14 A cylinder contains a volume of $0.012\,m^3$ of gas at a pressure of $1.0 \times 10^5\,Pa$.

400 J of work is done **on** this gas, with its pressure remaining constant throughout.

What is the final volume of the gas?

A $0.0040\,m^3$ **B** $0.0080\,m^3$ **C** $0.016\,m^3$ **D** $0.020\,m^3$