

Velocity ACT

A sound wave having frequency f_0 , speed v_0 and wavelength λ_0 , is traveling through air when it encounters a large helium-filled balloon. Inside the balloon the frequency of the wave is f_1 , its speed is v_1 , and its wavelength is λ_1 . Compare the speed of the sound wave inside and outside the balloon.

1. $v_1 < v_0$
2. $v_1 = v_0$
3. $v_1 > v_0$ ← correct

