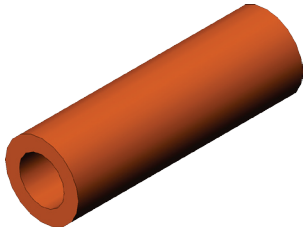
Chapter 14

# Boat Coupling



## A. Tube.

Step 1. Click File Menu > New, click **Part** and OK.

Step 2. Click **Front Plane** in the Feature Manager and click **Sketch** from the Content toolbar, **Fig. 1**.

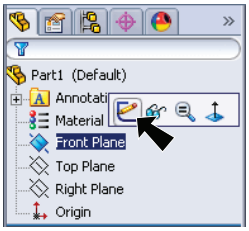


**Fig. 1**

Step 3. Click **Circle** (**S**) on the Sketch toolbar.

Step 4. Draw **two circles** starting at the Origin , **Fig. 2**.

Step 5. Click **Smart Dimension** (**S**) on the Sketch toolbar.

Step 6. Dimension the circle as shown in **Fig. 2**.

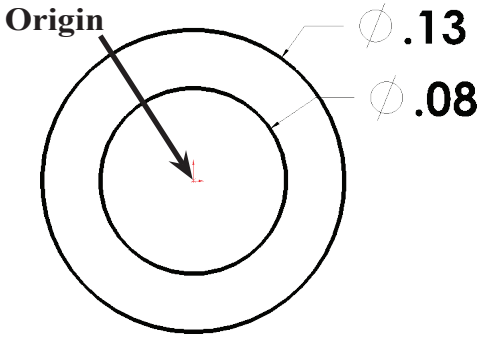


**Fig. 2**

Step 7. Click **Features** on the Command Manager toolbar.

Step 8. Click **Extruded Boss/Base** on the Features toolbar.

Step 9. In the Property Manager set:

**Depth** to **.4**

click OK , **Fig. 3** and **Fig. 4**.

Step 10. Click Zoom to Fit (**F**) on the View toolbar.

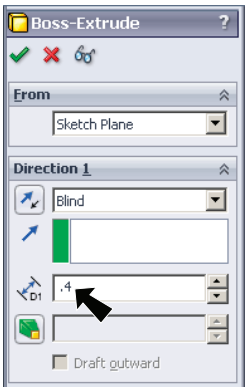


**Fig. 3**

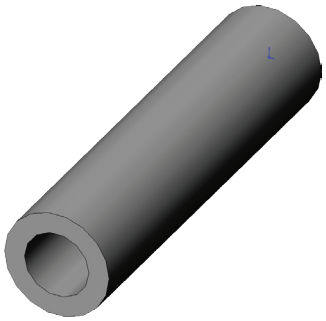


**Fig. 4**

## B. Save as "COUPLING".

Step 1. Click File Menu > Save As.

Step 2. Key-in **COUPLING** for the filename and press ENTER.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## C. Appearance.

Step 1. Click the Coupling to select the part, click **Appearance Callout** on the Content menu and click **COUPLING** , **Fig. 5**.

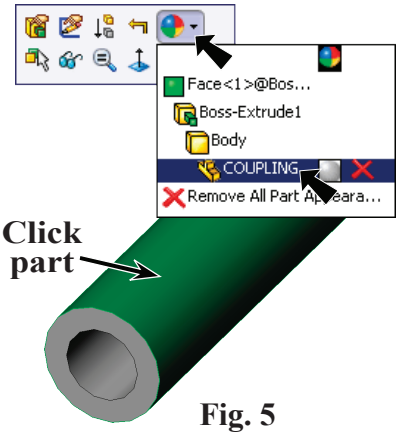


**Fig. 5**

Step 2. In the Appearances Task pane, expand **Rubber**, click **Gloss** and in the lower pane select **glossy rubber**, **Fig. 6**.

Step 3. Back over in the Appearances Property Manager, under Color:
click **Orange** swatch, **Fig. 7**
and OK , **Fig. 8**.

Step 4. Save. Use **Ctrl-S**.

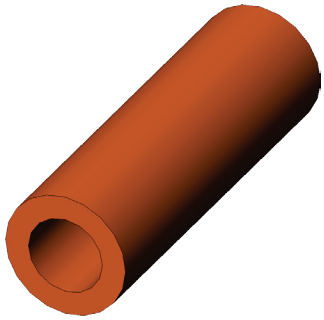

**Fig. 8**

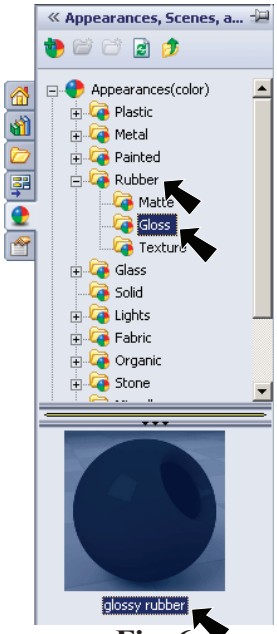


**Fig. 6**

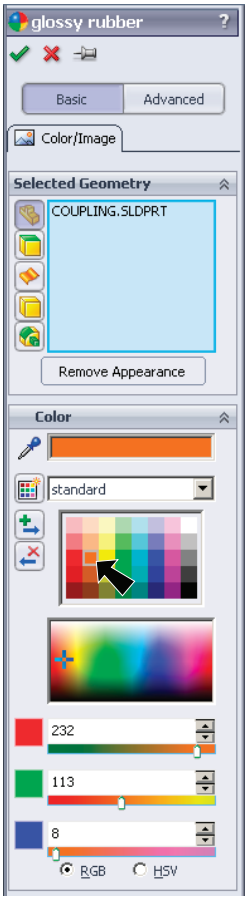


**Fig. 7**