

3 Water is ejected from the nozzle of a hose at a speed of 2.0 m s^{-1} . The density of water is 1000 kg m^{-3} and the diameter of the nozzle is 0.50 cm .

What is the force exerted on the nozzle by the ejected water?

A 0.039 N

B 0.079 N

C 0.31 N

D 7.9 N