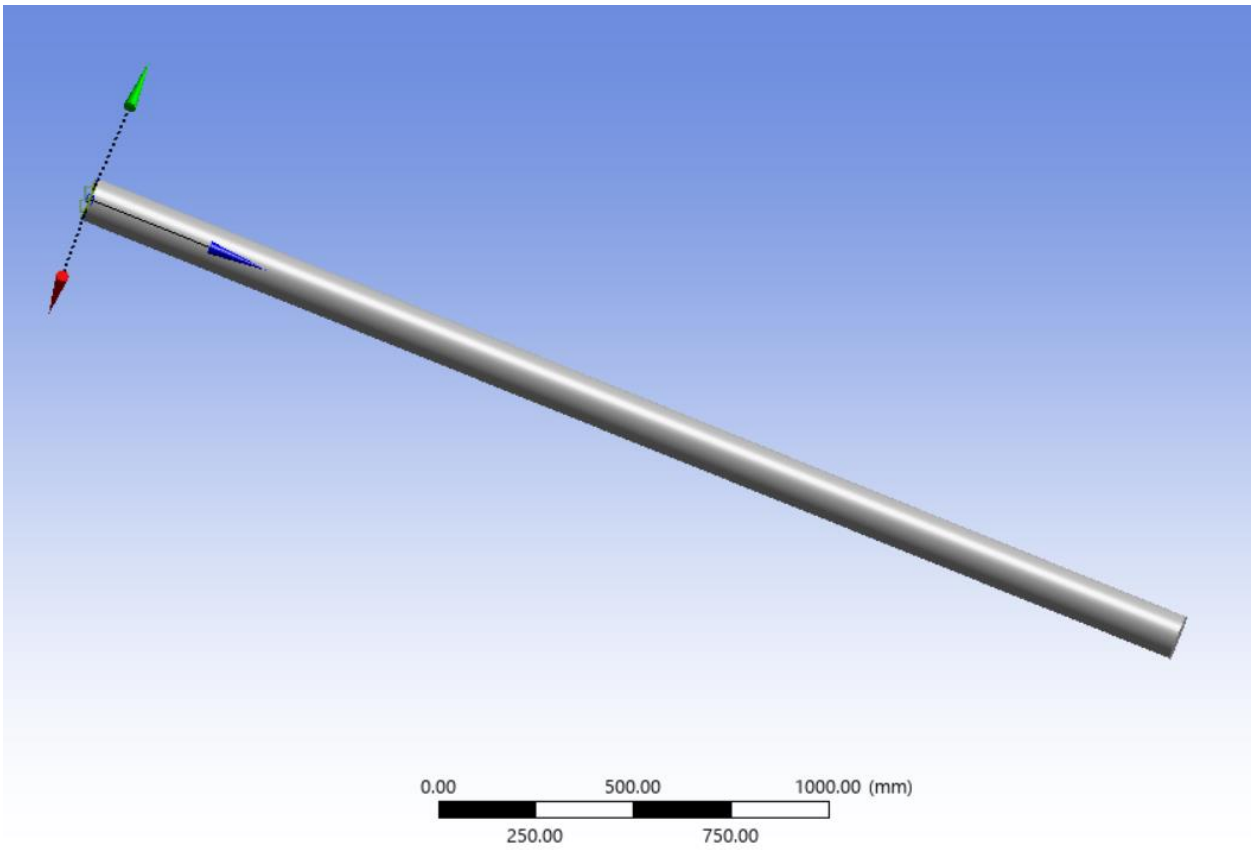
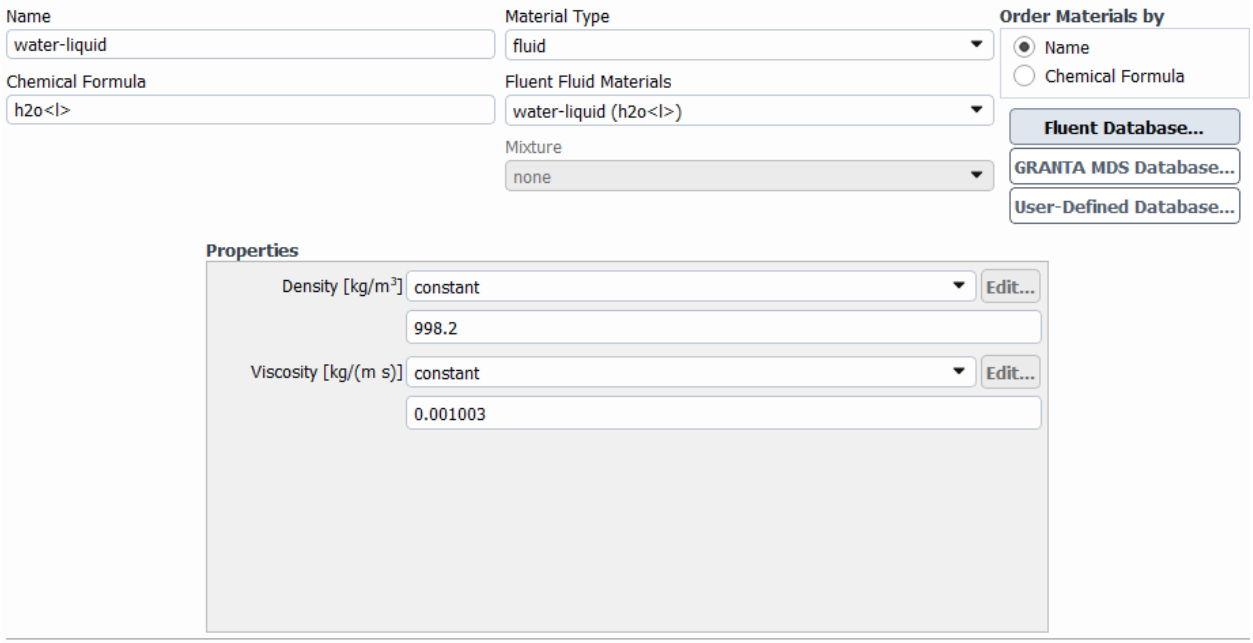
Project 17: ANSYS FLUENT: Calculation of pressure inside a water pipe

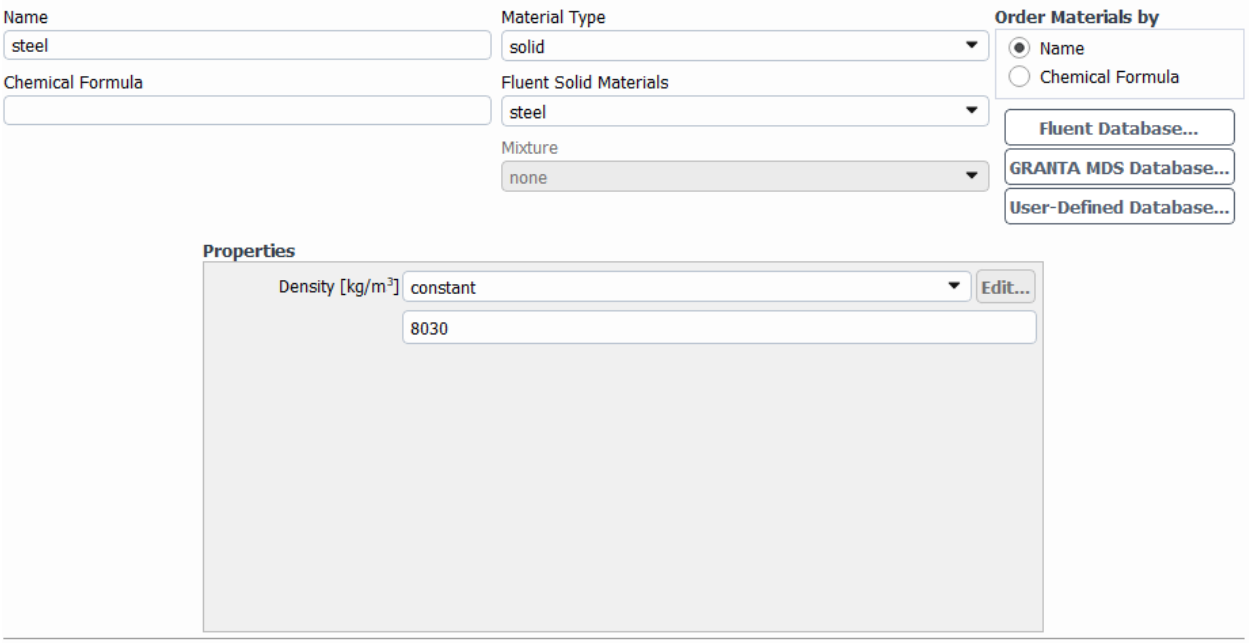
Problem Statement: Calculate the pressure inside a steel pipe with water flowing inside (v=2.5m/s).

Geometry:



Material Properties:

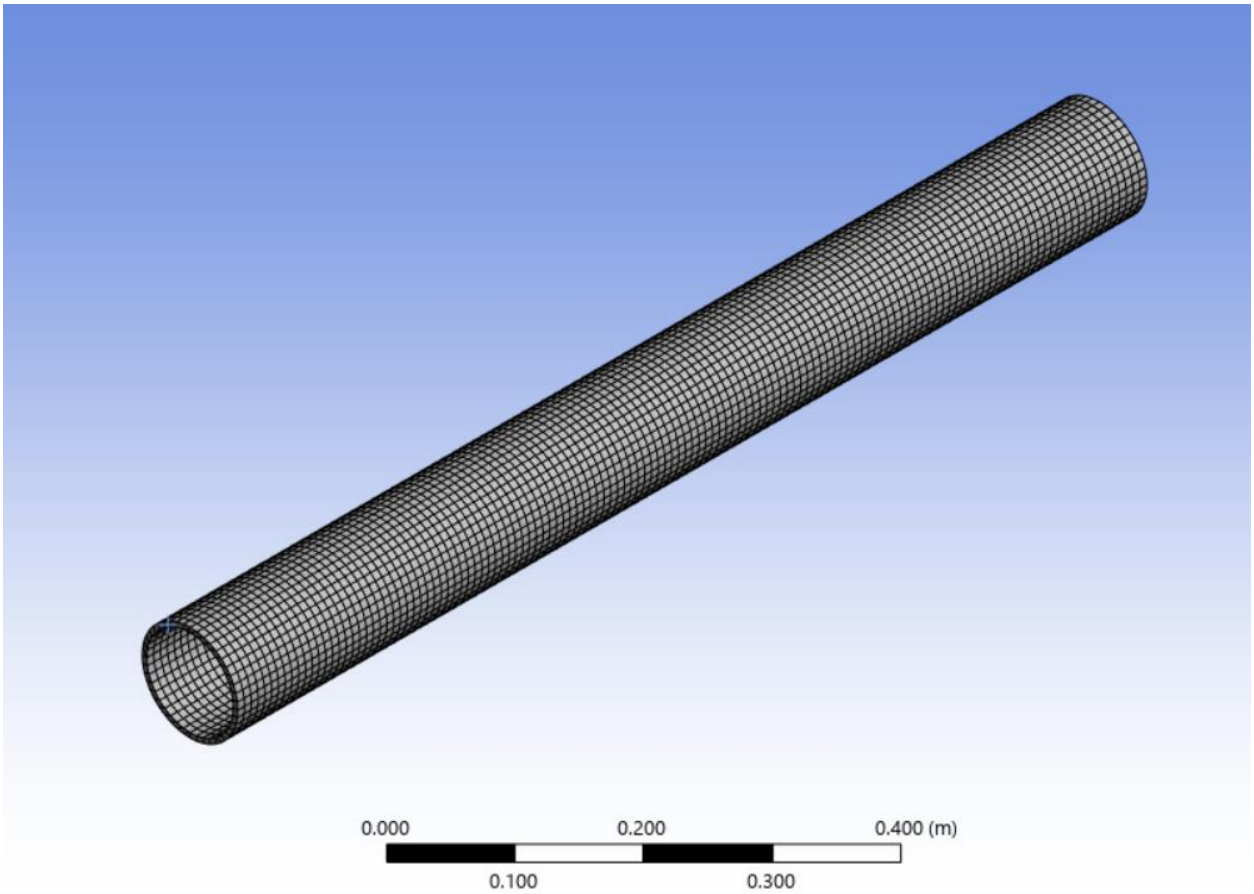




Boundary Conditions:

Inlet: v=2.5m/s. Outlet: p=0 Pa.

Mesh:



Results: Pressure Contour inside the pipe.