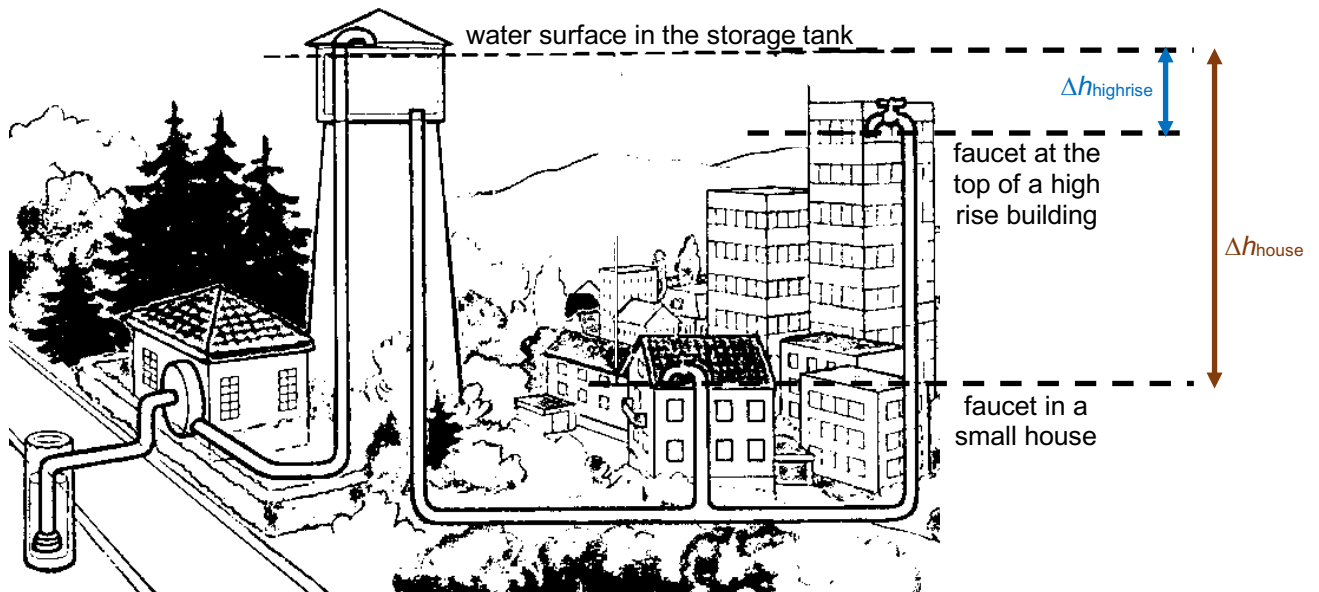


## Pressure at a faucet



picture: Dorn-Bader, Physik in einem Band

The surface of the water in a storage tank is above the water faucet in a kitchen or bathroom.

The difference in water pressure between the faucet and the surface of the water tank only depends on the difference in height – the route of the pipes and its bends can be ignored (connecting vases: the pressure is the same for any given depth below the surface).

$$p_{\text{faucet}} = \rho_{\text{water}} \cdot g \cdot \Delta h$$

Therefore the water pressure at the faucet in the highrise building is smaller than further below, in the small house.