


## INSTALLATION INSTRUCTIONS

### **3/4" AND 1" GURUPC® RAIL PASSENGER CAR FREEZE PROTECTION DRAIN VALVES**

1. Make sure to install valve with correct flow direction as marked on valve body.
2. Install valve so outlet is well pitched to drain.
3. Use moderate amount of pipe thread sealant or tape but take care not to get any inside valve.
4. If discharge piping from valve is required, do not use reduced size piping or tubing since this becomes a serious freeze hazard that can freeze up even as the valve operates normally. Non-metallic discharge pipe is preferred and as large a size as possible.
5. Do not install valve near a heat source that will still be hot or warm when valve is expected to operate. Even reservoirs, tanks, and large objects can stay well above ambient temperature for a prolonged time and can delay valve opening while smaller piping may be in danger of freezing.
6. When installing heater to valve, make sure it “snaps” over actuator shoulder to hold heater in place.
7. The Guru PC® heater should be connected to a circuit protected by a circuit breaker, or similar fault device. This circuit should only turn on when car heat is required such as typical floor heat or car heat circuits which will hold the valve closed until the car power is off. After valve activation, when the car power is turned back on the heater quickly closes the valve to allow refilling of water system in a timely manner without waiting for the entire passenger car to heat up.

### MAINTENANCE

1. Test valve annually prior to freezing weather by holding ice on actuator or applying “freeze spray” to actuator. Confirm valve opening and also observe that valve closes tightly and does not leak.
2. When valve needs to be replaced, factory offers “repair kit” which allows replacing all parts (except valve body) without removing valve body from inline. Consult factory for information.

 **WARNING:** This product can expose you to chemicals, for example lead, nickel, acrylonitrile, which are known to the State of CA to cause cancer, birth defects, or reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

Warranty information disclosed at [www.thermomegatech.com/terms-conditions/](http://www.thermomegatech.com/terms-conditions/)

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