Update: pipes of different half bend angles

Feb. 21, 2013 Yan Zhan

Outline

- Mercury Supply Pipe
- Re-mesh for Pipes without weld of different half bend angles
- Turbulence Intensity At Pipe Exits
- Discussion on Bend Effects and Nozzle Effects

Mercury Supply Pipe

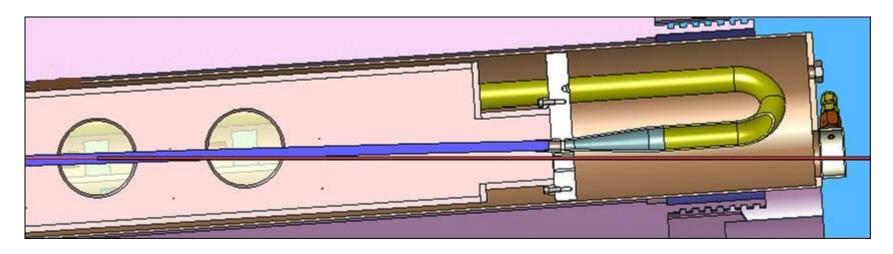


Fig. 1 Target Supply Pipe

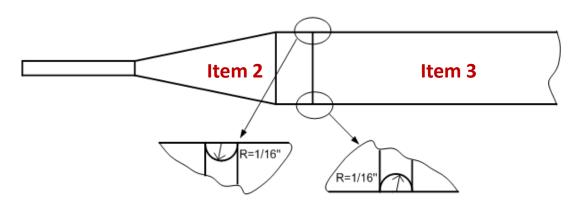


Fig. 2 Most Interested Weld

Whole azimuthal weld with semi-circle cross section

Re-mesh for Pipes without weld of different half bend angles

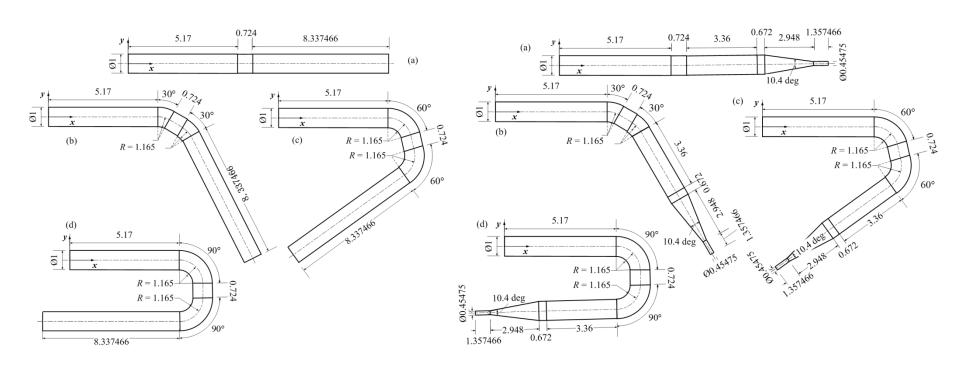


Fig. 3 Eight Geometries Studied

The height of 1st cell normal to wall: 5.56e-5 pipe diameter;



Turbulence Intensity At Pipe Exits

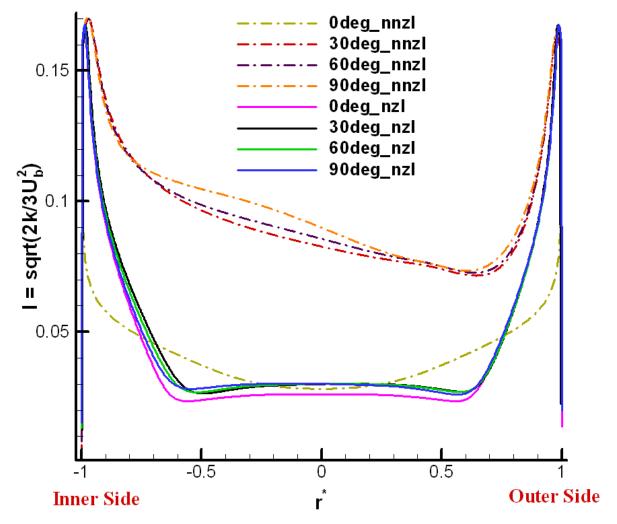


Fig. 4 Turbulence Intensity At the Pipe Exit

Discussion on Bend Effects and Nozzle Effects

