

1.31

A hydraulic lift has a maximum fluid pressure of 500 kPa. What should the piston-cylinder diameter be so it can lift a mass of 850 kg?

Solution:

With the piston at rest the static force balance is

$$F \uparrow = P A = F \downarrow = mg$$

$$A = \pi r^2 = \pi D^2/4$$

$$PA = P \pi D^2/4 = mg \Rightarrow D^2 = \frac{4mg}{P \pi}$$

$$D = 2 \sqrt{\frac{mg}{P \pi}} = 2 \sqrt{\frac{850 \text{ kg} \times 9.807 \text{ m/s}^2}{500 \text{ kPa} \times \pi \times 1000 \text{ (Pa/kPa)}}} = \mathbf{0.146 \text{ m}}$$

Borgnakke And Sonntag Solution Manual Ch9

Yan Bai



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