



Temp Setter™

THERMOSTATIC BALANCING VALVE FOR
POTABLE WATER RECIRCULATION SYSTEMS

Temp Setter

Bell & Gossett Temp Setter thermostatic balance valves automatically control the minimum temperature of the hot water that circulates through your domestic hot water system, ensuring thermal balance throughout the system. With a stepless temperature dial, available in either °F or °C, it's fast and easy to set the desired temperature for your system.

For systems utilizing thermal bacterial disinfection, the Temp Setter valve is available with optional bypass that is independent of the valve's thermostatic element. The constant flow of high temperature fluid eradicates bacterial problems such as Legionella.

Temp Setter thermostatic balance valves are the perfect choice to safely and effectively balance your domestic hot water recirculation systems.

Ensure a minimum temperature in your potable water recirculation system

- Field-adjustable temperature setting (98-150°F).
- Maintains set minimum temperature to within $\pm 3.6^\circ\text{F}$.
- Standard custom insulation block.
- Optional manual or actuated high temperature bypass for thermal eradication.
- 1/2" or 3/4" NPTF x NPTF end connections.
- 145 psi working pressure.
- All wetted surfaces in 316 stainless steel or EPDM.
- NSF 61 certified.

How Does the Temp Setter Work?



Temp Setter Model TSB with and without standard insulation block

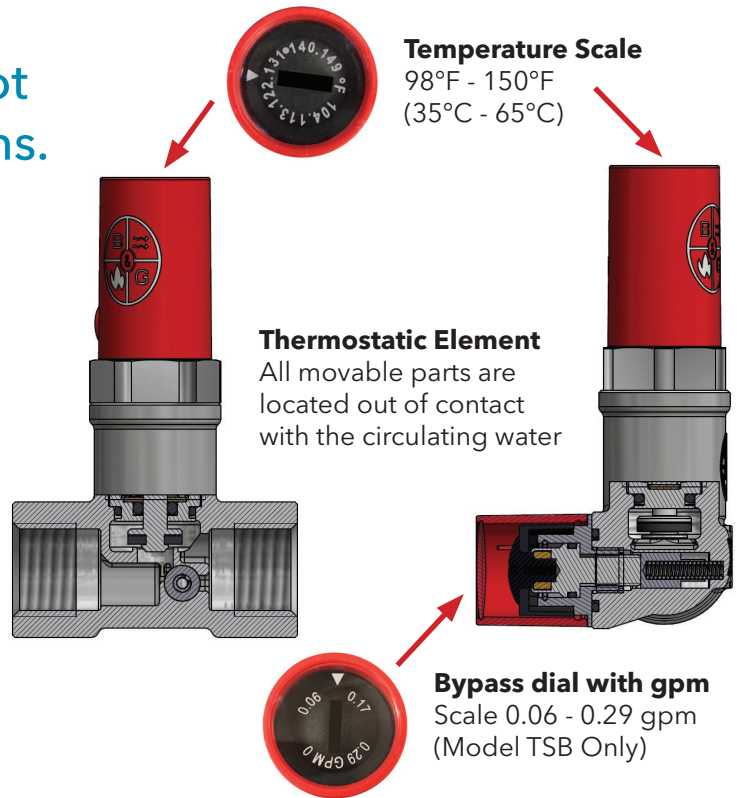
Under normal operation, the valve modulates flow based on the fluid temperature. The isolated wax actuator expands as the fluid temperature exceeds set temperature to restrict flow, and constricts as temperature decreases to maintain a constant temperature at point of use. Temperature dependent balancing helps to increase energy efficiency and user comfort by maintaining a constant temperature and preventing unnecessary recirculation.

When thermal disinfection is used for legionella bacteria eradication, whether by manual or actuated bypass, the valve turns into a constant orifice balancing device. When bypass is initiated, the bypass portion of the valve is opened to allow high temperature water, which would normally be restricted by the thermostatic element, to pass through.

Safely and effectively balance your domestic hot water recirculation systems.

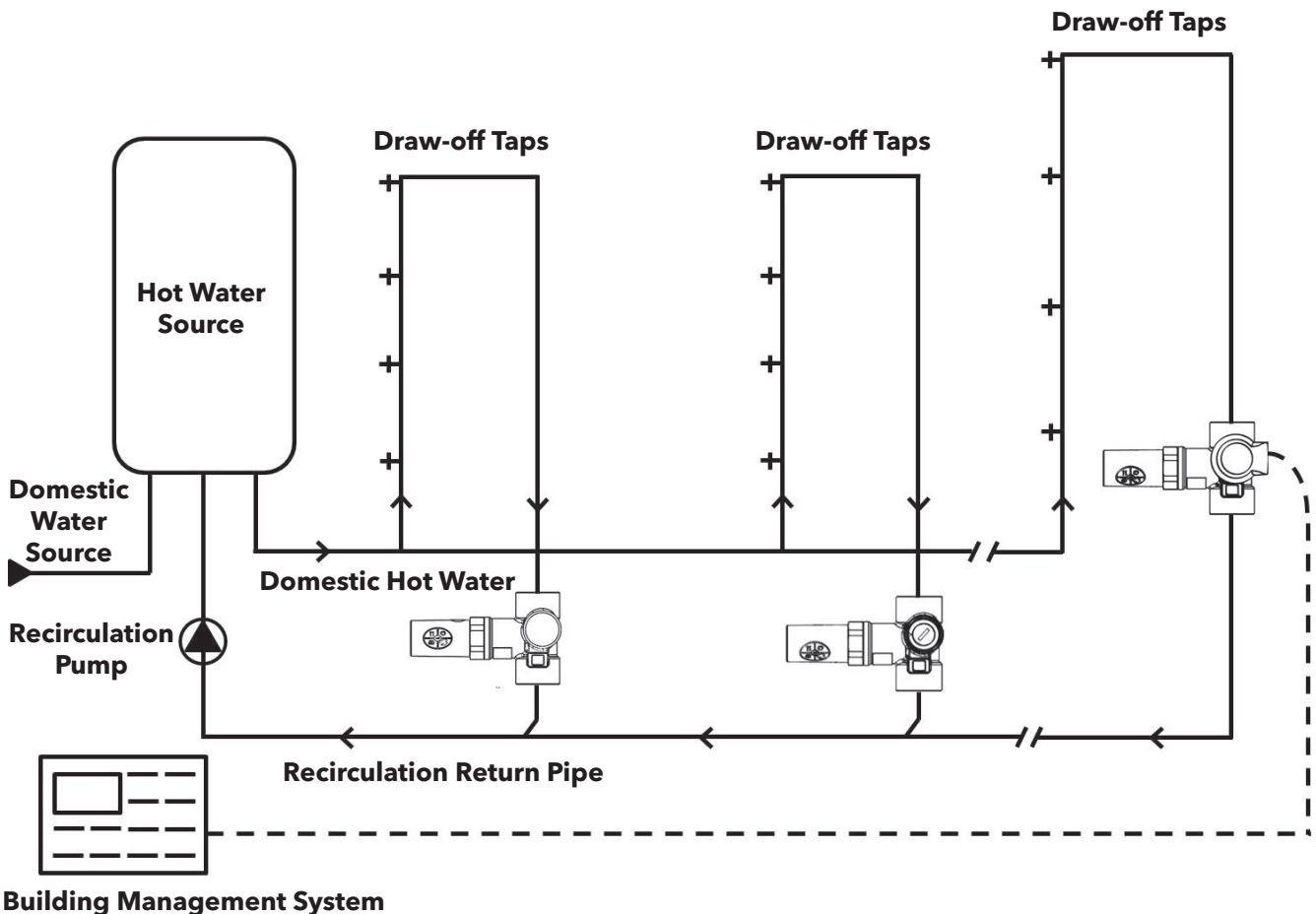
Technical Specifications

Body	316 SS
Temperature Adjustment Range	98°F - 150°F (35°C - 65°C)
Temperature Accuracy	±3.6°F (±2°C)
Max Working Pressure	145 psi
Cv - Max	1.27
Cv - Disinfection	.34
Cv - Min	.34

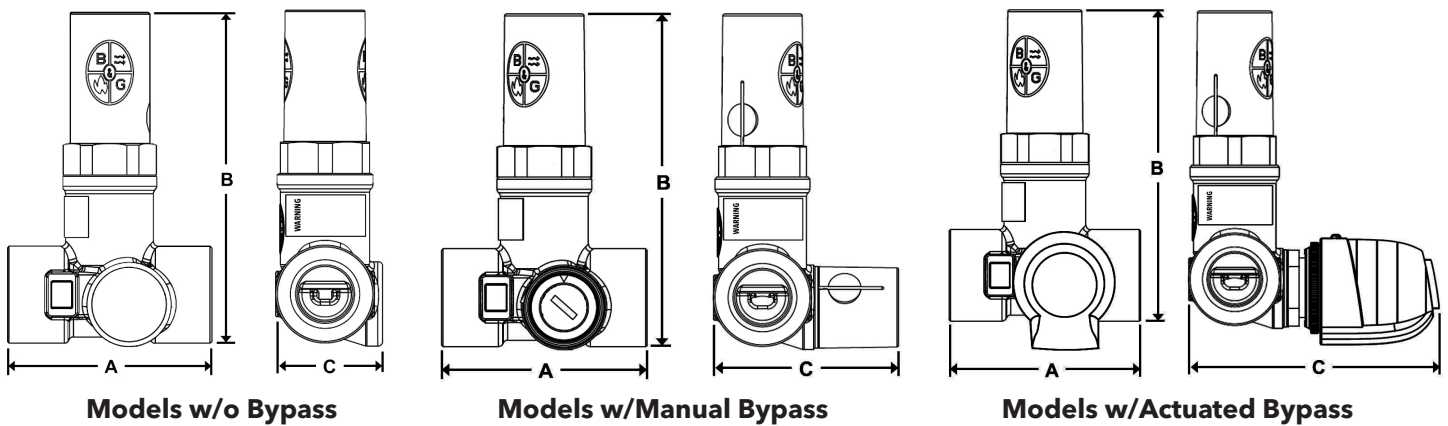


Application Diagram

The valve is installed on each riser of a potable water recirculation system right before the connection to the recirculation piping. This guarantees that temperature at or above the set temperature is available at all draw off taps.



Dimensions and Weight



Models w/o Bypass

Model Number	Dimension in IN* (mm)				Approx. Weight lbs (kg)
	Size	A	B	C	
TS-1/2(C)	0.50 (13)	2.50 (63)	4.10 (103)	1.30 (33)	1.0 (0.45)
TS-3/4(C)	0.75 (19)	2.50 (63)	4.10 (103)	1.30 (33)	1.0 (0.45)

Models w/Manual Bypass

Model Number	Dimension in IN* (mm)				Approx. Weight lbs (kg)
	Size	A	B	C	
TB-1/2(C)	0.50 (13)	2.50 (63)	4.10 (103)	2.20 (57)	1.0 (0.45)
TB-3/4(C)	0.75 (19)	2.50 (63)	4.10 (103)	2.20 (57)	1.0 (0.45)

Models w/Actuated Bypass

Model Number	Dimension in IN* (mm)				Approx. Weight lbs (kg)
	Size	A	B	C	
TSB-1/2(C)	0.50 (13)	2.50 (63)	4.10 (103)	3.80 (97)	1.5 (0.68)
TSB-3/4(C)	0.75 (19)	2.50 (63)	4.10 (103)	3.80 (97)	1.5 (0.68)

For more information about this valve, please see the following documents:

Submittal: A-608

Instruction Manual: V1003439

We value your feedback. Please take our 3 question survey at bellgossett.com/survey to let us know how we are doing.



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