HAG, Chapter I, Section 4, Exercise 10:

Let Y be the cuspidal cubic curve $y^2 = x^3$ in $\mathbf{A}^2$. Blow up the origin $O = (0,0)$, let E be the exceptional curve, and let $\tilde{Y}$ be the strict transform of Y. Show that E meets $\tilde{Y}$ in one point, and that $\tilde{Y} \cong \mathbf{A}^1$. In this case the morphism $\varphi\colon \tilde{Y} \to Y$ is bijective and bicontinuous, but it is not an isomorphism.