

Discharge Through a Bottom Orifice

$$Q_{th} = A_{th} \cdot V_{th} = \frac{\pi}{4} d_o^2 \sqrt{2gH_o} \quad (Q_{th})$$

$$Q_{act} = C_d \cdot C_v \cdot C_c \cdot Q_{th}$$

$$C_d = \frac{Q_{act}}{Q_{th}} < 1.0$$

$$C_v = \frac{V_{act}}{V_{th}} < 1.0 \quad V_{th} = \sqrt{2gH_o}$$

$$C_c = \frac{A_{act}}{A_{th}} < 1.0 \quad A_{th} = \frac{\pi}{4} d_o^2$$

$$C_c \cdot C_v \cdot C_d : H_o \quad Q_{act}$$

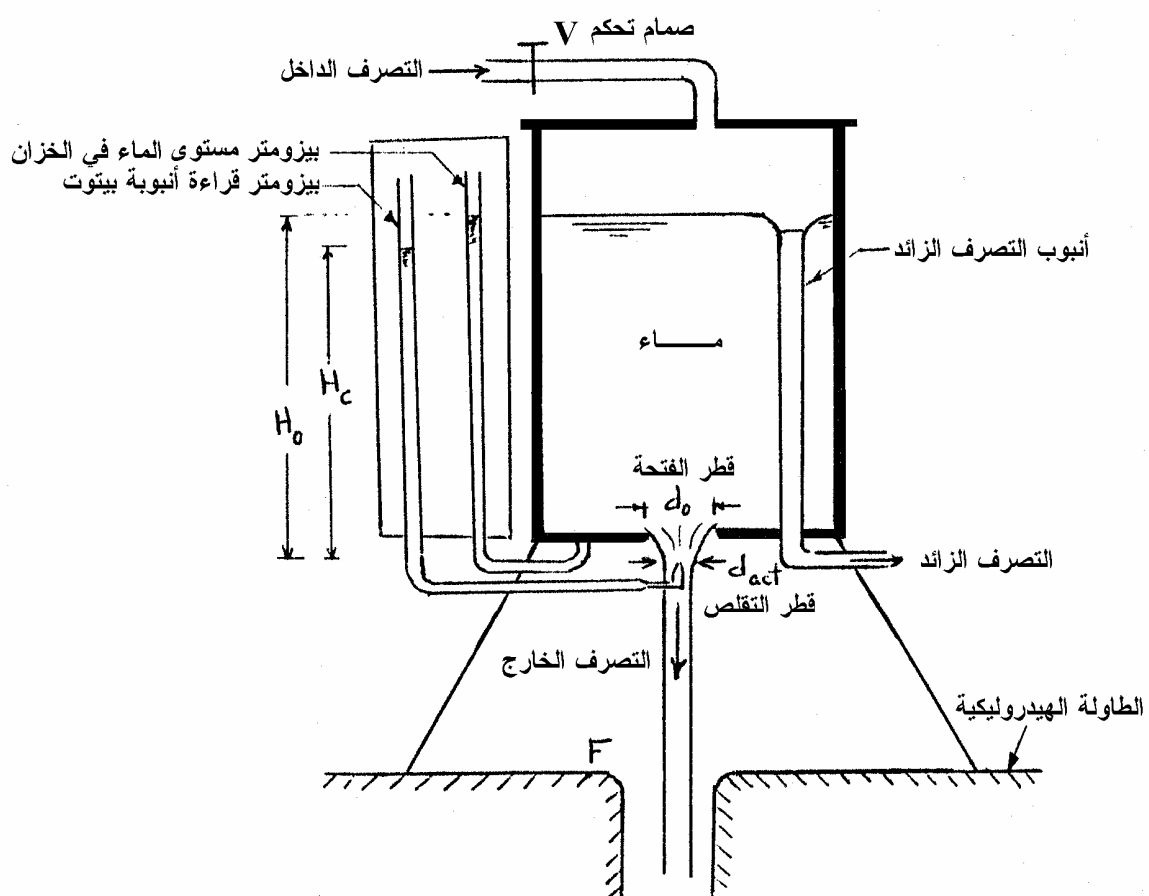
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(Pitot tube)

H_0



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$$Q_{th} = A_{th} \cdot V_{th} = \frac{\pi}{4} d_o^2 \sqrt{2gH_o} = 18.592 \sqrt{H_o}$$
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$$Q_{act} = \frac{V}{T} = \frac{7500}{T}$$

$$C_d = \frac{Q_{act}}{Q_{th}}$$

.() H_c

$$C_v = \frac{V_{act}}{V_{th}}$$

$$C_c = \frac{A_{act}}{A_{th}} = 0.00592 (d_{act})^2$$

: H_o
 () H_o
 : (/)
 : C_d
 : C_v
 () d_{act}
 : C_c
 .() d_{act}

