18 A cylinder, closed by a moveable piston, contains an ideal gas at 50 °C and atmospheric pressure 1.0×10^5 Pa. The piston is moved out until the volume of the gas doubles and the temperature falls to 25 °C.

What is the new pressure of the gas in the cylinder?

A 1.6×10^4 Pa

B 2.5×10^4 Pa

C 4.6×10^4 Pa

D 1.9×10^5 Pa