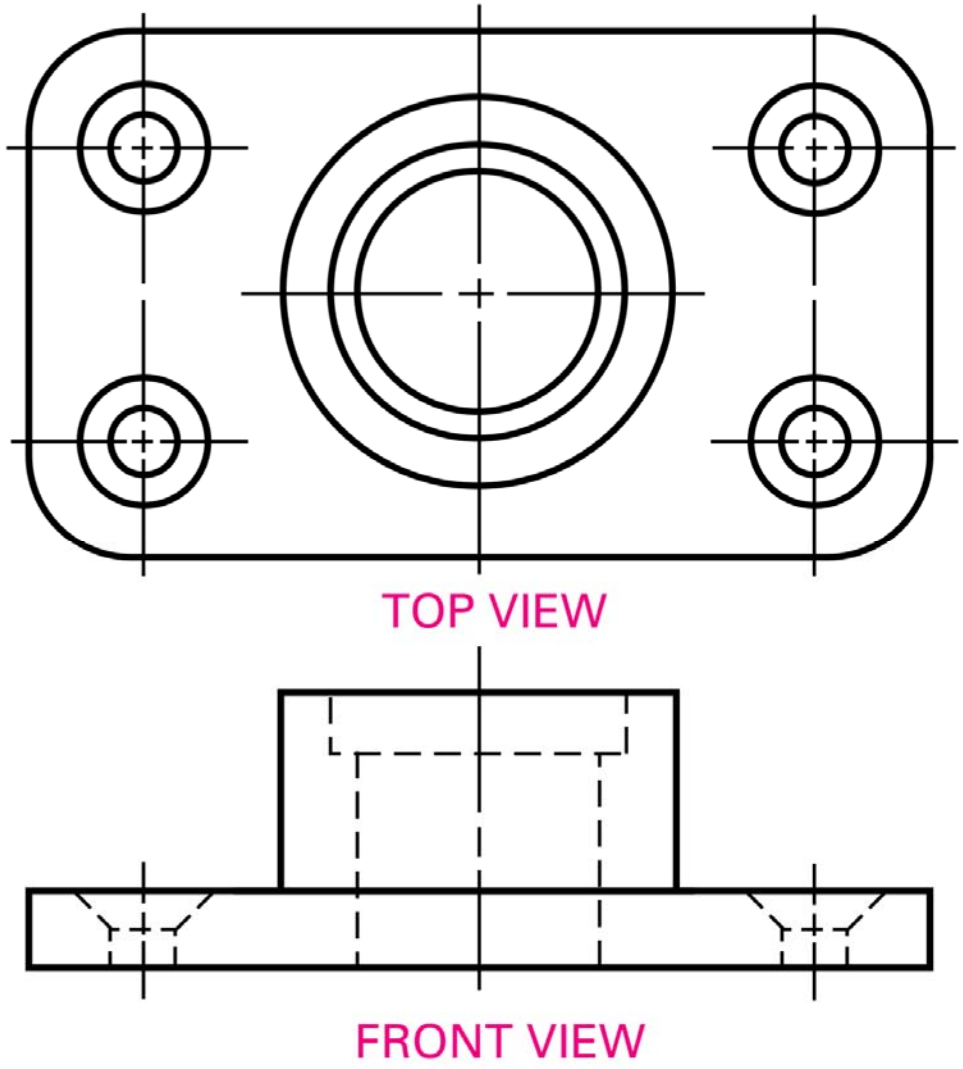
Bearing Flange with Cutting Plane

Offset Section

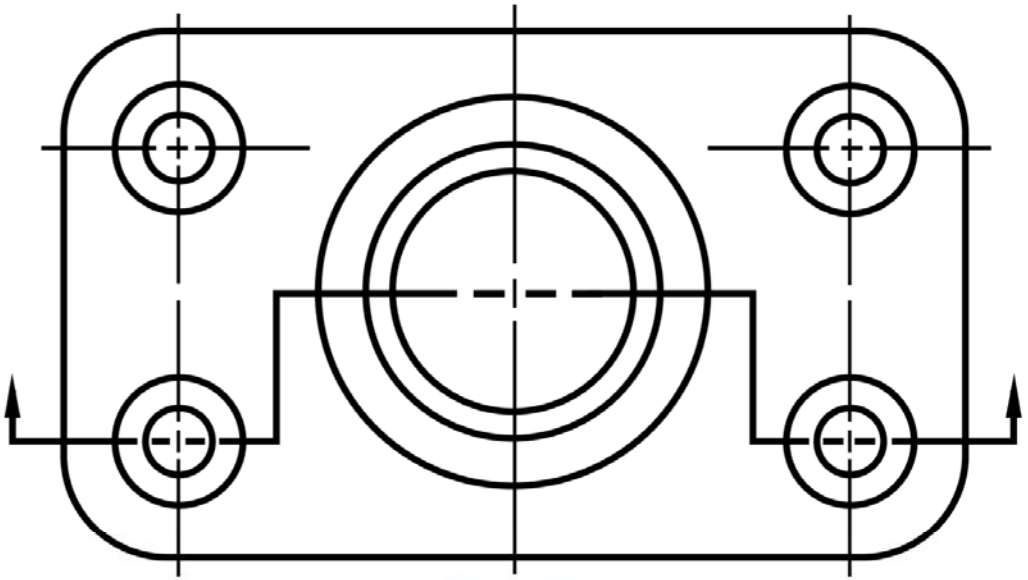


Front of Bearing Flange Moved Away to Expose Front Surface

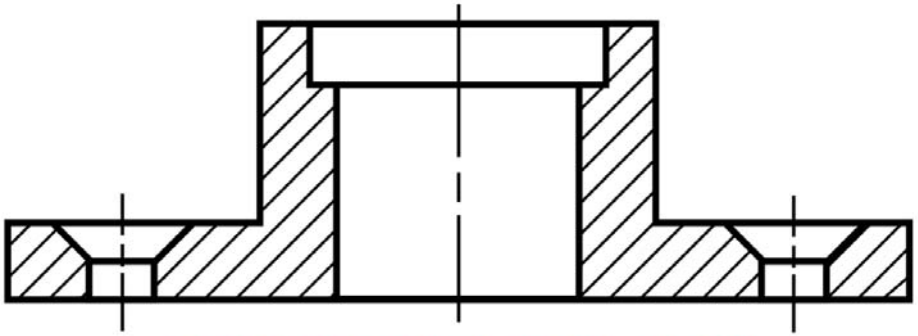
Offset Section (Multiview Drawing)



Offset Section



TOP VIEW



OFFSET-SECTIONAL VIEW

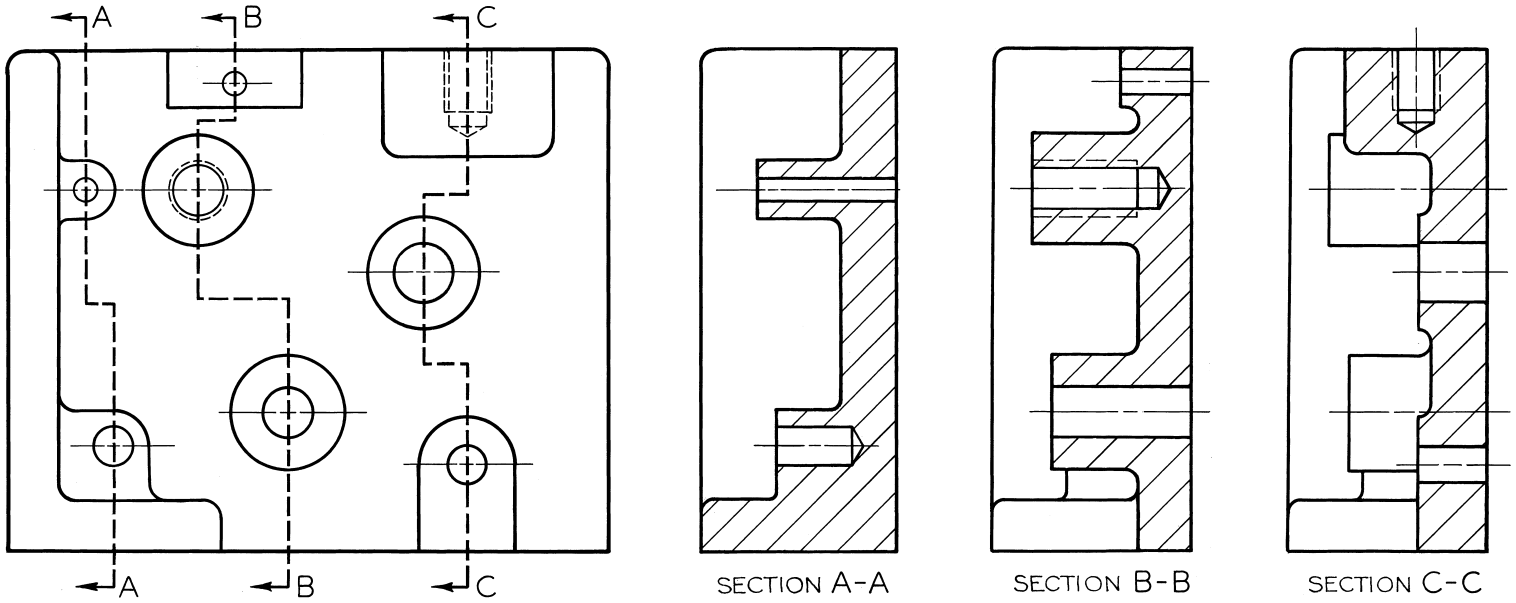


Figure 7-25

Three Offset Sections.

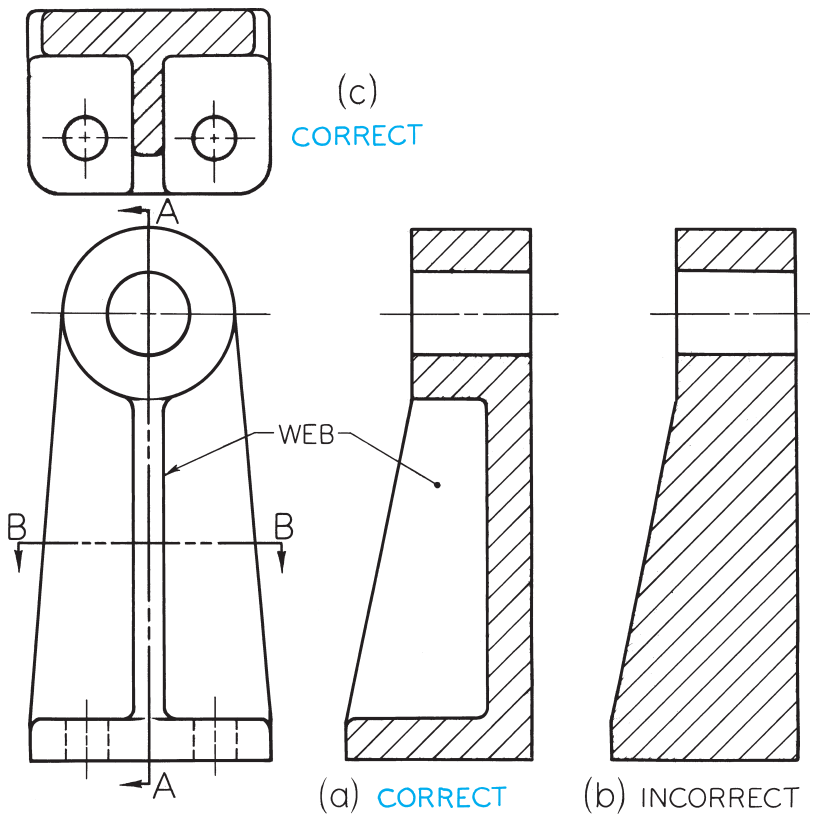


Figure 7-26

Webs in Section.

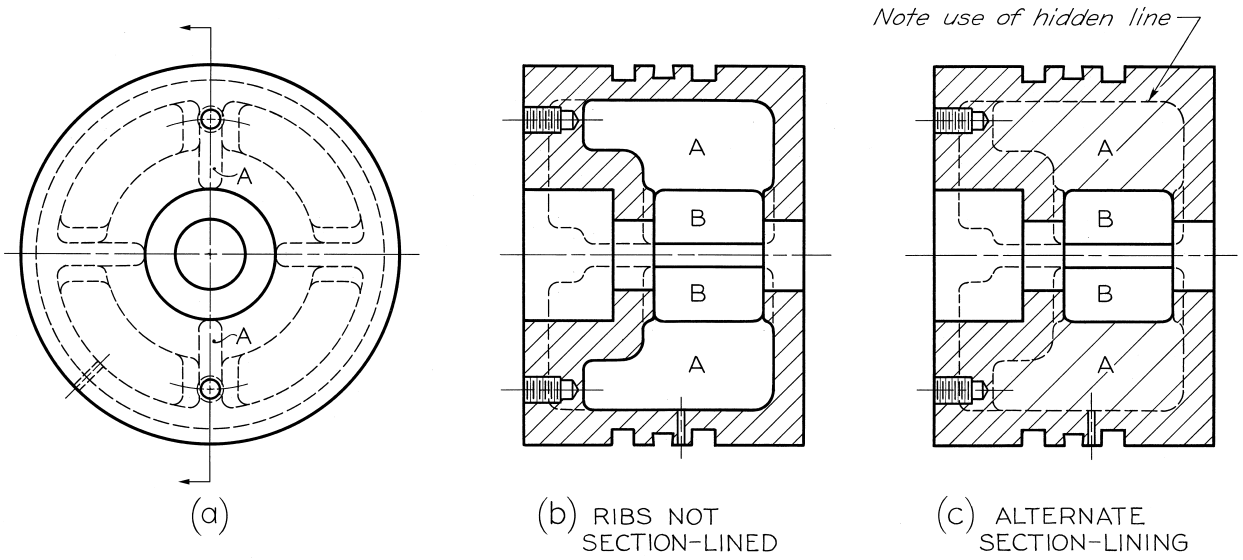


Figure 7-27

Alternate Section Lining.

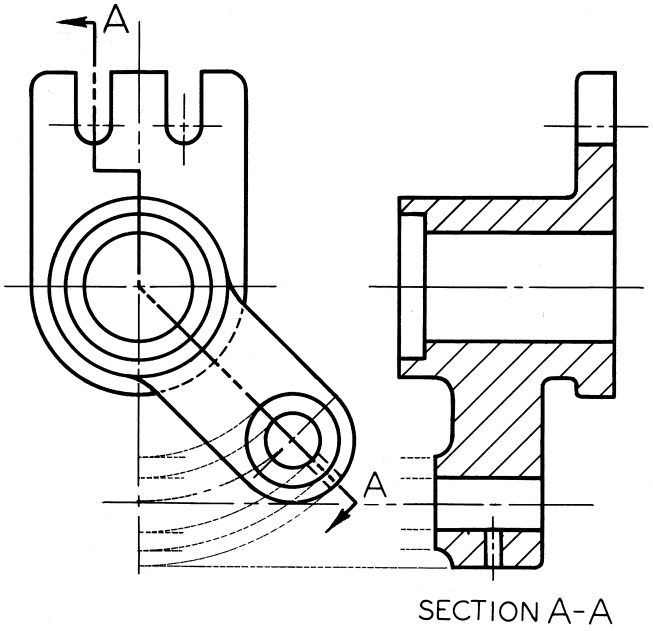


Figure 7-28

Aligned Section.

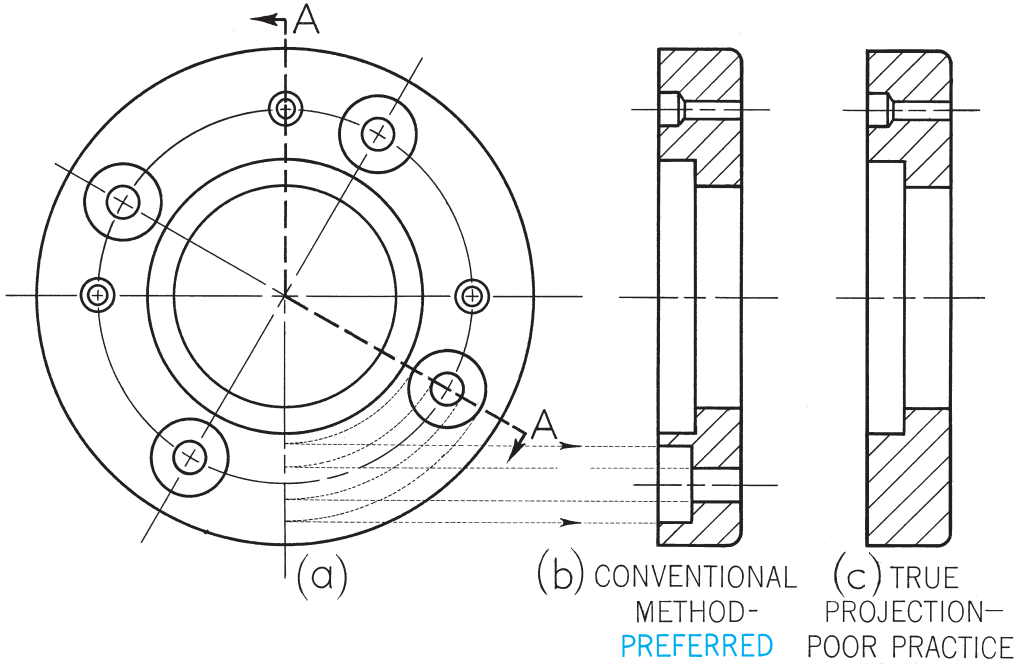


Figure 7-29

Aligned Section.

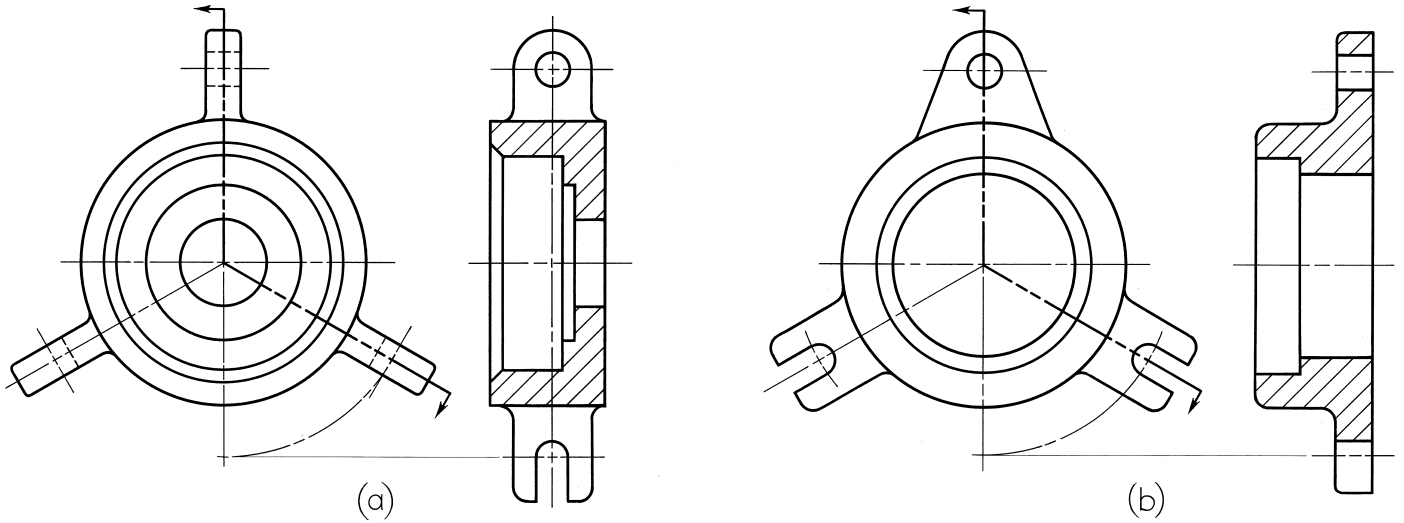


Figure 7-30

Aligned Sections.

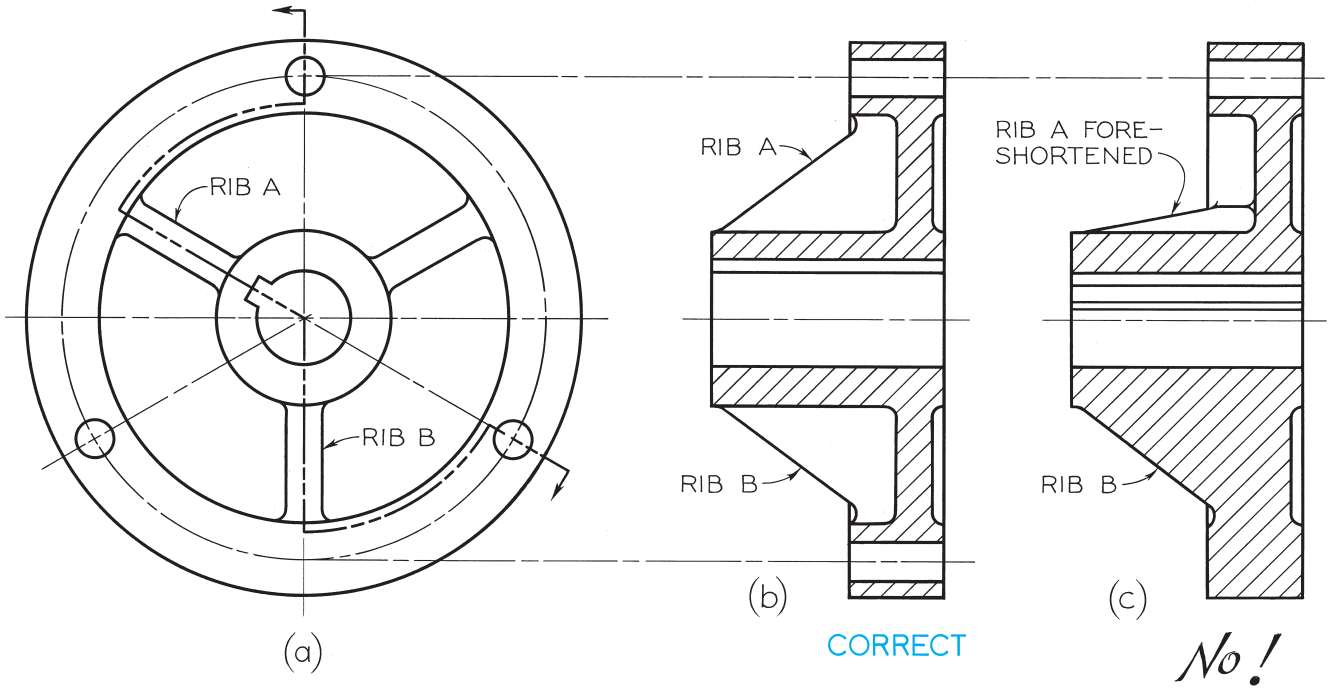


Figure 7-31

Symmetry of Ribs.

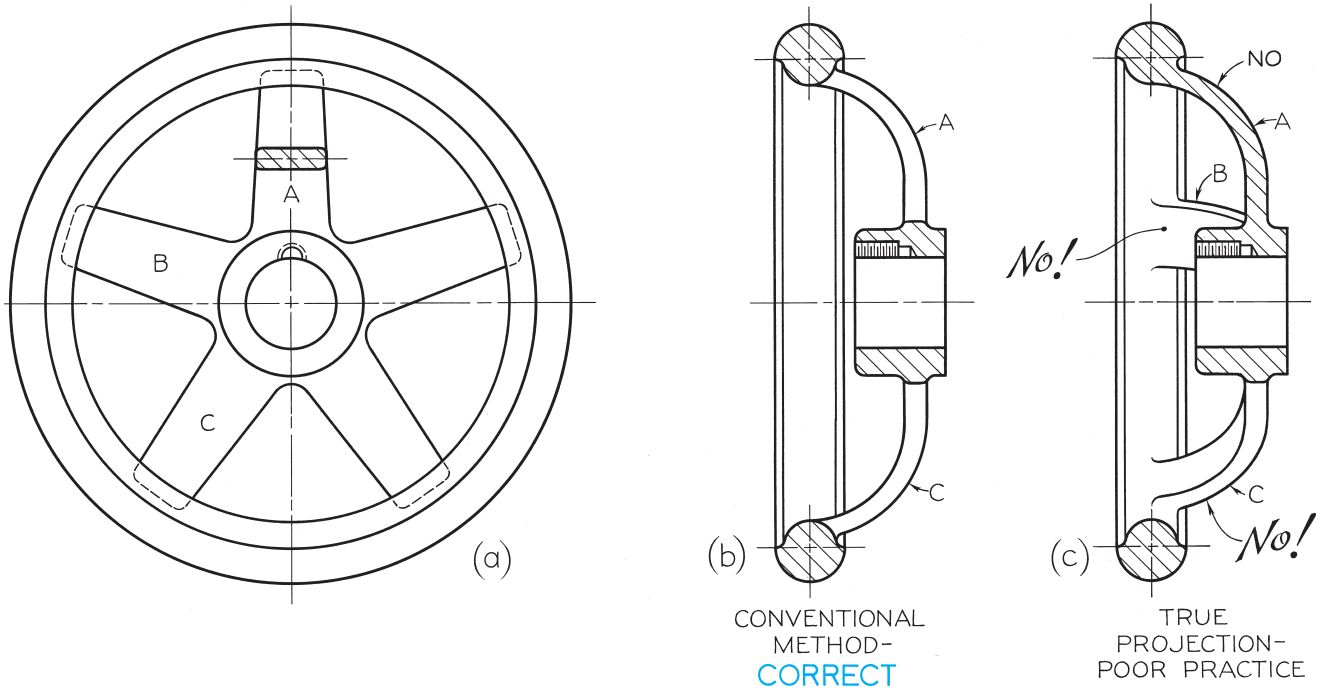


Figure 7-32

Spokes in Section.

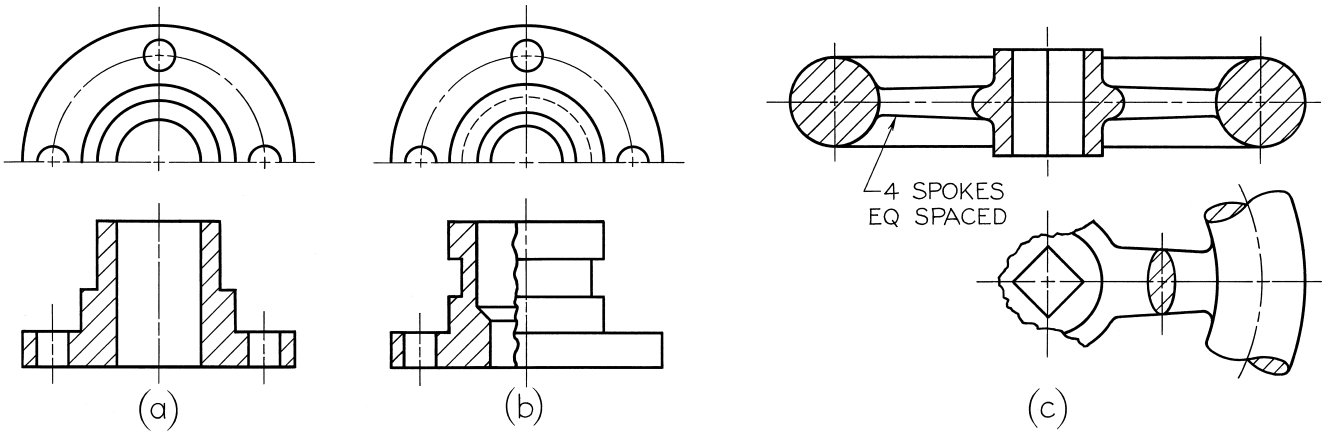


Figure 7-33

Partial Views.

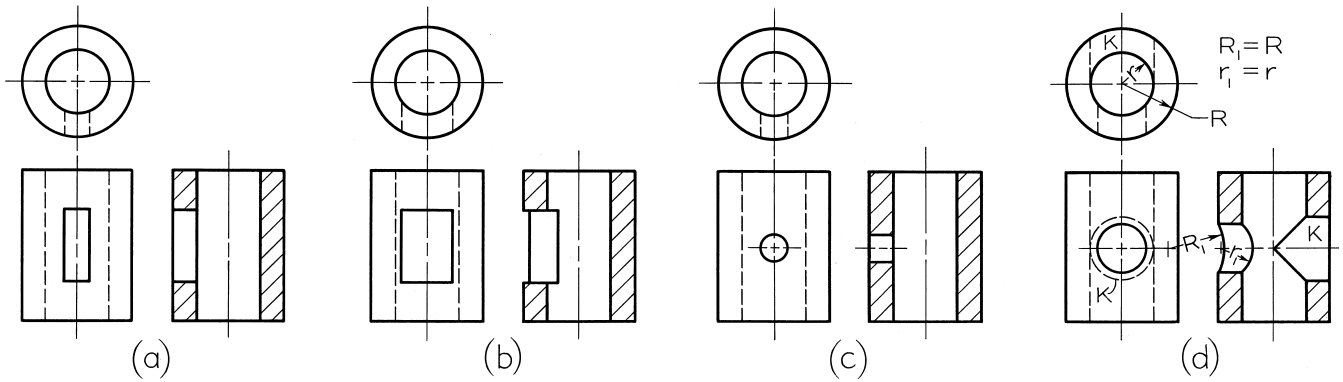


Figure 7-34

Intersections.

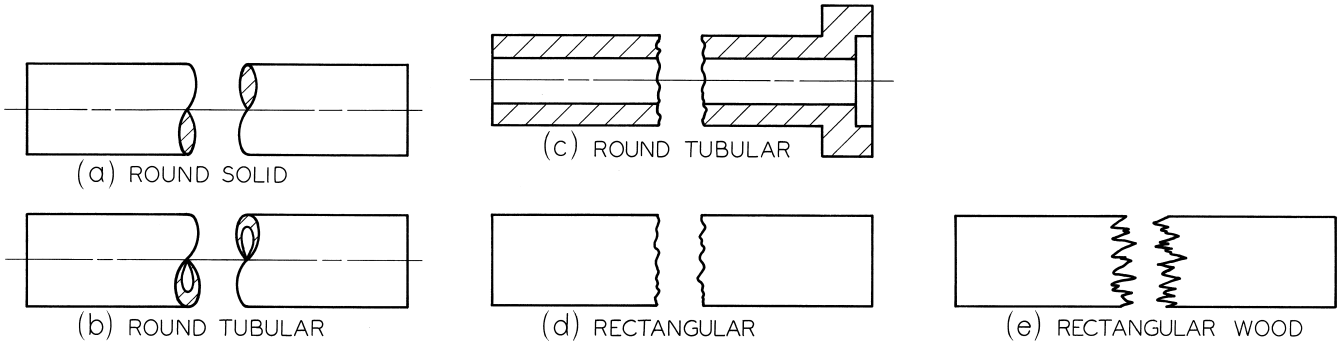


Figure 7-35

Conventional Breaks.

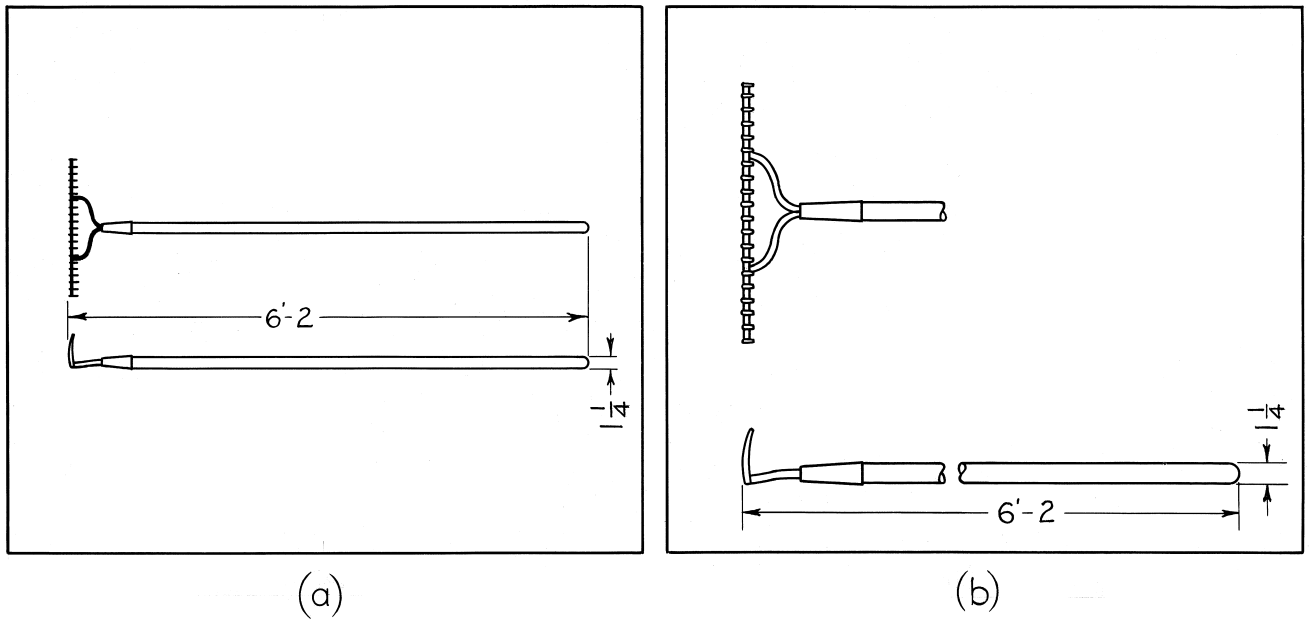


Figure 7-36

Use of Conventional Breaks.

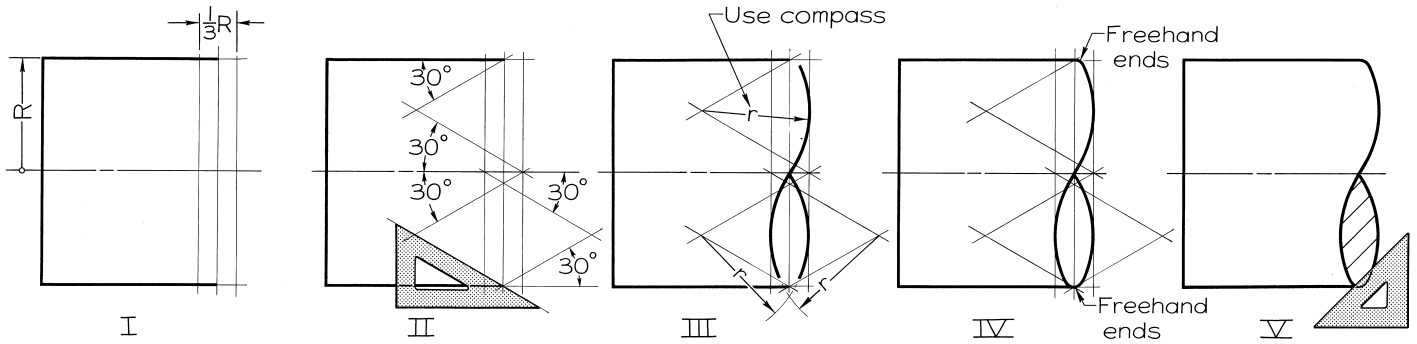


Figure 7-37

Steps in Drawing S-Breaks for Solid Shaft.

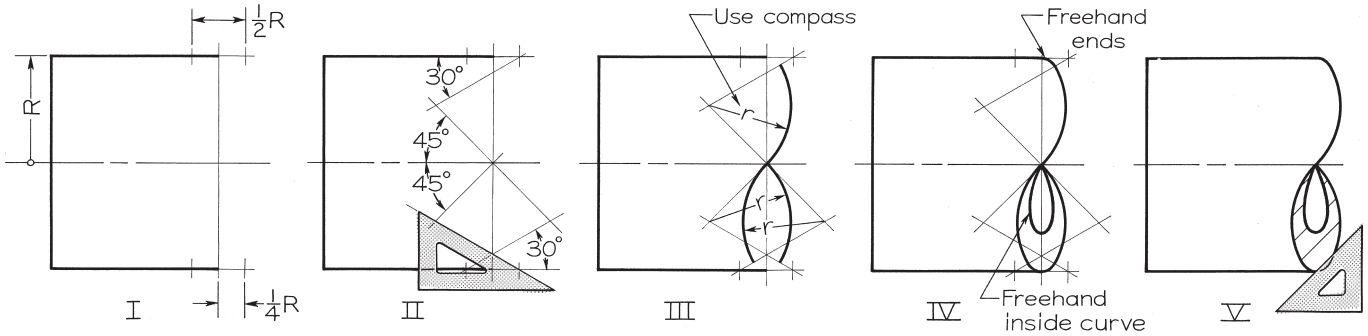


Figure 7-38

Steps in Drawing S-Breaks for Tubing.