Environmental Hydraulics 2021/2022

Example 3

Water flows steadily from reservoir (1) to reservoir (2) (**Ideal fluid**). Determine the discharge and the mean velocities. Draw energy grade line (**EGL**) and pressure grade line (**PGL**)

Known parameters:
dh = 2 m; h = (5 + 0.2 . **X)** m; H = 3 m; v_0 =0.1 m.s^{-1}; D_1 = 0.225 m; D_2 = 0,2 m; D_3 = 0.25 m; p_{AT} = 1.013 . 10^5 Pa; ρ = 1000 kg.m^{-3};