

The invention relates to purifying liquid, in particular water, to remove dispersed impurities by pressure flotation. A device for purifying water by pressure flotation comprises a flotation chamber, into which flocculated water is introduced which is mixed with micro-bubbles formed by a device for mixing water with air, a pressure tank located upstream of the flotation chamber, according to the invention, the device for mixing water with air is mounted between a flotation pump and a pressure tank and consists of a flowmeter for water connected on the water flow with at least one mixer, which is a tube with shut-off valves, with nozzles with flanges for supply and removal of water, inside which a cylindrical filter cartridge with a pipe for compressed air supply is mounted, which is connected on the air flow through a valve and flow meter of gas to a compressor. The invention provides optimal composition of water-air mixture for flotation.