



Chapter 10

CO2 Rail Car Form Washer

A. New Metric Document.

Step 1. Confirm new document and units are mm, Fig. 1.



Fig. 1

B. Extrude.

Step 1. On the Solid tab **SOLID** click **Create Sketch** in the Sketch area of toolbar and click **Right plane** in canvas.



Step 2. Click **Center Diameter Circle** (C) in the Create area of toolbar.

Step 3. Sketch **two circles** at the **Origin** , Fig. 2.

Step 4. Click **Dimension** (D) on the toolbar.

Step 5. Dimension circle **diameters 3.7** and **7.8**, Fig. 2.

Step 6. Click **Fit** (F6) on the Navigation Bar.

Step 7. On the Solid tab **SOLID** click **Extrude** (E).

Step 8. In the Extrude panel set, Fig. 3

Profile click **profile between circles**, Fig. 4

Start **Profile Plane**

Direction **Symmetric**

Measurement **Whole Length**

Distance **.8**

click OK.

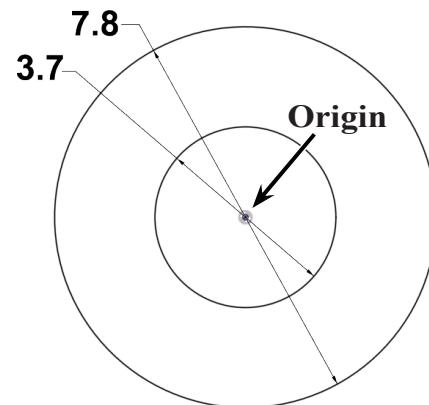


Fig. 2

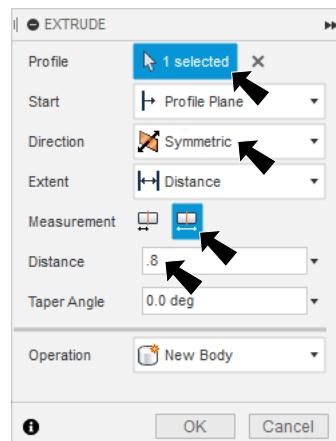


Fig. 3

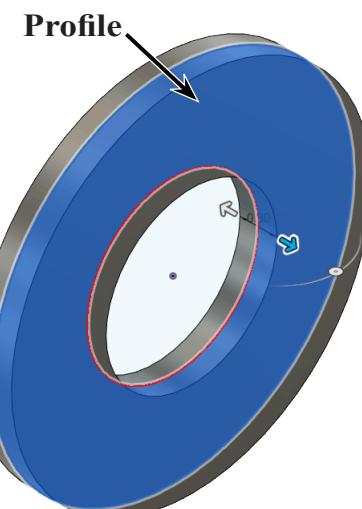


Fig. 4

C. Save as "WASHER".

Step 1. Click File Menu > Save.

Step 2. In the Save dialog box:

Key-in **WASHER** for filename.

click Save.

D. Material Brass.

Step 1. On the Solid tab **SOLID** click Modify Menu > Physical Material.

Step 2. In the Physical Material Panel:
under Library, **Fig. 5**.
expand Metal
drag Brass onto the body, **Fig. 6**.
Close panel.

Step 3. Save. **Ctrl-S** and press ENTER.

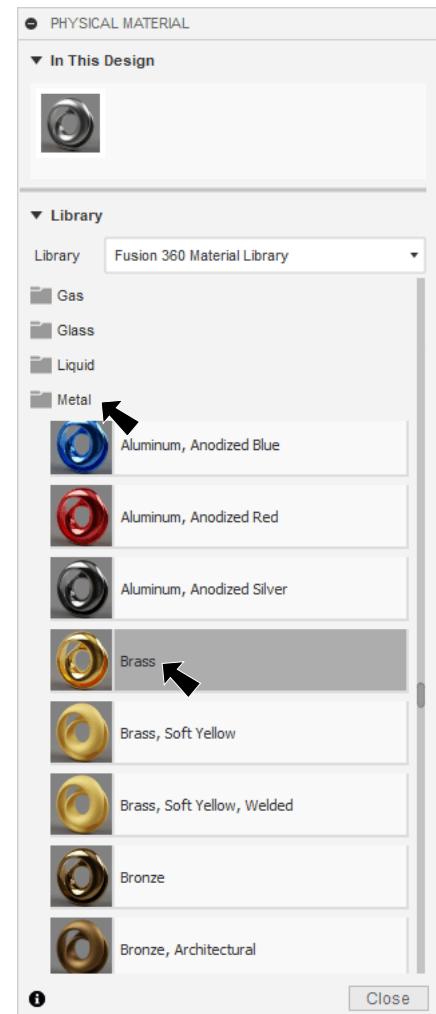
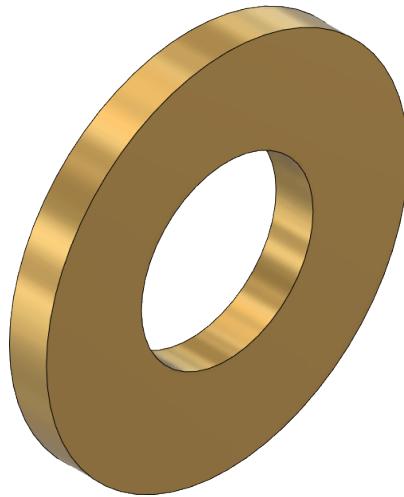


Fig. 5