

Calculations for Sizing Inlet Wells

Step 6: Calculate the necessary volume of the water retention pond.

Change that form :

$$V_b = \frac{V_r \times (Q_p - Q_m)^2}{Q_p^2} = \frac{T_c \times (Q_p - Q_m)^2}{Q_p}$$

With that one :

$$V_b = \frac{V_r \times (Q_p - Q_m)^2}{Q_p^2} = \frac{3600 \times T_c \times (Q_p - Q_m)^2}{Q_p}$$