

**SINCE  
1930**



HANG NEAR HOLBY TEMPERING VALVE

# INSTRUCTIONS

for Installing and Adjusting the

## HOLBY TEMPERING VALVE

The HOLBY TEMPERING VALVE can be installed in any position. The contractor shall supply and install check valves in the hot water and cold water piping to the HOLBY TEMPERING VALVE. The cold water line should have a MINIMUM 27" THERMAL LOOP at the connection to the water heater, storage tank or source of hot water, to prevent the backing-up of hot water during periods of no demand. The hot water recirculating line should be installed in such a manner that it can reach the cold water inlet of the HOLBY TEMPERING VALVE and also reach the source of the hot water supply. A circulating pump must also be installed on the return line and the pump must operate continuously.

To adjust the HOLBY TEMPERING VALVE, the adjusting screw must first be turned all the way into the bonnet of the HOLBY TEMPERING VALVE. Check the recirculation temperature of the circulating return. If the water is hotter than the desired outlet temperature of the HOLBY TEMPERING VALVE, the return line should be shut off until it has sufficiently cooled. Open a hot water faucet being supplied from the HOLBY TEMPERING VALVE, and allow the water to run while adjusting the HOLBY TEMPERING VALVE. Turn on the cold water to the HOLBY TEMPERING VALVE first, then the hot water. Note the water temperature leaving the HOLBY TEMPERING VALVE on the thermometer installed a short distance away from the valve's outlet. Begin adjusting by turning the adjusting screw left or counter-clockwise and wait a few minutes to note results. Repeat until a satisfactory temperature is obtained. When adjusting the HOLBY TEMPERING VALVE, turn the adjusting screw  $\frac{1}{4}$  turn at a time for valves 1" and smaller. Turn  $\frac{1}{2}$  turn at a time for the 1-1/4" valve. Turn 1 to 2 turns at a time for 1-1/2" and 2" valves. Turn 3 turns at a time for valves 2-1/2" and larger.

An adequate supply of hot water must be supplied to the HOLBY TEMPERING VALVE. The temperature of this water is to be at least 20 degrees higher than the HOLBY TEMPERING VALVE setting otherwise proper regulation may not take place. Do not turn off the cold water feed to the HOLBY TEMPERING VALVE at night or at any other time in order to increase the temperature at the outlet of the valve. If the water is not hot enough the piston will move to close the cold port in the HOLBY TEMPERING VALVE. If the cold water feed is closed partly or entirely, proper regulation by the HOLBY TEMPERING VALVE is impossible and it's more sensitive parts will be unduly strained.

The HOLBY TEMPERING VALVE IS NOT an anti-scald device. Therefore, if absolute safety and fail-safe protection against scalding is required, especially in hospitals, nursing homes, residential, children's homes and many other facilities requiring safety, we recommend the following:

A constantly energized electrical solenoid valve must be provided and installed in the hot water line feeding the HOLBY TEMPERING VALVE with a quick-acting aqua-stat located in the mixed outlet piping of the HOLBY TEMPERING VALVE.

The HOLBY TEMPERING VALVE should be serviced annually or as necessary based on water quality. To service the valve, isolate and drain the Cold Inlet, Hot Inlet and Mixed Outlet. Shut down and isolate the hot return line. Open the valve by removing the bonnet. Three components must be removed from the valve to perform servicing: The Thermal Element, Piston and Spring. Clean the piston with very fine emery cloth. Insure that the piston travels freely in the bore when re-installed. If piston is stuck in the bore of the valve, refer to the HOLBY TROUBLE-SHOOTING GUIDE for method of piston removal.

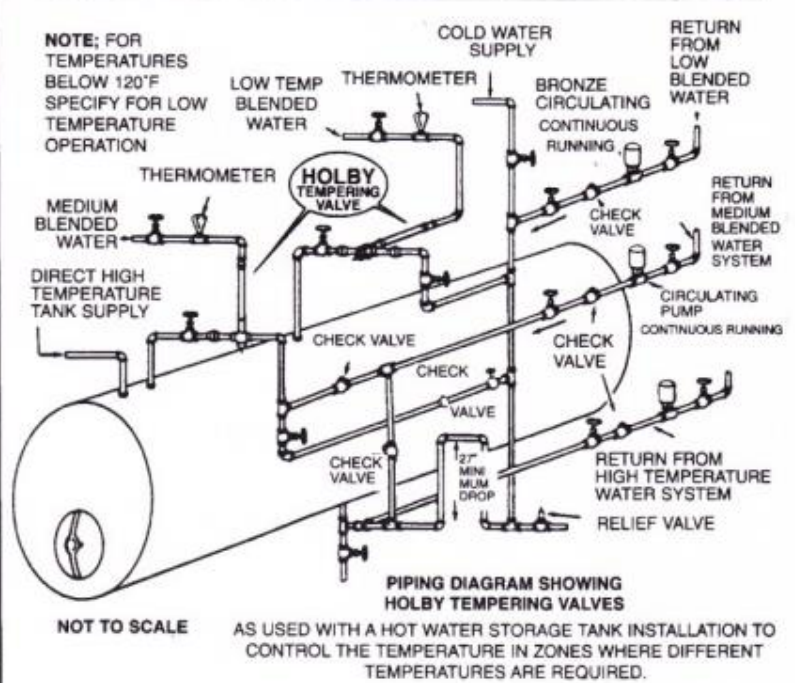
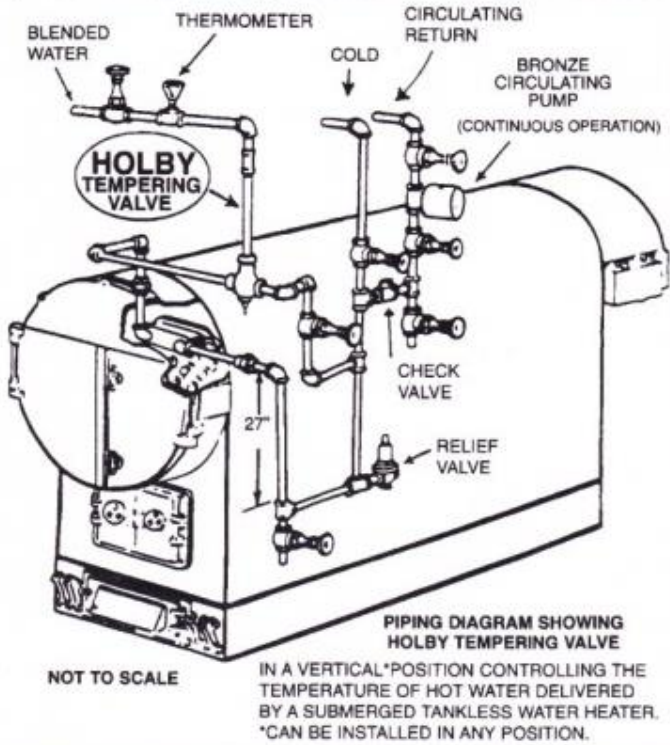
Maximum Operating Pressure: 125 PSIG

**HOLBY VALVE INC.**

24 FERDON ST., NEWARK, NJ 07105 U.S.A.

TEL: (973)-465-7400 www.holby.com E-mail: sales@holby.com

# HOLBY TEMPERATURE REGULATING VALVE - TYPE INSTALLATIONS

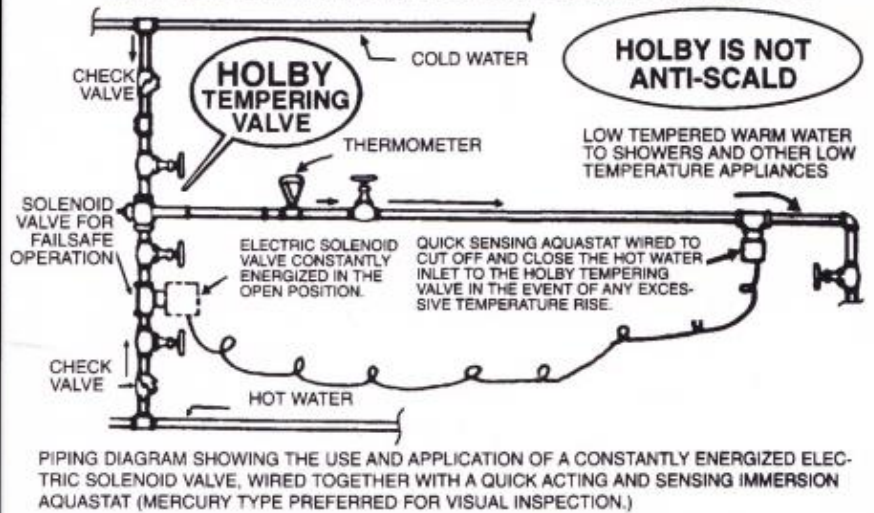


## GUARANTEE

We guarantee each new **HOLBY TEMPERING VALVE** and/or **PART** to be free from defects in material and workmanship for a period of one year provided it has been purchased through our recognized normal channels of distribution. Any **HOLBY TEMPERING VALVE** or **PART**, returned to us carriage prepaid, will, if found defective upon our examination, be repaired or replaced, without charge. All carriage charges to be paid by the customer. For, this guarantee to be effective for each individual application, installation must be properly made according to our piping recommendations.

We will not be responsible for any incidental damage or labor caused by defective material. For the proper installation of the **HOLBY TEMPERING VALVE** for any special application, please obtain our piping diagrams. Within 10 days after installation of each new **HOLBY TEMPERING VALVE**, the enclosed registration card must be filled out and returned to us to make this guarantee effective.

## HOLBY TEMPERING VALVE FAIL SAFE INSTALLATION SCHEMATIC DRAWING



PIPING DIAGRAMS FOR OTHER USES & APPLICATIONS AVAILABLE UPON REQUEST

## THE HOLBY TEMPERING VALVE EXPLODED PARTS VIEW

