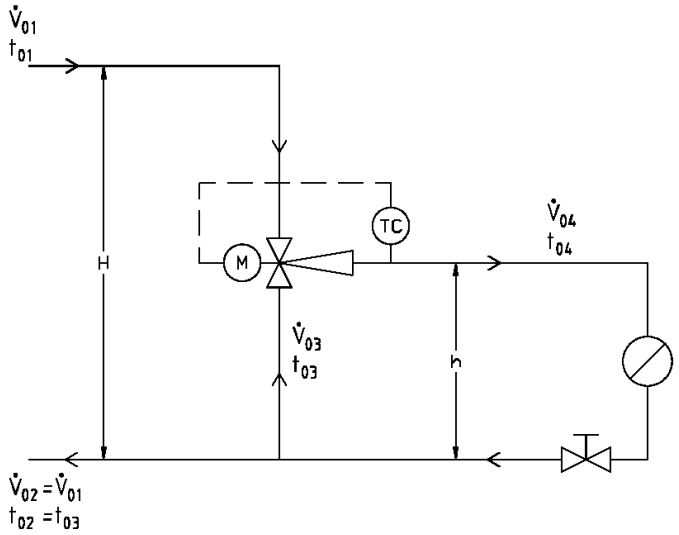
# Berekening straalpomp




$$V01\ (m3/h) = \frac{Q \cdot 3600}{\rho \cdot c \cdot (t_{03} - t_{01})}$$

$$V04\ (m3/h) = \frac{Q \cdot 3600}{\rho \cdot c \cdot (t_{04} - t_{03})}$$

$$u = \frac{t_{01} - t_{04}}{t_{04} - t_{03}} = \frac{V04}{V01} = \frac{V03}{V01}$$

$$\pi = \frac{hmax}{Hmin}$$

Volumestroom V in m3/h
Vermogen Q in kW
Dichtheid $\rho$ in kg/m$^3$
Soortelijke warmte c in kJ/(kg·K)
Temperatuur t in ˚C
Bijmening u
Drukverhouding $\pi$
Max. sec. drukval hmax in bar
Min. Prim. Drukverschil Hmin in bar

$\rho$water = 1000 kg/m$^3$
cwater = 4,18 KJ(kg·K)