

PRESSURE CONTROL IN DIFFERENT SIZE VESSEL

This module aims to control air pressure inside either of two vessels by adjusting airflow out of the vessel while maintaining a steady, user-defined inflow. A compressor increases vessel pressure, displayed on PID Controller #1 (0-10 kg/cm²). When pressure exceeds the set point, the controller opens an outlet valve to release air. Two valve characteristics—linear and equal percent—are selectable, along with high or low vessel capacity. Pressure alarms activate when limits are exceeded, and disturbances can be introduced as Step or Sine Waves. A mimic diagram on the TSSS200 panel visually connects the control system to the process, with real-time trends displayed on the computer.

