

- 4** Water is ejected at a speed of 0.5 m s^{-1} onto a wall from the nozzle of a hose with a diameter of 0.01 m . The density of water is 1000 kg m^{-3} .

If the water does not rebound, what is the force exerted by the water on the wall?

- A** $5.0 \times 10^{-3} \text{ N}$ **B** $2.0 \times 10^{-2} \text{ N}$ **C** $2.5 \times 10^{-2} \text{ N}$ **D** $7.9 \times 10^{-2} \text{ N}$