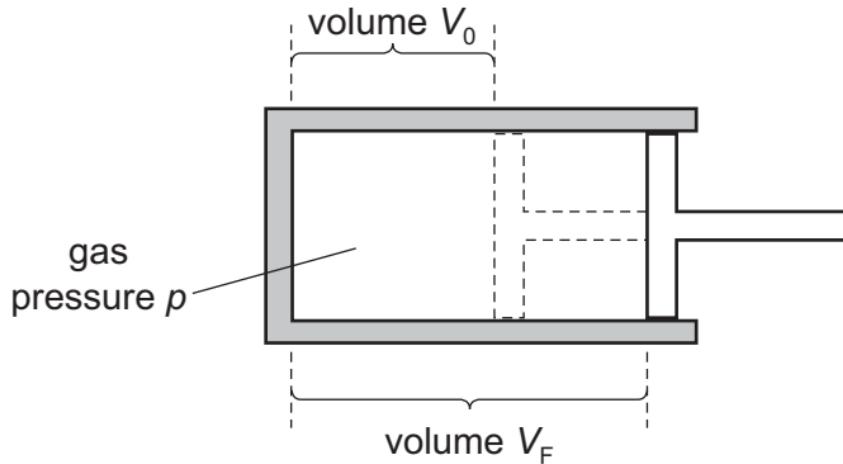


16 Some gas in a cylinder is supplied with thermal energy q .

The gas does useful work in expanding at constant pressure p from volume V_0 to volume V_F , as shown.



Which expression gives the efficiency of this change?

A $\frac{pV_0}{q}$

B $\frac{V_F}{V_0 q}$

C $\frac{p(V_F - V_0)}{q}$

D $\frac{(V_F - V_0)}{V_0 q}$

17 The power P required to move an object through a medium at constant speed depends on the