

A method for preventing a hydraulic impact in pressure pipelines includes air and water supply to the pipeline before termination of operation of the pump unit. Before that one sets the volume of compressed air fed to the pressure pipeline, with termination of water supply. Control of the volume of compressed air during feeding it to pressure pipeline of the pump is carried out, with comparison to the given value; at having achieved correspondence between those values one stops the pump. A pump unit for preventing hydraulic impact in pressure pipelines has a multi-stage pump with suction and pressure pipelines, accumulator, compressor and discharge tank. The pressure pipeline of the pump is connected to the bottom and the upper parts of the accumulator with respective branch pipes, directly behind the pump; the pressure pipeline of the pump has a controlled slider installed between those branch pipes. At that the bottom part of the accumulator is in its turn connected to the discharge pipeline, and all the connected to the accumulator branch pipes have controlled gate valves.