### Specifications / Scope of Use

Temperature Set Range	100°F-150°F (40°C-65°C)		
Factory Pre-Set Temperature	135°F(58°C)		
Temperature Range for Thermal Disinfection	>160°F(70°C)		
Max. Working Pressure	145 psi		
Test Pressure	230 psi		
Max Working Temperature	212°F(100°C)		
Accuracy	+/-4°F		
Flow Rate	Refer Flow Diagrams		
Temperature Gauge	32°F-212°F (0-100°C)		

### Dimensions (inches)

Size	Connection Style	Part #	Α	в	С
1/2"	Threaded MNPT	26050	4.10	3.40	1.40
3/4"	Threaded MNPT	26051	4.00	3.50	1.40



# <u>∧</u> Warning

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

## Flow Diagram









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Reliance Worldwide Corporation reserves the right to make changes to the product which may affect the accuracy of information contained in this publication.

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# Installation Instructions 26050 & 26051

Thermal Balancing Valve



# Thermal Balancing Valve 26050 & 26051

Designed to thermostatically regulate water within a hot water circulation system.

# General Info

The Cash Acme Thermal Balancing Valve is a thermostatic circuit control valve designed to automatically control the temperature within a circulating hot water system by dynamically adjusting the flow rate in a branch or circuit, depending on the temperature of the hot water. The Thermal Balancing Valve uses a thermostatic element

which adjusts the flow rate, depending on the temperature the valve is set at and the temperature of the water flowing through it. As the water temperature increases towards the set point, the Thermal Balancing Valve reacts to close off and restrict the flow of circulating water, maintaining the temperature,



and forcing the water to other parts of the system that are at lower temperatures.

The Thermal Balancing Valve is supplied complete with an easily removable thermometer to read the circulating temperature.

The Thermal Balancing Valve from Cash Acme also includes an automatic function to aid in the thermal disinfection of hot water systems. The design of the Thermal Balancing Valve reduces flow rate as temperatures increase, but if the water system temperature is increased to 160° F, a bypass port is opened within the valve which allows an increased flow rate through the circuit to disinfect the hot water system.

While the valve is performing the thermal disinfection function, the water in the hot secondary return circuit will be increased above 160° F. Care must be taken to prevent use of any hot water outlets associated with this valve that are not protected by a point of use tempering valve, thermostatic mixing valve, or similar outlet temperature protection device.



### Installation

The Thermal Balancing Valve is available with 1/2" or 3/4" male NPT connections. The Thermal Balancing Valve can be installed to serve an individual outlet (fig 2), or to control a group of outlets fed from a branch (fig 3), as determined by the required flow rate to the circulating loop.





## Parts Diagram

To install the Thermal Balancing Valve, assemble suitable fittings for the pipe system being used, sealing with approved sealing and fittings.

Once the appropriate fittings are tightened, install the valve in the return pipework, making sure that the flow arrow on the body aligns with the direction of water flow. After a secure connection has been made, insert the thermometer into the brass pocket on the outlet of the valve (fig 1).

#### The Thermal Balancing Valve should be fitted on the return, observing the direction of flow arrow on the valve.

All installation must comply with any state or local authority requirements.

# Commissioning

The Thermal Balancing Valve is designed to be quick and easy to install and commission. Refer to flow diagram for operation types. To set the desired operation, first remove the plastic plug that covers the adjustment mechanism. Next, insert an 8mm Allen Key into the top of the valve and turn the adjustment mechanism until the operating temperature of the circuit lines up with the red mark on the valve. The valve is now set up at this temperature and will operate currently to within +/- 4°F when the system is running normally.

