ABSTRACT. We construct new families of Kähler-Ricci solitons on complex line bundles over \mathbb{CP}^{n-1} , $n \geq 2$. Among these are examples whose initial or final condition is equal to a metric cone $\mathbb{C}^n/\mathbb{Z}_k$. We exhibit a noncompact Ricci flow that shrinks smoothly and self-similarly for t < 0, becomes a cone at t = 0, and then expands smoothly and self-similarly for t > 0; this evolution is smooth in space-time except at a single point, at which there is a blowdown of a \mathbb{CP}^{n-1} . We also construct certain shrinking solitons with orbifold point singularities.