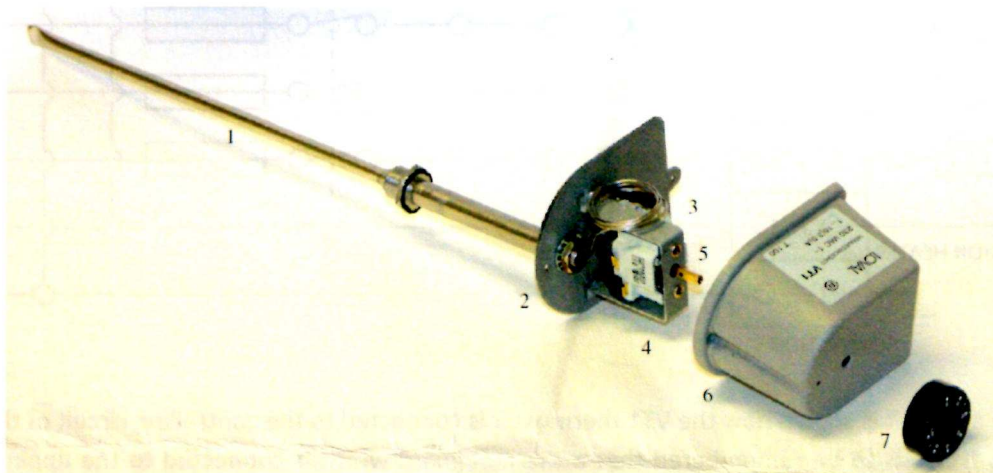


LOVAL VT1 THERMOSTAT

ASSEMBLY AND INSTALLATION INSTRUCTION

1. STRUCTURE

VT1 is equipped with a single phase temperature controller. The structure of the device is shown in the picture below:



- | | | |
|---------------------------|---------------------------|--------------------|
| 1. Sensor protection tube | 4. Controller frame | 7. Adjustment knob |
| 2. The base of the cover | 5. Temperature controller | |
| 3. Connection strip | 6. Cover | |

2. ASSEMBLY AND INSTALLATION

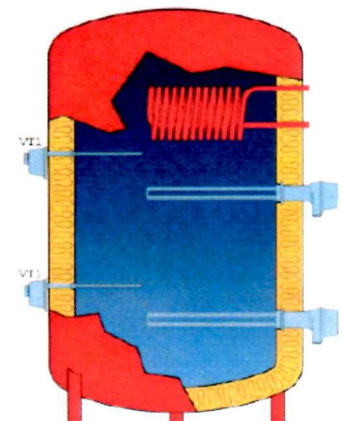
The protection tube is threaded G ½ conduit and in the other end there is a 19 mm hexagonal fitting. From the fitting, the protection tube can be installed on a side of an accumulator by screwing. Before installation, make sure (by using a glue for example) that the seal is centered on the seal surface.

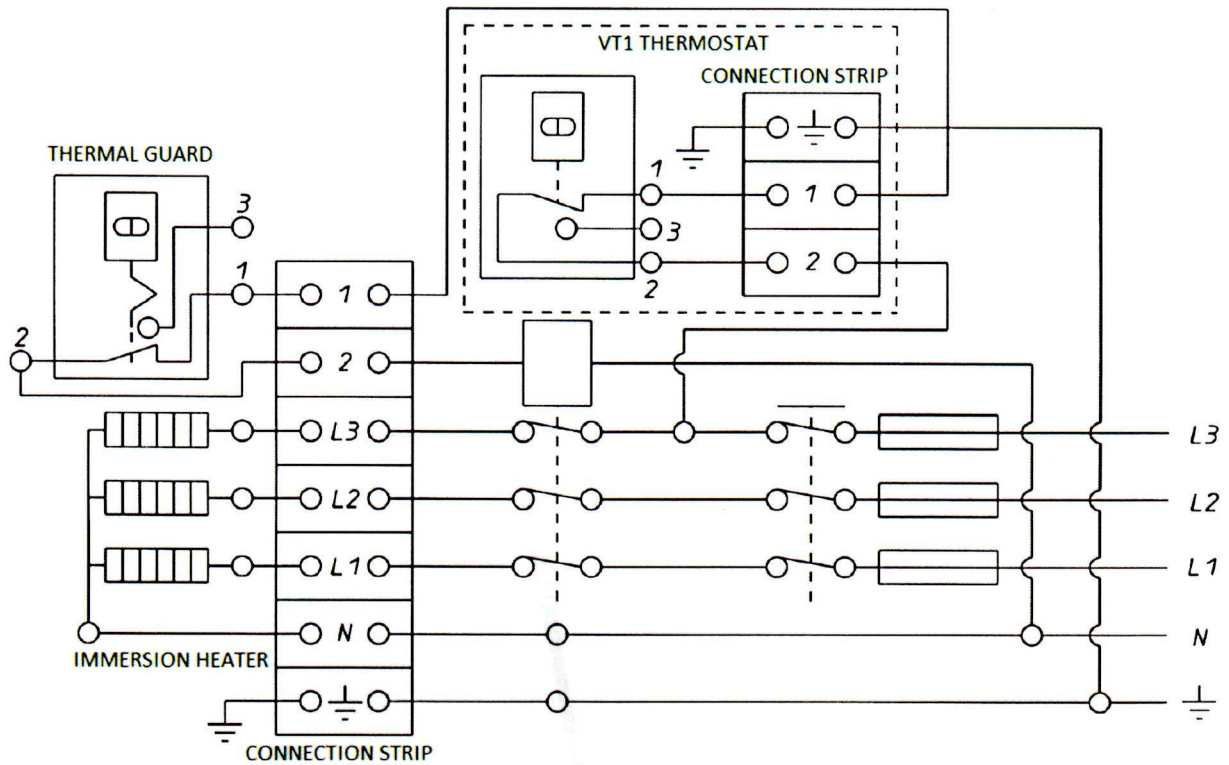
3. INSTALLATION TO AN ACCUMULATOR

In an accumulator, the resistors are usually located on different heights. Both, upper and lower resistors have their own VT1 controllers.

Lower resistors are used to store the heat energy usually during the night time. The controller is normally adjusted to 85...90°C temperature.

The upper resistor is needed especially during the winter time when extra energy is needed. It is also used to help to warm the water inside of a DHW coil. The upper resistor controller is normally adjusted to 60...70°C. This is enough to keep the domestic hot water warm but the energy consumption during the daytime low.





In the picture above, it is shown how the VT1 thermostat is connected to the controlling circuit of the upper resistor. Thus it needs to be remembered that a thermal guard which is connected to the upper resistor also needs to switch off the lower resistor in case of overheating.