3-a-2

Heat is added to water at a constant pressure of $P = 25000\ kPa$. A phase transition takes place. From a saturated liquid $(x = 0)$, state 1, the water is heated to a point where it becomes a saturated vapor $(x = 1)$, state 2.

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

Answer: Image B

The process takes place at a constant pressure. When transitioning from a saturated liquid to a saturated vapor, the specific volume increases. You can check this in table 4 and 5 of the book.