

19 A piston in a gas supply pump has an area of 400 cm^2 and it moves a distance of 25 cm during one stroke.

The pump moves the gas against a fixed pressure of 3000 Pa.

How much work is done by the piston during one stroke?

A 30 J

B $3.0 \times 10^3 \text{ J}$

C $3.0 \times 10^5 \text{ J}$

D $3.0 \times 10^7 \text{ J}$

20 A transformer has the following input and output