

83. The absolute pressure is

$$\begin{aligned} p &= p_0 + \rho gh \\ &= 1.01 \times 10^5 \text{ N/m}^2 + (1.03 \times 10^3 \text{ kg/m}^3)(9.8 \text{ m/s}^2)(150 \text{ m}) = 1.62 \times 10^6 \text{ Pa} . \end{aligned}$$