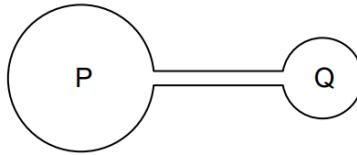


- 12 Two flasks P and Q contain an ideal gas and are connected with a tube of negligible volume compared to that of the flasks. The volume of P is triple the volume of Q.



P is held at a temperature of 200 K and Q is held at a temperature of 600 K.

What is the $\frac{\text{mass of gas in P}}{\text{mass of gas in Q}}$?

A $\frac{1}{9}$

B $\frac{1}{3}$

C 3

D 9