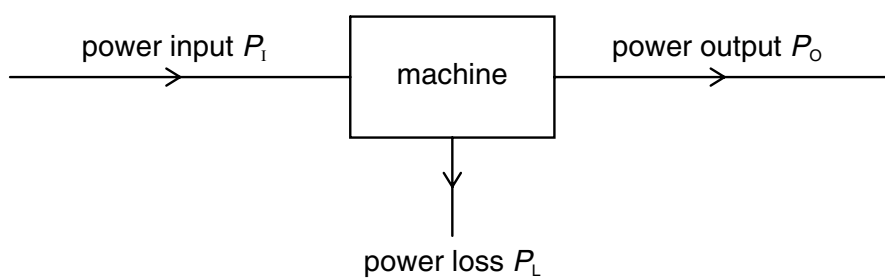


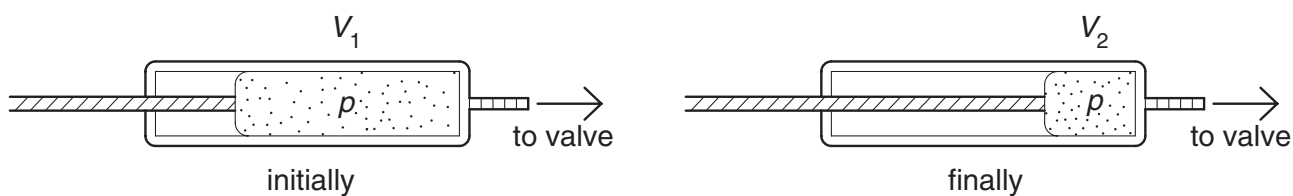
- 16 Power is transferred through a machine as shown.



What is the efficiency of the machine?

- A** $\frac{P_I}{P_O + P_L}$
 B $\frac{P_L}{P_I}$
 C $\frac{P_L}{P_O}$
 D $\frac{P_O}{P_I}$

- 17 Air in a bicycle pump is forced through a valve at a constant pressure p . In one stroke of the pump the volume of air in the pump chamber is reduced from V_1 to V_2 .



What is the work done on this air in one stroke of the pump?

- A** $\frac{p(V_1 + V_2)}{2}$
B $p(V_1 + V_2)$
C $p(V_1 - V_2)$
D pV_1