

CE3105 Mechanics of Fluids Laboratory
Department of Civil Engineering
Texas Tech University

Experiment: Flow Measurement Apparatus - Data Sheet

Date of Experiment:

Name:

Experimental Data:

Temperature of water, $T = 19^\circ$ celsius

Water density, $\rho =$ (lb/ft³)

Gravity, $g = 32.2$ (ft/s²)

		Test Numbers				
		1	2	3	4	5
Manometer Levels (mm)	A	270	278	290	314	355
	B	266	268	272	280	294
	C	270	276	286	309	348
	D	270	276	286	310	350
	E	270	276	288	312	354
	F	266	266	270	275	286
	G	266	268	274	282	296
	H	266	268	272	280	295
	I	165	168	172	180	194
Rotameter Level (mm)		14	29	45	66	95
Water Volume (mL)		330	555	670	1025	1330
Time (seconds)		5.08	5.05	5.08	5.32	5.3
Digital flow rate 1 (L/min)		4.4	6.59	9.19	12.79	18.18
Digital flow rate 2 (L/min)		4.4	6.79	9.39	12.99	18.38

Instructor's Signature