ABSTRACT

Two numerical simulation examples of natural gas transients are studied, based on the conservation equations of fluid mechanics and energy, discribed by the flow parameters, pressure (P) and the speed (V) and temperature (T) in a gas pipeline. The considered exemple is under static pressure, at which two boundary conditions are applied to its downstream end, whith an adiabatic discharge to the atmosphere. Obtained results have shown the parameters variation induced by the conditions of these instantaneous gas output conditions.