

- 17** A piston in a gas supply pump has an area of 400 cm^2 . The pump moves the gas against a fixed pressure of 3000 Pa .

During part of its stroke, the piston moves a distance of 25 cm in one direction. How much work is done by the piston during this movement?

- A** 30 J **B** $3.0 \times 10^3 \text{ J}$ **C** $3.0 \times 10^5 \text{ J}$ **D** $3.0 \times 10^7 \text{ J}$