

1. In the diagram below h is 15 mm Hg.
- What is the pressure of the gas sample in mm Hg?
 - What is the pressure of the gas sample in kPa?

DATA TABLE	
$h = 15 \text{ mm Hg}$	$P_{\text{Gas Sample}} = ?$

*This is a close-ended manometer problem. $\therefore$ The height of the Hg is the gas pressure:
 $Pressure_{\text{Gas Sample}} = \text{Height of the Hg}$*

- A. What is the pressure of the gas sample in mm Hg?

$$P_{\text{Gas Sample}} = 15 \text{ mm Hg}$$

- B. What is the pressure of the gas sample in kPa?

$$Pressure_{\text{Gas Sample}} = (15 \text{ mm-Hg}) \left(\frac{101 \text{ kPa}}{760 \text{ mm-Hg}} \right)$$

$$P_{\text{Gas Sample}} = 2.0 \text{ kPa}$$

- OR -

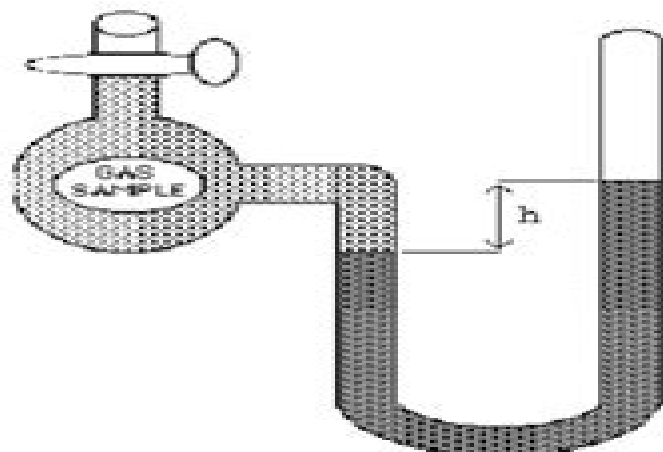
$$\frac{760 \text{ mm-Hg}}{101 \text{ kPa}} = \frac{15 \text{ mm-Hg}}{x}$$

$$P_{\text{Gas Sample}} = 2.0 \text{ kPa}$$

- OR -

$$\frac{760 \text{ mm-Hg}}{15 \text{ mm-Hg}} = \frac{101 \text{ kPa}}{x}$$

$$P_{\text{Gas Sample}} = 2.0 \text{ kPa}$$



Manometer Practice Problems With Answers

Wolfgang Guggemos



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