

PHYZLAB SPRINGBOARD: FUN WITH THE EYEWASH



1. How long does it take the eyewash to fill a 5-gallon bucket?
2. Determine the flow rate of water from the eyewash in m^3/s .
3. When aimed at a 45° angle, what is the height of the eyewash's water fountain (above the nozzle)?
4. Determine the speed of the water as it emerges from the eyewash nozzle.
5. What is the total area of all the holes in the eyewash nozzle?
6. Estimate the cross-sectional area of the inside of the eyewash hose/pipe after measuring its outer circumference.
7. If the eyewash head were removed and the water were allowed to shoot straight up out of the hose, how high would it rise above the opening?