ASG v2   EX 2.1   (water breaking)

$D = 30\text{ cm}$
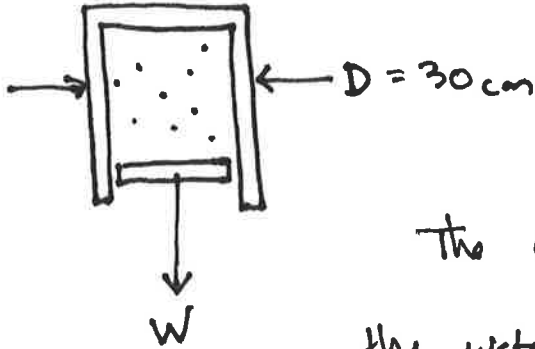
W

The weight W required to break the water column (creating a vacuum, so to speak) is 14 pounds/square inch times the area of the piston. (We are neglecting the weight of the water itself.)

$$W = \frac{14\text{ lbs}}{\text{in}^2} \times \left(\pi \cdot 15\text{ cm}^2\right)$$

$$= 1530\text{ lbs}$$