

## ABSTRAK

Penelitian ini dilakukan untuk mengidentifikasi performansi pompa terhadap variasi water pressure tank secara eksperimental. Pada penelitian ini peneliti juga memvariasikan bukaan katup yaitu 0%, 50%, 100%. Hasil penelitian menunjukkan bahwa *water pressure tank* 19 liter memiliki nilai debit, tekanan, dan tinggi tekan lebih tinggi dibandingkan dengan *non water pressure tank* dan *water pressure tank* 2 liter dengan nilai debit tertinggi pada bukaan katup 100% sebesar 1,64 m/s dan nilai tekanan tertinggi pada bukaan katup 0% sebesar 260000 Pa serta nilai tinggi tekan tertinggi pada bukaan katup 0% sebesar 26m.

Kata Kunci : *water pressure tank*, pompa, fluida

## **ABSTRACT**

*This research was conducted to identify pump performance against variations in water pressure tanks experimentally. In this study the researchers also varied the valve opening, namely 0%, 50%, 100%. The results showed that the 19 liter water pressure tank had higher discharge, pressure and head values compared to non water pressure tanks and 2 liter water pressure tanks with the highest discharge value at 100% valve opening of 1.64 m/s and a the highest pressure at 0% valve opening is 260000 Pa and the highest pressure head at 0% valve opening is 26m.*

*Keywords: water pressure tank, pump, fluids*