

- 9 A diver watches an air bubble as it rises to the surface in water. The weight of the air in the bubble is negligible. The volume and speed of ascent of the bubble increase as it rises. Two forces, upthrust and viscous drag, act on the bubble.

Which changes occur in these forces as the bubble rises?

| | upthrust | viscous drag |
|---|-----------|--------------|
| A | decreases | decreases |
| B | increases | no change |
| C | increases | increases |
| D | no change | decreases |