

### **Air Release Valve**

When air is trapped in the pump casing because of a blockage in the discharge line or valve failure, it may obstruct proper pumping even if the pump operates normally. This phenomenon is called an “airlock.”

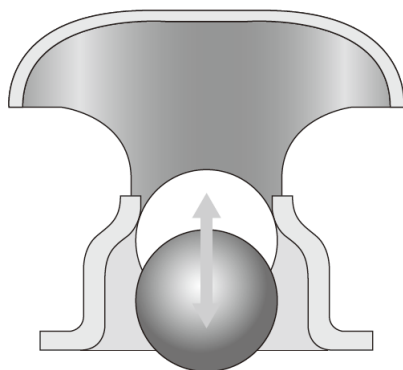
To prevent air-locks, Tsurumi provides an air release valve on pumps with a spiral casing or water jacket. As air exits the jacket, the ball stays at the bottom, but when the pumped water starts to flow, it closes the outlet because of its buoyancy.

### **Air Release Valve Fitted on Pump Casing**



Most pumps that do not have a water jacket are equipped with this type of valve. The VANCS series has this feature inside the casing and the ball is made of glass. Depending on the application, there are valves made of plastic or stainless steel, which are screwed into the casing.

### **Air Release Valve Fitted on Water Jacket**



Pumps having a water jacket are equipped with this valve. The ball is made of steel or rubber and is located at the top of the water jacket.

This is used in construction pumps such as GSZ and GPN, and industrial pumps such as large B and BZ.