

CE3105 Mechanics of Fluids Laboratory, Texas Tech University

Experiment: Friction Loss in a Pipe - Data Sheet

Date of Experiment:, Name:.....

Experimental Data:

Temperature of water, $T = 18$ °celsius , Water density, $\rho =$ (slugs/ft³) , Gravity, $g = 32.2$ (ft/s²)

Lower Flow Rates:

Volume	Time	Flow Rate, Q	Flow Velocity, u	h_1	h_2	Δh	i	log i	log u	Re	f
27 ml	10.6 s			345 mm	266 mm						
41 ml	10.08 s			351 mm	252 mm						
49 ml	10.4 s			360 mm	240 mm						
54 ml	9.9 s			385 mm	204 mm						
62 ml	10.06 s			402 mm	182 mm						

Higher Flow Rates:

Volume	Time	Flow Rate, Q	Flow Velocity, u	Δh	i	log i	log u	Re	f
230 ml	10.42 s			2.32 m					
210 ml	10.38 s			2.18 m					
200 ml	9.85 s			1.97 m					
190 ml	10.07 s			1.75 m					
170 ml	9.9 s			1.31 m					

Instructor's Signature