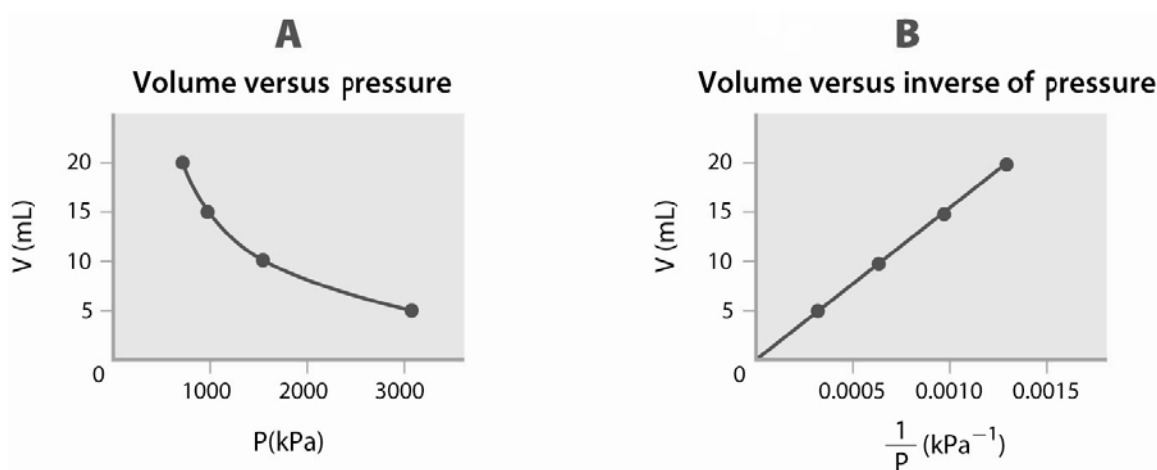# Boyle's Law

The volume of a fixed amount of gas at a constant temperature is inversely proportional to the applied (external) pressure on the gas.

$$P_1V_1 = P_2V_2$$

A

Volume versus pressure

B

Volume versus inverse of pressure

The graph for volume versus pressure (A) shows an inverse relationship. When you plot volume versus the inverse of pressure (B), you get a straight line.