



Test case 1 - Flow in a conduit (pipe)

Description

The geometry is given (Z_BEND.igs or .step) and the expected physical conditions are shown in Figure 1.

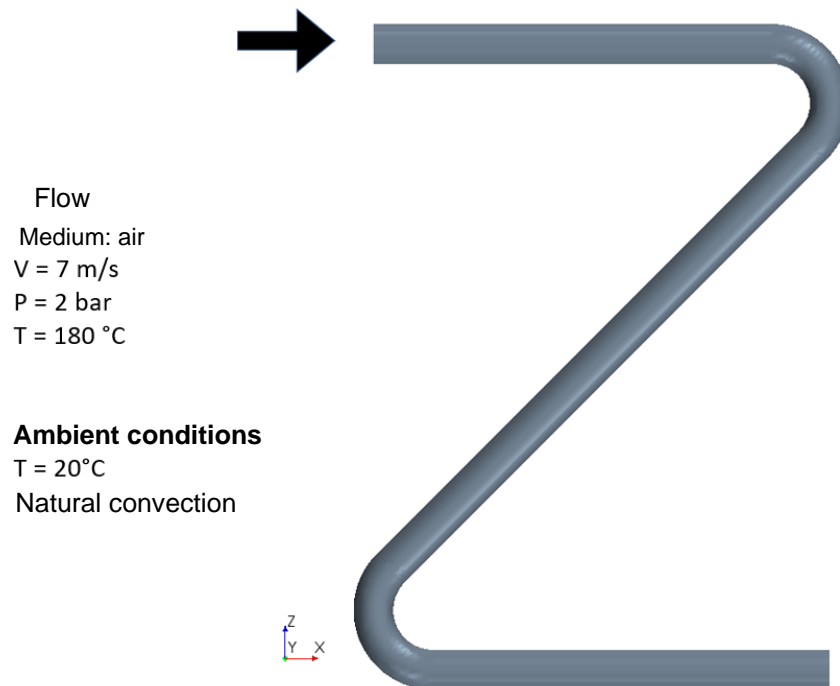


Figure 1 - Geometry and data of the test case

You are required to create a mesh to obtain a Y^+ of 45.

Expected results in PowerPoint format (template provided)

- Mesh description
- Evaluation of mesh quality
- Justification of the convergence of the calculation
- Evaluation of the overall system pressure losses
- Evaluation of singular pressure losses
- Speed fields
- Temperature fields and output temperature value