

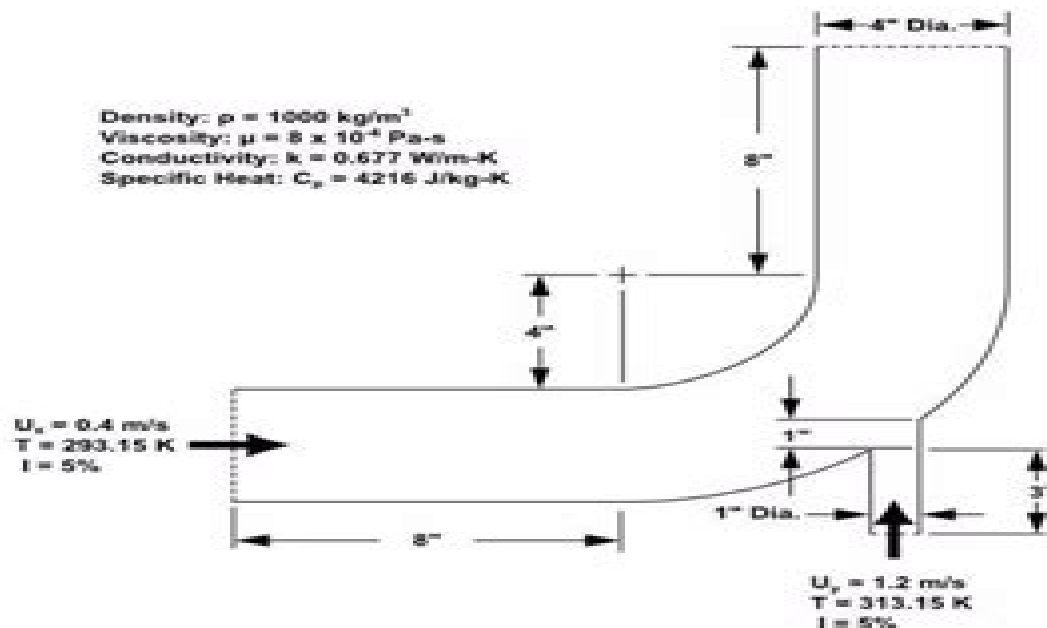
### 1.3. Problem Description

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

# Guide Fluent 14

**Patrick Vollmar**



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**Recent Advances in Urban Ventilation Assessment and Flow Modelling** Riccardo Buccolieri, Jian Hang, 2019-04-23 This book contains twenty one original papers and one review paper published by internationally recognized experts in the Atmosphere Special Issue Recent Advances in Urban Ventilation Assessment and Flow Modelling years 2017-2019 The Special Issue includes contributions on recent experimental and modelling works techniques and developments mainly tailored to the assessment of urban ventilation on flow and pollutant dispersion in cities The study of ventilation is of critical importance as it addresses the capacity with which a built urban structure is capable of replacing the polluted air with ambient fresh air Here ventilation is recognized as a transport process that improves local microclimate and air quality and closely relates to the term breathability The efficiency with which street canyon ventilation occurs depends on the complex interaction between the atmospheric boundary layer flow and the local urban morphology The individual contributions to this Issue are summarized and categorized into four broad topics 1 outdoor ventilation efficiency and application development of ventilation indices 2 relationship between indoor and outdoor ventilation 3 effects of urban morphology and obstacles to ventilation and 4 ventilation modelling in realistic urban districts The results and approaches presented and proposed will be of great interest to experimentalists and modelers and may constitute a starting point for the improvement of numerical simulations of flow and pollutant dispersion in the urban environment for the development of simulation tools and for the implementation of mitigation strategies

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*Code of Federal Regulations* ,1995 Special edition of the Federal Register containing a codification of documents of general applicability and future effect as of July 1 with ancillaries

Proceedings of the Third International Symposium on High Temperature Lamp Chemistry Joseph M. Ranish,Charles W. Struck,1993

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