

### Abstract

This water pumping and return unit comprises: a housing that has a flow path through which pumped water from a well and return water to the well flow, and a diverging flow path; a first flange that is provided at a first end of the housing and has an opening on one end side of the flow path; a second flange that is provided at a second end of the housing and has an opening on the other end side of the flow path; a diverging flow path that branches from the flow path in the housing and communicates with the outside of the housing; and a water injection valve mechanism that is capable of opening and closing the diverging flow path, wherein the diverging flow path branches from the flow path in the housing and communicates with the outside of the housing, and the water injection valve mechanism is accommodated in a region in which a surface connecting the outer periphery of the first flange and the outer periphery of the second flange constitutes a peripheral surface.