

3/4" GURU PC® & HEATER ASSEMBLY

PASSENGER CAR FREEZE PROTECTION



BENEFITS

- Eliminates costly freeze damage in passenger cars
- Thermostatic valve - no outside power required
- High flow design for rapid draining
- Easy installation
- Minimal maintenance required
- NSF 61/372 Certified

DESIGN FEATURES

- Low lead brass/bronze
- Self-operating valve
- Dual port seals
- No power or air required when used without heater
- In-line serviceable



OPERATION

Freezing conditions which put water tanks and piping at risk for freeze damage occur when the car heat is turned off for switching locomotives or even brief layovers. The 3/4" GURU PC® valve is self-contained and drains water bearing systems automatically before freeze damage can occur by monitoring ambient temperatures. Since the valve is completely mechanical, no electrical or air connections are required; however, an electric heater assembly is available to quickly heat up the valve after a dump. When used with the heater assembly, we provide a 5 foot power cable and wiring diagram for hard wiring or various plugs of your choice.

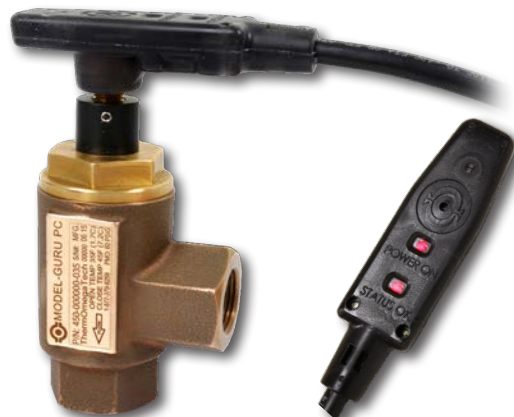
HEATER ASSEMBLY

Valves placed in equipment cabinets tend to be colder than the heated passenger areas and take longer to heat back up when the car heat is restored. This can significantly delay the ability to refill the water systems and get the car back into service after a valve activation. The heater assembly causes the valve to heat up and close quickly. This allows refilling of the water system and getting the passenger car back into service as quickly as possible.



DESIGN FEATURES

- 2 LED lights for easy visual status check of power and heater
- Fully encapsulated PC board
- Self limiting heater
- No moving parts to wear
- Minimal electrical noise
- Easy installation/removal with one hand or gloves
- Heaters available: 120VAC/74VDC & 230 VAC

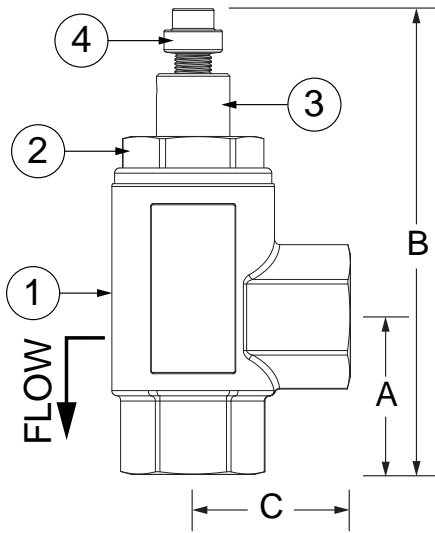


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PARTS & MATERIALS



| ITEM | DESCRIPTION | MATERIAL |
|------|-------------------|----------------|
| 1 | VALVE BODY | Bronze |
| 2 | VALVE CAP | Brass |
| 3 | INSULATOR BUSHING | Acetal Plastic |
| 4 | THERMAL ACTUATOR | Brass |

DIMENSIONS & CAPACITIES

| END CONNECTIONS | A | | B | | C | | Weight | | Cv | Maximum Operating Pressure ¹ | Full Open Temperature | Closing Temperature | Operating/Storage Temperature Range |
|-----------------|-------|-----|-------|------|-------|-----|--------|-----|-----|---|-----------------------|---------------------|-------------------------------------|
| | in | cm | in | cm | in | cm | lb | kg | | | | | |
| 3/4" NPT | 1-7/8 | 4.8 | 5-3/4 | 14.6 | 1-7/8 | 4.8 | 2.8 | 1.3 | 3.1 | 60 PSIG (4.1 BAR) | 35°F (1.7°C) | 45°F (7°C) | -67°F - 160°F (-55°C - 71°C) |

ORDERING

| Part Number | Description |
|----------------|---|
| 450-000000-035 | GURU PC ^{®1,4} |
| 455-000000-060 | 120VAC/74VDC with plug and 5ft cord ^{2,3} |
| 455-010000-060 | 120VAC/74VDC with plain end and 5ft cord ^{2,3} |
| 456-000000-060 | 230VAC with Type-F plug and 5ft cord ^{2,3} |
| 456-010000-060 | 230VAC with plain end and 5ft cord ^{2,3} |

NOTES

- 120 PSIG (8.3 BAR) available
- Other wiring options available
- Complies with fire safety requirements under Title 49, Chapter II, Part 238.103
- NSF 61/372 Certified
- Warranty information disclosed at www.thermomegatech.com/terms-conditions/



ThermOmegaTech®, Inc.
353 Ivyland Road
Warminster, PA 18974

1-877-379-8258
www.ThermOmegaTech.com

GURUPC
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Because of continuous improvements, Therm-Omega-Tech®, Inc. reserves the right to change the design and specifications without notice