

Question:

What change in pressure occurs in a party balloon that is squeezed to one third its volume with no change in temperature?

Solution:

In accordance with Boyle-Marriott law  $p_1 V_1 = p_2 V_2$ , respectively  $p_2 = p_1 \frac{V_1}{V_2} = 3p_1$ , i.e. the pressure will increase in three times.

The answer:

The pressure will increase in three times.

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