



3-a-1

Heat is added to water at a constant pressure of $P = 25000 \text{ kPa}$. A phase transition takes place. From a saturated liquid ($x = 0$), the water is heated to a point where it becomes a saturated vapor ($x = 1$).

What image in the P-T diagram corresponds to this process?

Answer: Image A

Under the liquid vapor dome both the temperature and pressure are constants. Option A thus gives the best visual representation of this process in a P-T diagram.