

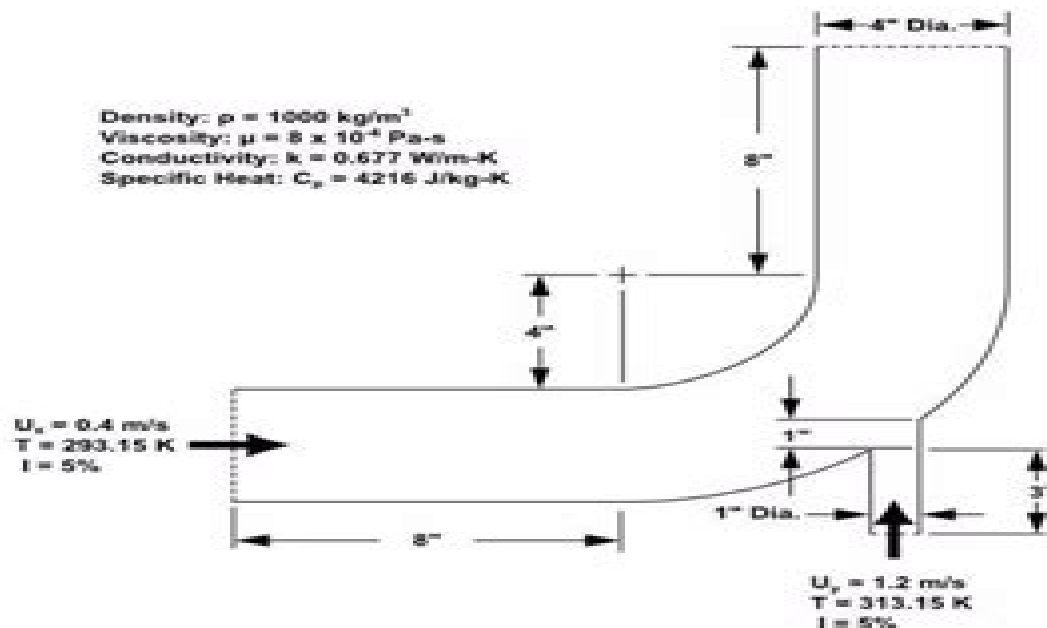
1.3. Problem Description

The problem to be considered is shown schematically in *Figure 1.1* (p. 2). A cold fluid at 293.15 K flows into the pipe through a large inlet and mixes with a warmer fluid at 313.15 K that enters through a smaller inlet located at the elbow. The mixing elbow configuration is encountered in piping systems in power plants and process industries. It is often important to predict the flow field and temperature field in the area of the mixing region in order to properly design the junction.

Note

Because the geometry of the mixing elbow is symmetric, only half of the elbow needs to be modeled.

Figure 1.1 Problem Specification



1.4. Setup and Solution

The following sections describe the setup and solution steps for this tutorial:

- 1.4.1. Preparation
- 1.4.2. Step 1: Creating a FLUENT Fluid Flow Analysis System in ANSYS Workbench
- 1.4.3. Step 2: Creating the Geometry in ANSYS DesignModeler
- 1.4.4. Step 3: Meshing the Geometry in the ANSYS Meshing Application
- 1.4.5. Step 4: Setting Up the CFD Simulation in ANSYS FLUENT
- 1.4.6. Step 5: Displaying Results in ANSYS FLUENT and CFD-Post

Fluent 14 Tutorial Guide

Terry C. Jones



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