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Chapter 1

1.1 Since
$$pV = mRT$$
, $\frac{V_1}{V_1} = \frac{T_1p_2}{T_2p_1}$

$$\therefore V_1 = \frac{\pi}{6} (20 \text{ m})^3 \frac{288.15}{233.15} \frac{1.1}{101.3} = 56.2 \text{ m}^3$$

1.2
$$\varrho = \frac{p}{RT} = \frac{1.4 \times 10^5 \text{ N} \cdot \text{m}^{-2}}{287 \text{ J} \cdot \text{kg}^{-1} \cdot \text{K}^{-2} \times 323.15 \text{ K}} = 1.51 \text{ kg} \cdot \text{m}^{-3}$$

1.3
$$K = \varrho \frac{\partial p}{\partial \varrho}$$
 Assume K constant. Then $\ln(\varrho/\varrho_0) = \frac{p - p_0}{K}$

$$\therefore \varrho = \varrho_0 \exp\left(\frac{p - p_0}{K}\right) = 1025 \text{ kg} \cdot \text{m}^{-3} \exp\left(\frac{81.7 \times 10^6}{2.34 \times 10^9}\right)$$

$$= 1061 \text{ kg} \cdot \text{m}^{-3}$$

1.4
$$\rho = \frac{\mu}{\nu} = \frac{2 \times 10^{-5} \text{ N} \cdot \text{s} \cdot \text{m}^{-2}}{15 \times 10^{-6} \text{ m}^2 \cdot \text{s}^{-1}} = 1.333 \text{ kg} \cdot \text{m}^{-3}$$

$$R = \frac{\rho}{\rho T} = \frac{1.013 \times 10^5 \text{ N} \cdot \text{m}^{-2}}{1.333 \text{ kg} \cdot \text{m}^{-3} \times 293.15 \text{ K}} = 259.2 \text{ J} \cdot \text{kg}^{-1} \cdot \text{K}^{-1}$$

$$\therefore M = \frac{8310}{259.2} = 32.06$$

1.5
$$\mu = v_Q = 400 \times 10^{-6} \text{ m}^2 \cdot \text{s}^{-1} \times 850 \text{ kg} \cdot \text{m}^{-3} = 0.34 \text{ Pa} \cdot \text{s}$$

Velocity gradient $= \frac{0.12 \text{ m} \cdot \text{s}^{-1}}{0.1 \times 10^{-3} \text{ m}} = 1200 \text{ s}^{-1}$

Area $= \pi 0.2 \times 1.2 \text{ m}^2 = 0.754 \text{ m}^2$

Force $= 0.754 \text{ m}^2 \times 0.34 \text{ Pa} \cdot \text{s} \times 1200 \text{ s}^{-1} = 307.6 \text{ N}$

Massey Mechanics Of Fluids Solution Manual

LL Leslie

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