12.30

12. 30 Water at 40 °C is pumped from an open tank through 200 m of 50-mm-diameter smooth horizontal pipe as shown in Fig. P12.30 and discharges into the atmosphere with a velocity of 3 m/s. Minor losses are negligible. (a) If the efficiency of the pump is 70%, how much power is being supplied to the pump? (b) What is the NPSH_A at the pump inlet? Neglect losses in the short section of pipe connecting the pump to the tank. Assume standard atmospheric pressure.

(Z)

(3)

where $p_1 = p_2 = 0$, $V_1 = 0$, $V_2 = 3$ m/s, $E_1 = 3$ m, and $E_2 = 0$. Thus, Eq.(1) becomes $E_1 + h_p = \frac{V_2}{2}(1 + f \frac{E}{6})$

ALSO,

$$R = \frac{VD}{Z} = \frac{(3 \frac{d}{2})(0.05m)}{(4.580 \times 10^{-7} \frac{d}{2})} = 2.28 \times 10^{5}$$

and from Fig. 8.23 for smooth pipe f = 0.0152. Thus, from Eq.(2) $h_p = \frac{(3\#)^2}{2/9912} \int \left[1 + 0.0152 \left(\frac{200 \text{ m}}{0.05 \text{ m}}\right)\right] - 3 \text{ m} = 25.3 \text{ m}$

Hence.

Power gained by fluid =
$$3Q h_p$$

= $(9.731 \times 10^{3} \frac{N}{m} 3) (\frac{\pi}{4}) (0.05 m)^2 (3 \frac{m}{3}) (25.3 m)$
= $1.45 \times 10^{3} \frac{N}{m} = 1.45 \pm W$

and

Power supplied to pump = Power gained by fluid

$$= \frac{1.45 \text{ kW}}{0.7} = \frac{2.07 \text{ kW}}{0.7}$$

(b) From Eq. 12.24

where & and Vs refer to the pressure and velocity at the pump inlet, respectively. Also,

\$\frac{\pi}{2} + \frac{\varphi_2}{2} + \pi_1 = \frac{\pi_5}{2} + \frac{\varphi_5}{2} + \pi_5 + \hat{h_L}\$

So that with \$\pi_1 = \partial_{\pi_1} \pi_1, \varphi_1 = 0, \varphi_5 = 0, \varphi_1 \pi_1 \pi_1 = 0

\[
\left\]

\$\frac{\pi}{2} + \frac{\varphi_2}{2} + \pi_5 + \hat{h_L} \\
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\$\frac{\pi_1}{2} + \frac{\varphi_2}{2} + \pi_5 + \hat{h_L} \\
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\pi_4 + \pi_5 + \pi_5 + \pi_5 + \pi_5 + \hat{h_L} \\
\pi_5 + \p

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