

# Models

# Automatic Thermal Relief Valves

## 23420B/23421B/23422B



### OPERATING CONDITIONS

|                     |        |
|---------------------|--------|
| Max Inlet Pressure: | 90 PSI |
| Max System Flow:    | 10 GPM |
| Preset Temperature: | 140° F |

### SPECIFICATIONS

| <u>Part #</u> | <u>Inlet</u> | <u>Weight</u> | <u>Length</u> | <u>Diameter</u> |
|---------------|--------------|---------------|---------------|-----------------|
| 23420B        | 1/4" NPT     | 0.64 oz       | 1.65"         | 0.6"            |
| 23421B        | 3/8" NPT     | 1.63 oz       | 1.65"         | 0.6"            |
| 23422B        | 1/2" NPT     | 2.56 oz       | 1.65"         | 0.6"            |

### **Installation:**

The Automatic Thermal Relief Valve is a must for any system utilizing a closed loop bypass line or internal bypass. The valve is designed to protect your pump and accessories against extreme heat when the pump is in bypass. When the temperature of the water in the bypass line reaches the preset temperature of the valve a small amount of hot water is released which is replaced by cooler supply water. This in turn lowers the temperature of the water in the bypass line thus signaling the valve to close. NOTE: The thermal relief valve works most effectively on pumping systems having positive inlet pressures.

### **Closed Loop Bypass Line Systems:**

For pumping systems whose bypass line is routed back to the pump inlet (closed loop), installation of the thermal relief valve should be in this loop. By installing a "tee" in the bypass line the thermal relief valve can effectively be installed to detect heat build up during pump bypass. A hose should be attached to the end of the valve to direct the hot discharge water to a safe location.

### **Internal Bypass Pumps:**

On pumps equipped with an internal bypass system, the thermal relief valve can be utilized by installing a "tee" at the inlet of the pump. The thermal relief valve can be placed in a branch of the "tee" where it will sense the increased water temperature. A hose should be attached to the end of the valve to direct the hot discharge water to a safe location.

# GIANT

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