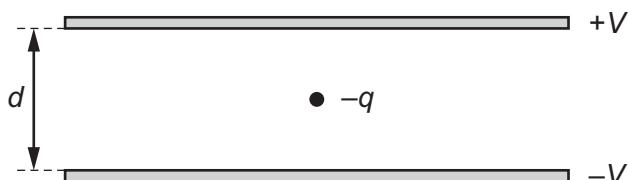


- 32 An oil droplet has charge $-q$ and is situated between two horizontal metal plates as shown in the diagram.



The separation of the plates is d . The droplet is observed to be stationary when the upper plate is at potential $+V$ and the lower plate is at potential $-V$.

For this to occur, what is the weight of the droplet?

A $\frac{Vq}{d}$

B $\frac{2Vq}{d}$

C $\frac{Vd}{q}$

D $\frac{2Vd}{q}$