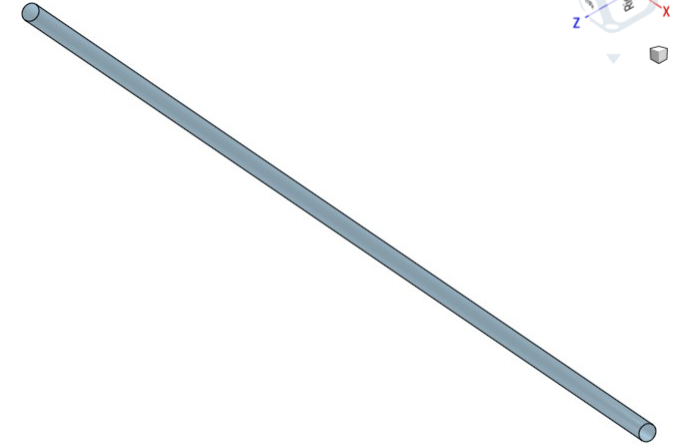
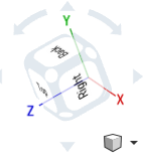
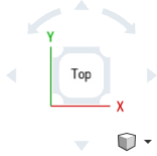
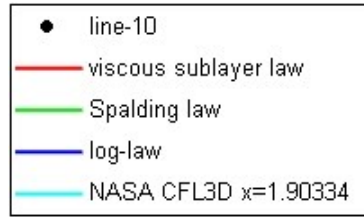
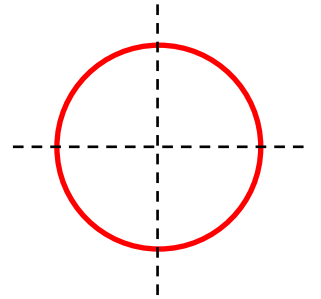


Problem definition

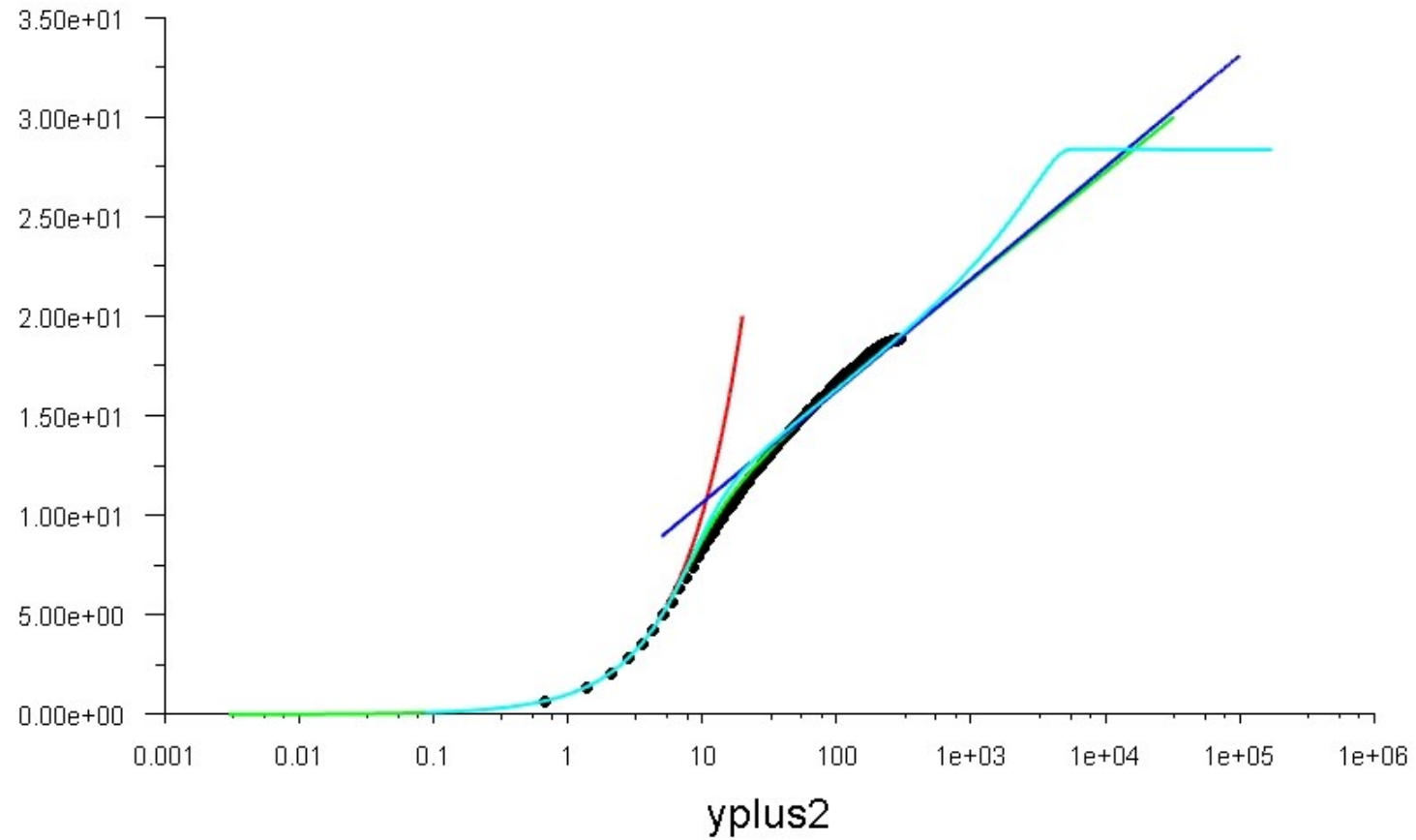


- Pipe diameter = 0.1 m
- Pipe length = 7.0 m
- Run the case in laminar regime and turbulent regime.
 - $Re_{\text{laminar}} = 500$
 - $Re_{\text{turbulent}} = 100000$
- Working fluid – Incompressible flow.
 - Set density equal to 1 kg/m^3 and inlet velocity equal to 1 m/s
- Run the case in 2D and 3D.

Post-processing

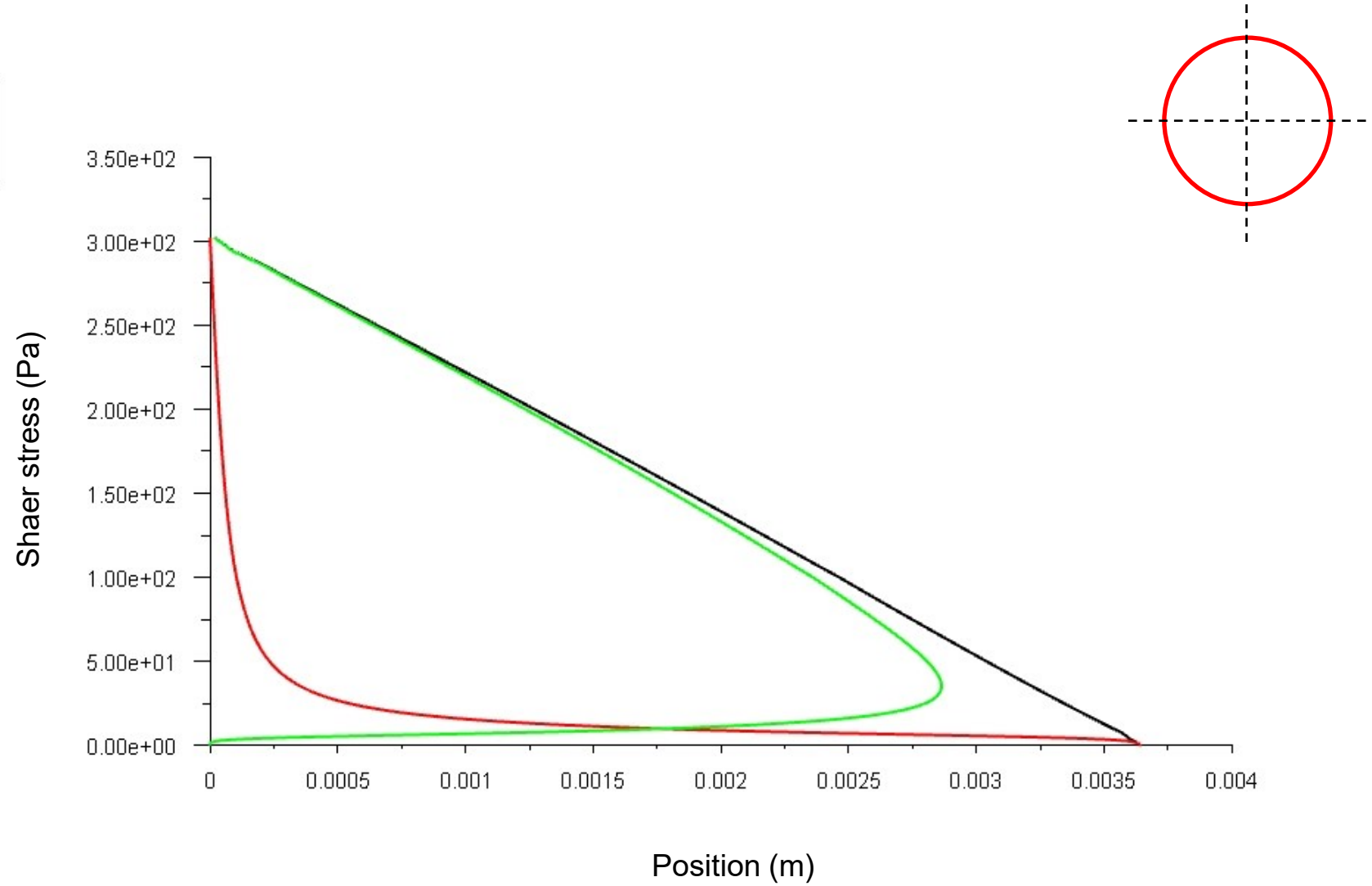
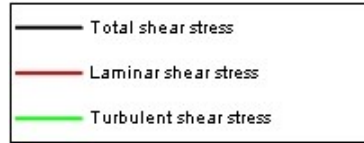


uplus



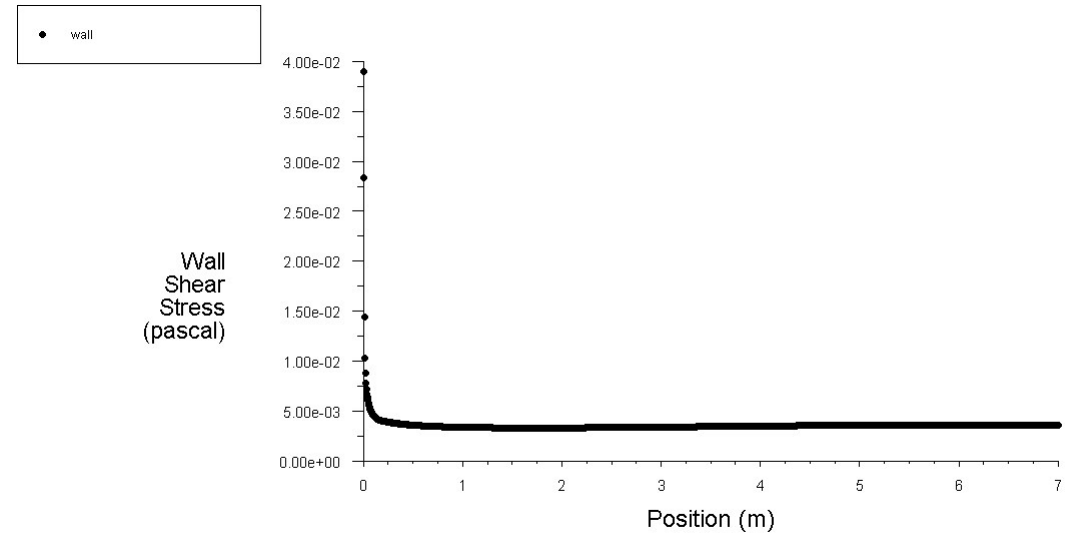
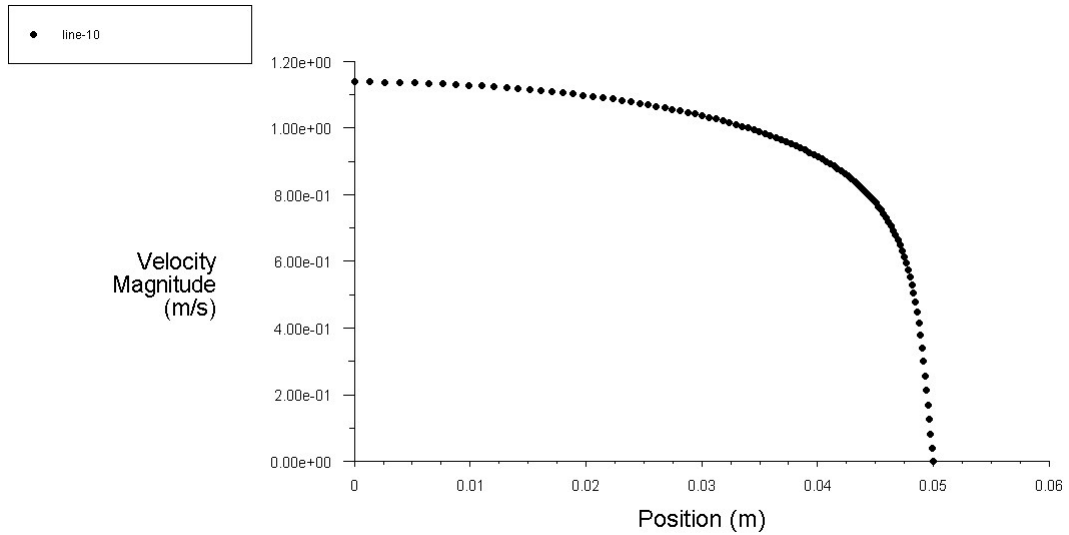
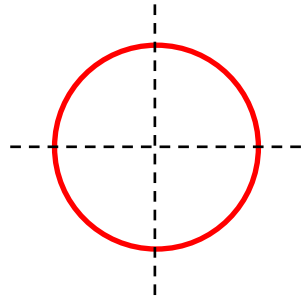
- All sampling is done where the flow is fully developed.

Post-processing



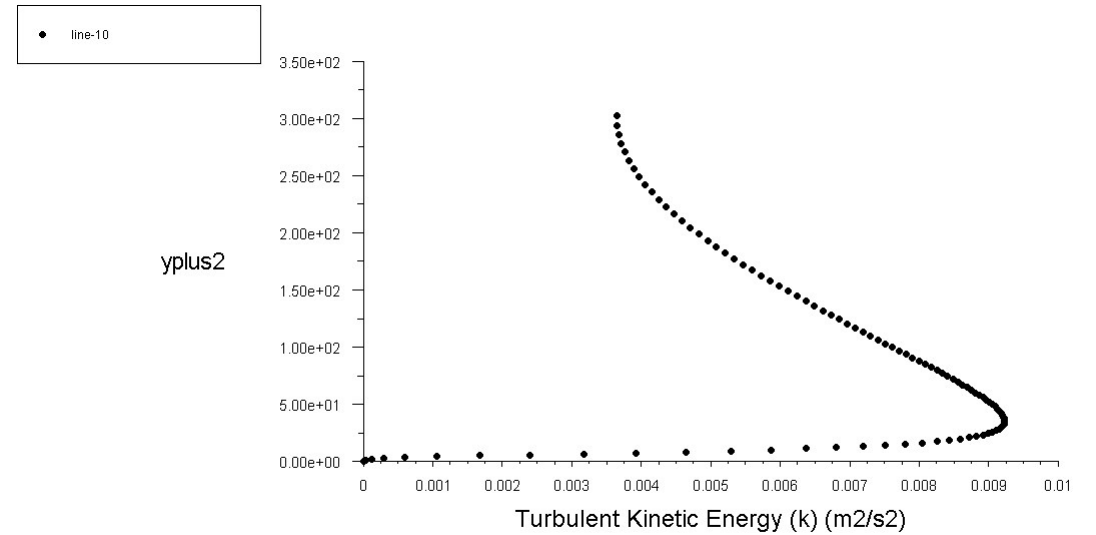
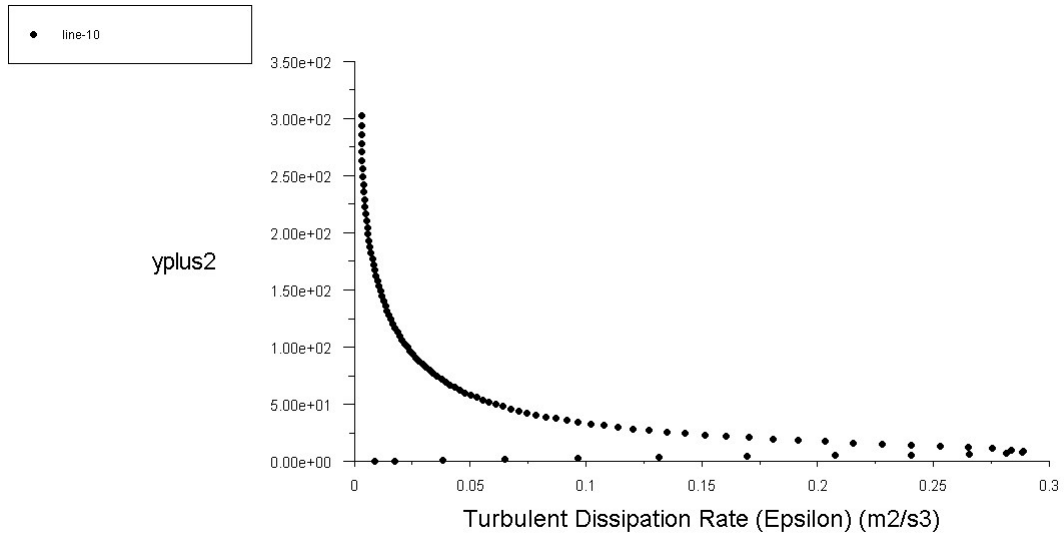
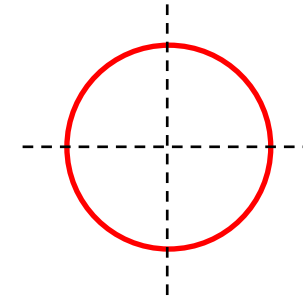
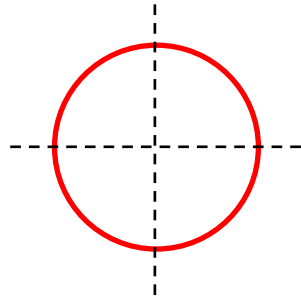
- All sampling is done where the flow is fully developed.

Post-processing



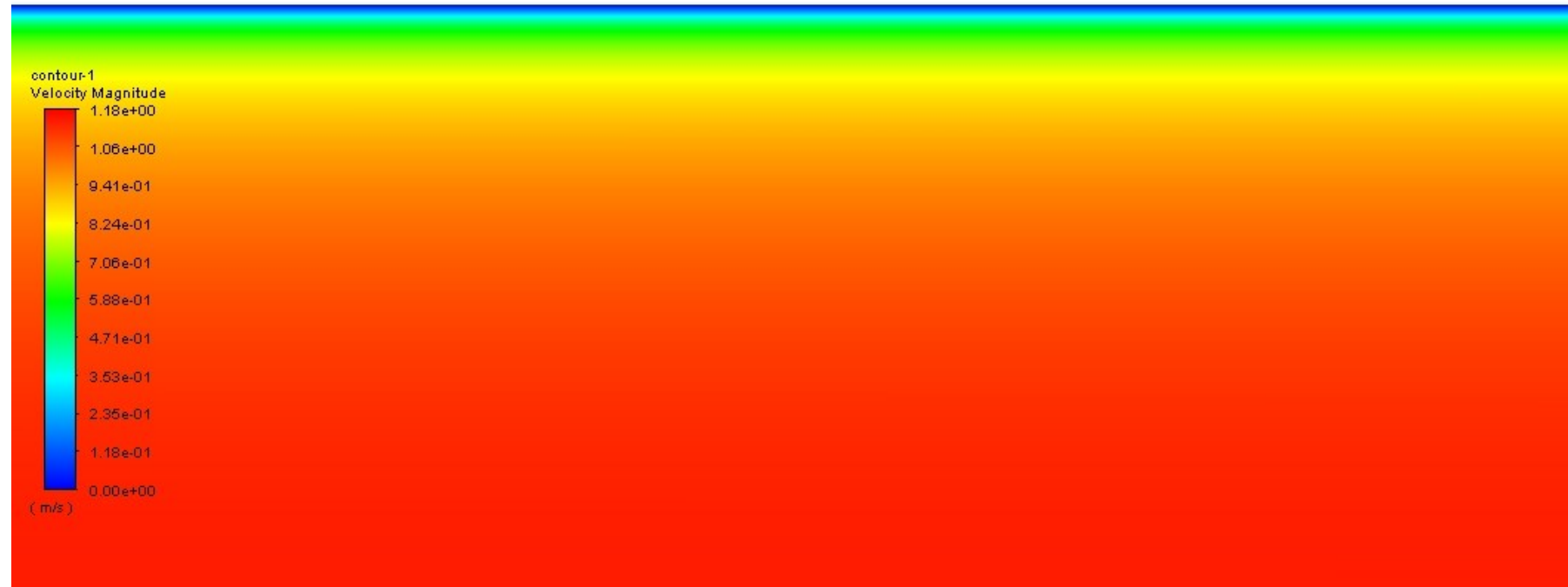
- All sampling is done where the flow is fully developed.

Post-processing



- All sampling is done where the flow is fully developed.

Post-processing



- All sampling is done where the flow is fully developed.