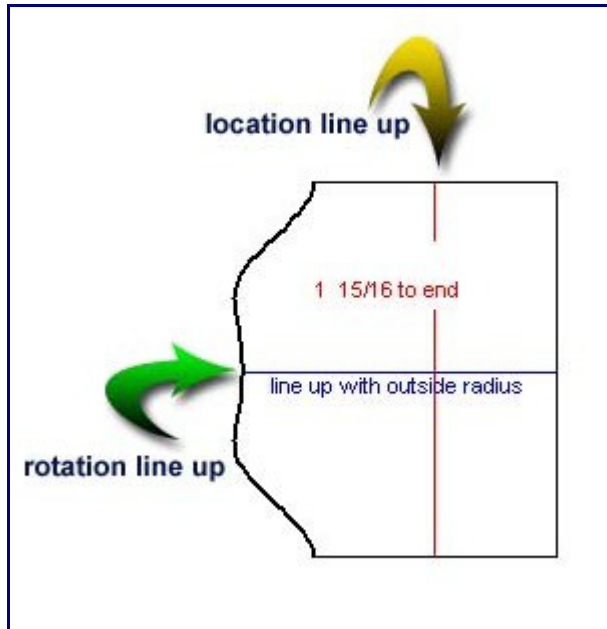# Line Up the Templates

Line up the Templates

The templates have 2 calibration lines on them. One is for rotation alignment and the other is for location down the tube.
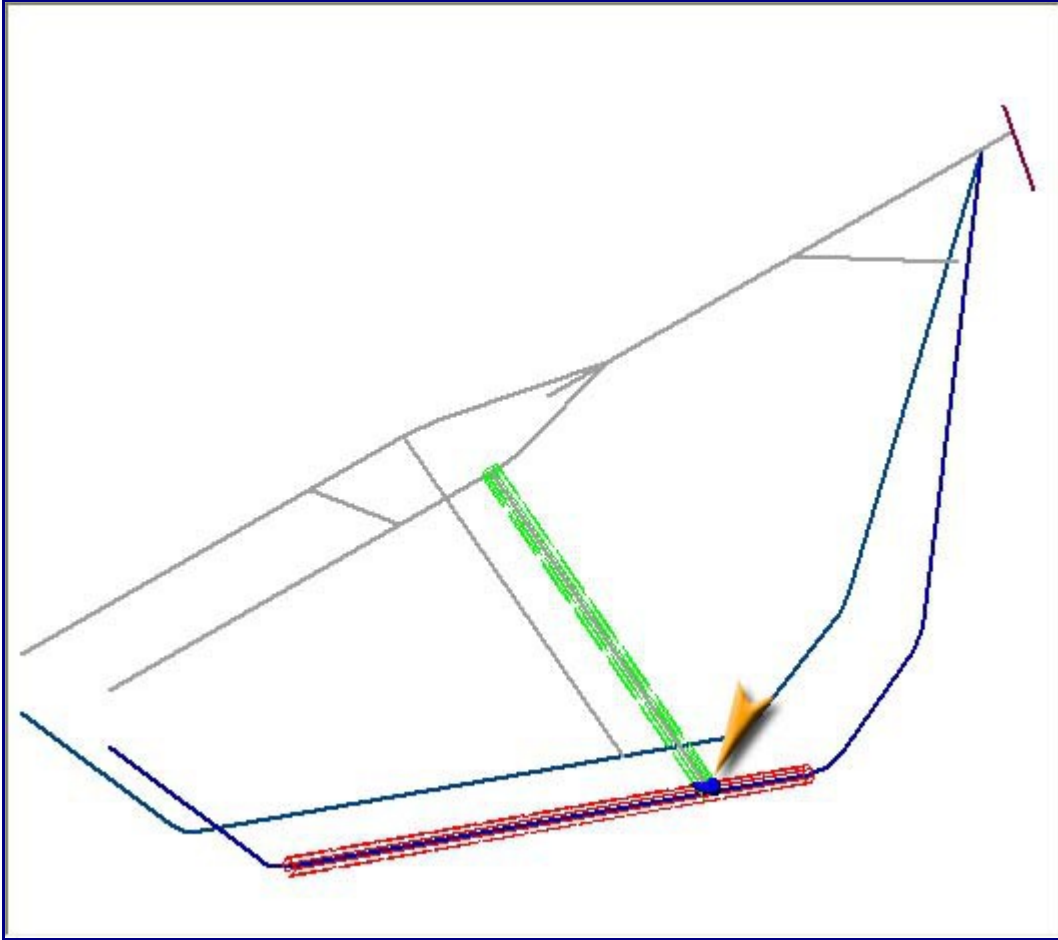

There are 3 different setups for the templates:

Straight tube, one end cut

**Straight tube, both ends cut**

Bent tube, either end cut

1) Straight Tube, One End Cut:

There is no rotary line up (blue line up line) and the location calibration (red line) needs to be placed the distance labeled from the opposite end. [21 3/16 in our case]

21 3/16 distance to end

no line up

21 3/16

2) Straight Tube, Both Ends Cut:

NOTE: The above pic shows cutting on both ends of the tube in the same picture. This is shown in the software as one end at a time.

Line the rotary lines down the tube (blue line) and the location calibration (red line) needs to be placed at the distanced labeled from each other. [19 9/16 in our case]
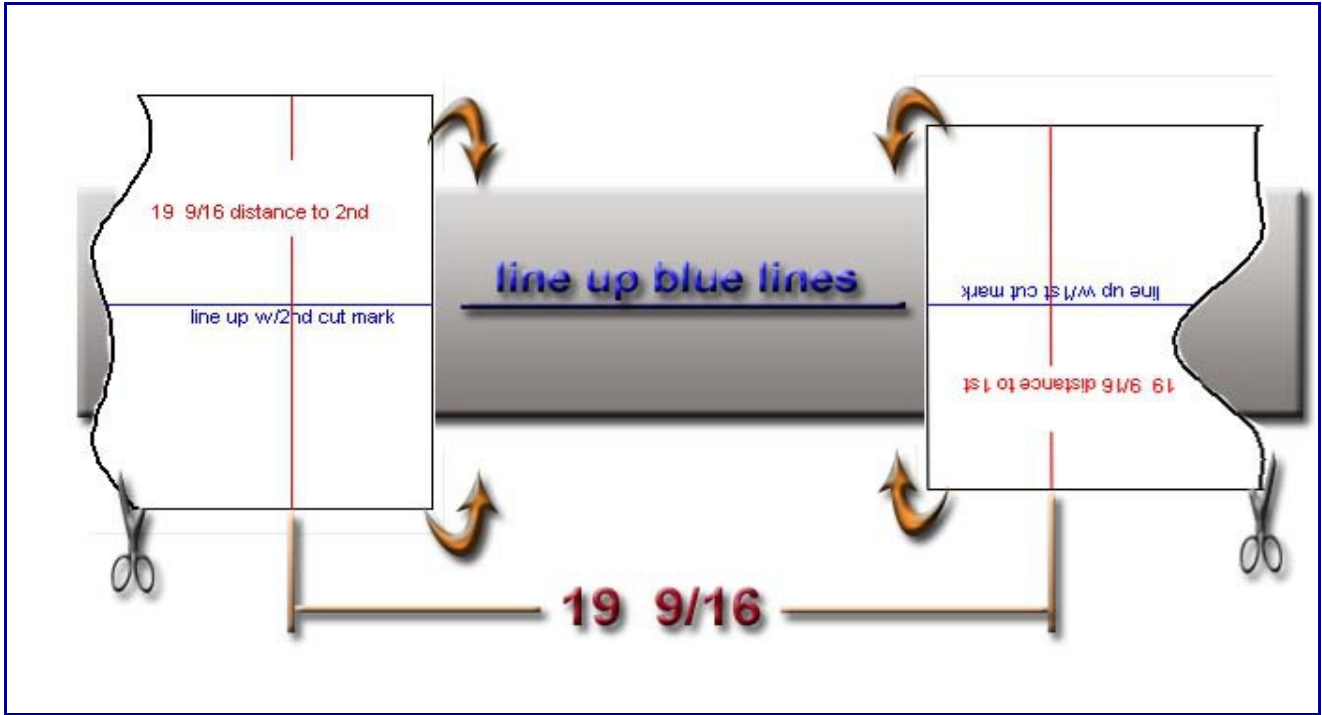
3) Bent Tube, Either End Cut:
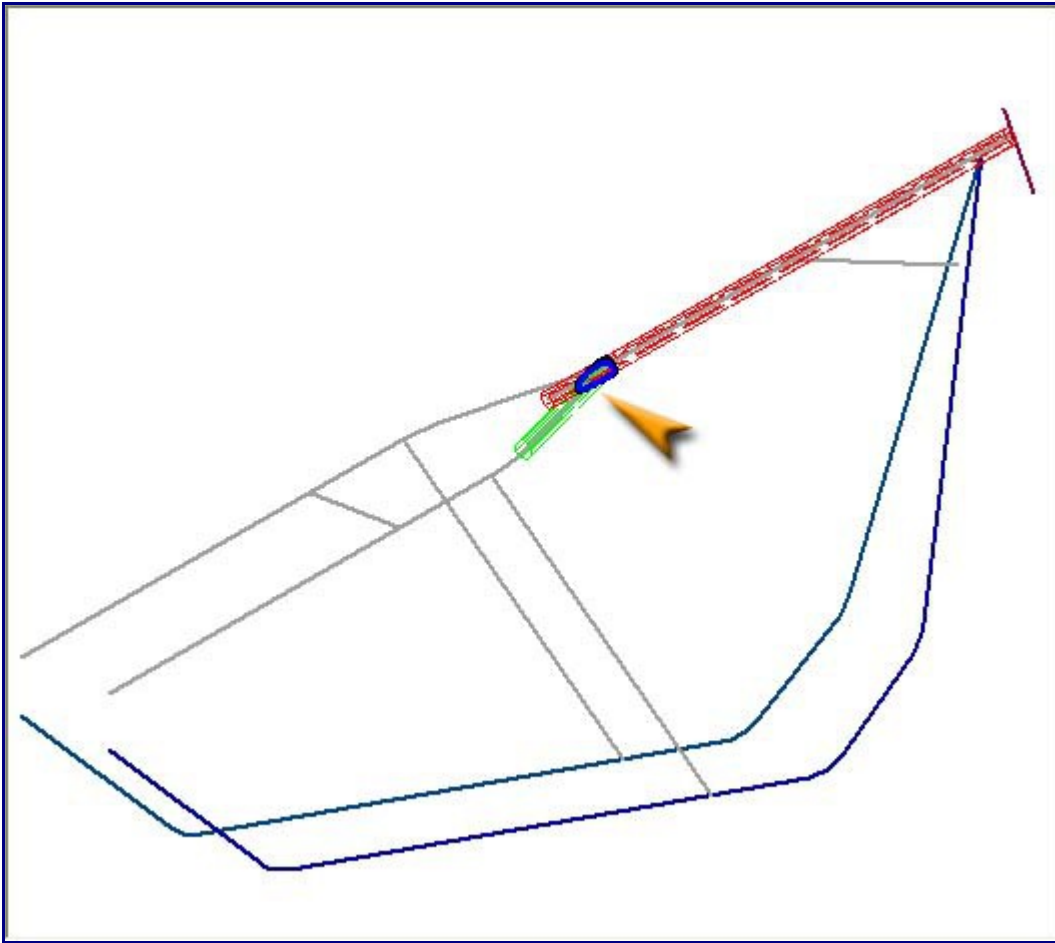
Line the rotary line with the out-most radius of the arc as shown in the following picture. The location line will depend on the check-box value of **"Distance to Perp of Bend"**.

If it is **Distance to Perp** is checked then you will come off of the Perp (apex for bends under 90 degrees) for the location line as shown in the following pic.

Distance to Perp of Bend

line up with outside radius

8 15/16 bend perp

8 15/16

outside most part of the bend
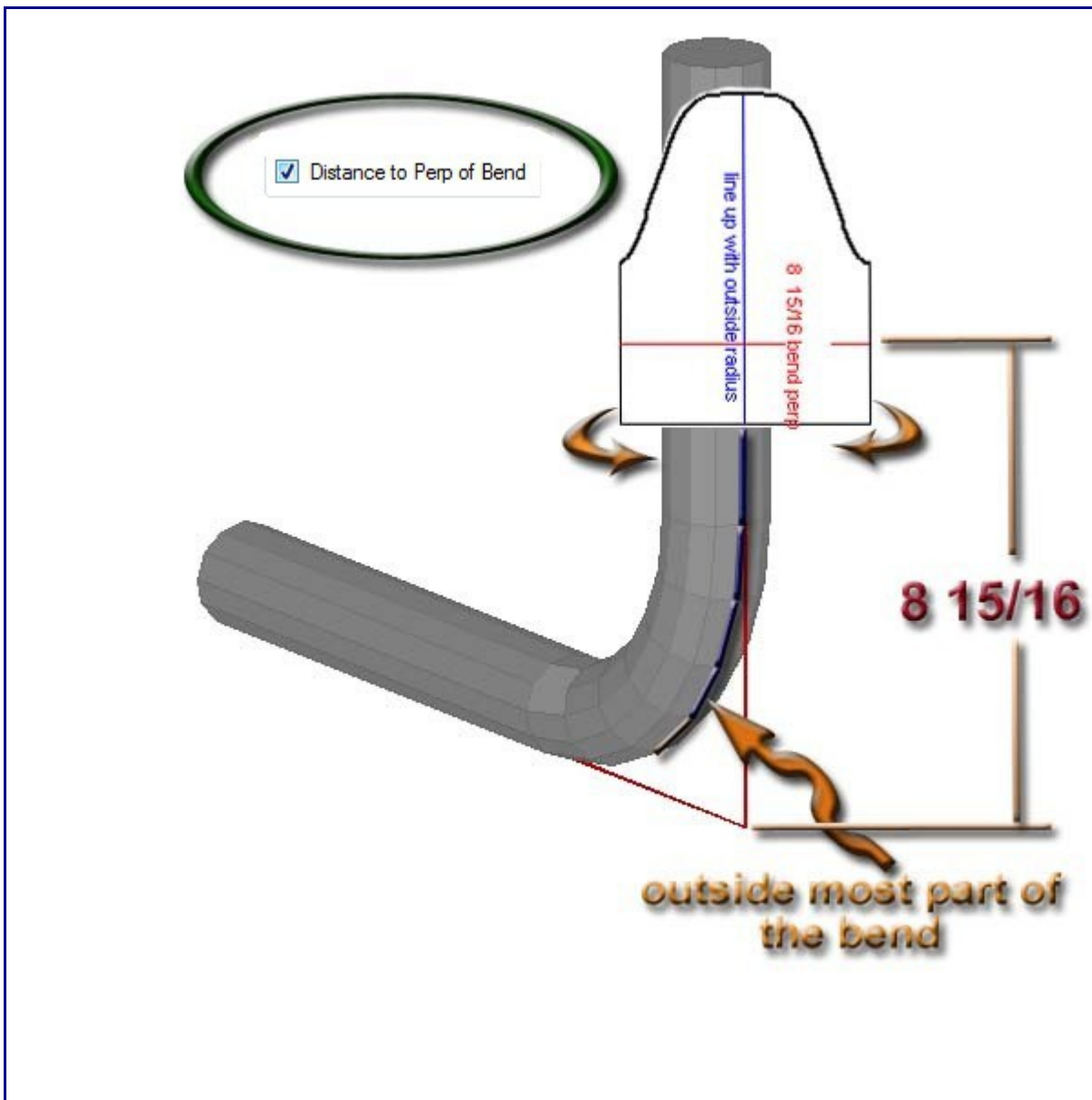
If **Distance to Perp** is not checked, it will be **Distance to end**. You will come off the end of the tube as shown in the next pic.

3 3/8

line up with outside radius

3 3/8 to end

outside most part of
the bend