

BERNOULLI'S THEOREM

5.0 RESULT

Volume = _____

Table 1 Values of C_d from experiment

Time to fill the tank, t (s)	Peizometer head at tube A, h_1 (mm)	Peizometer head at tube D, h_2 (mm)	Actual discharge, $Q=m^3/s$	(h_1-h_2) (m)	(h_1-h_2) ^{0.5} (m)	C_d

Table 2 Ideal pressure distribution as a fraction of velocity head at throat

Peizometer tube number	Distance from datum, (mm)	Diameter of cross section, d_n (mm)	d_2 / d_n	Area, A (m)	(A_2 / A_n) ²	(A_2 / A_1) ² - (A_2 / A_n) ²
A (1)						
B						
C						
D (2)						
E						
F						
G						
H						
J						
K						
L						

Table 3 Measurement of pressure distribution along Venturi meter as a fraction of velocity head at throat

Peizometer tube number	Q =			Q =		
	h_n (mm)	$h_n - h_1$ (m)	$\frac{(h_n - h_1)}{(v_2^2/2g)}$	h_n (mm)	$h_n - h_1$ (m)	$\frac{(h_n - h_1)}{(v_2^2/2g)}$
A (1)						
B						
C						
D (2)						
E						
F						
G						
H						
J						
K						
L						

Peizometer tube number	Q =			Q =		
	h_n (mm)	$h_n - h_1$ (m)	$\frac{(h_n - h_1)}{(v_2^2/2g)}$	h_n (mm)	$h_n - h_1$ (m)	$\frac{(h_n - h_1)}{(v_2^2/2g)}$
A (1)						
B						
C						
D (2)						
E						
F						
G						
H						
J						
K						
L						

