

Semi-Automatic Shower and Tub Control System

A control system for controlling the temperature and flow of water to a bathtub and shower which will be readily assembled using standard electrically operated valves. The control includes a pair of electrically-operated-variable-position valves one in each of the hot and cold water pipes for regulating the flow and temperature of the water through the associated pipes. A manifold is provided downstream of the hot and cold water supply pipes. A pair of pipes extend away from the manifold to the tub and to the shower. Each pipe is provided with a normally-closed-electrically-operated-solenoid "on/off" valve. An electrical control circuit, consisting of a HMI panel and a PLC controller, is provided for operating the four valves so that the water flow can be initiated and maintained either to the bathtub faucet or the shower head, and so that the hot and cold flow rates and temperature may be varied.