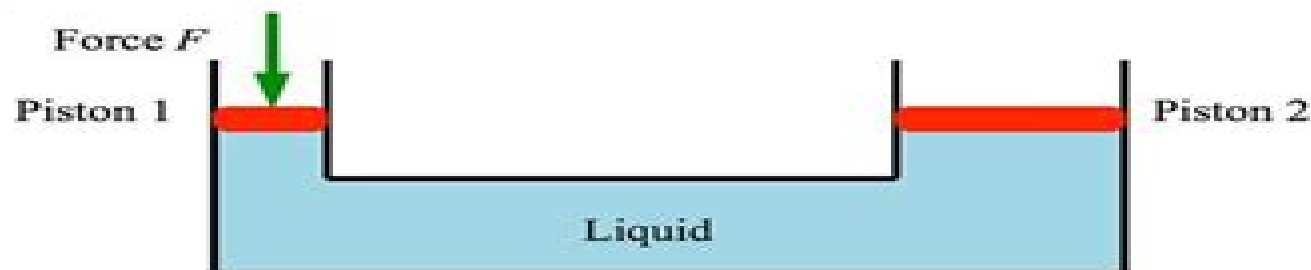


Question:



A hydraulic press is built as shown in the side view above, with a closed container filled with a non-compressible liquid. A circular movable piston on either side of the container allows force to be exerted on the liquid. In the diagram above Piston 1 has a diameter d and Piston 2 has a diameter $2d$. When a downward force F is applied to Piston 1

- a. An equal force F is applied upward to Piston 2 because of Newton's Third Law of equal and opposite forces.
- b. An equal force F is applied upward to Piston 2 because the pressure transmitted through the fluid is the same throughout.
- c. A smaller force $F/2$ is applied to Piston 2 because the diameter of that piston is greater.
- d. A greater force $2F$ is applied to Piston 2 because the diameter of that piston is greater.
- e. A greater force $4F$ is applied to Piston 2 because the diameter of that piston is greater.

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Answer:

The correct answer is *e*. The downward force F causes a change in pressure to be transmitted throughout the fluid based on $Pressure = \frac{Force}{Area}$. This change in pressure is transmitted equally throughout the liquid, with a resulting upward pressure on Piston 2. The Force applied on Piston 2 can be determined by setting the Pressures applied by the liquid on each piston as equal:

$$\frac{Force1}{Area1} = \frac{Force2}{Area2}$$

$$Force2 = Force1 \cdot \frac{Area2}{Area1} = Force1 \cdot \frac{\pi(2r)^2}{\pi r^2}$$

$$Force2 = Force1 \cdot 4$$

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