

An automated device to measure a fixed volume of a liquid

Maduranga U.G.D.¹, Abeywicrama S.S.¹, Dharmarathna W.G.D.¹ and
Ranatunga E.M.^{1*}

Department of Physics, University of Ruhuna, Wellamadama, Matara, Sri Lanka.

A simple automated device has been designed and constructed in order to release a fixed volume of a liquid from a container. This preliminary model designed to release a fixed volume of liquid has been tested with water. The results indicate that the device could release 750 ml of water in about 20 seconds with an accuracy of ± 0.05 ml. The device could be used for other liquids such as kerosene oil and coconut oil, which are sold at small scale shops. However, the rate of release of the liquid would depend on the viscosity of the liquid. With suitable modifications, the device could be used in large scale industries such as bottling of any liquid. The main advantage is that the device could be easily manufactured locally at low cost.

Keywords: *Fixed volume, Lower viscosities, Automated device*

*Corresponding Author: ranatung@phy.ruh.ac.lk