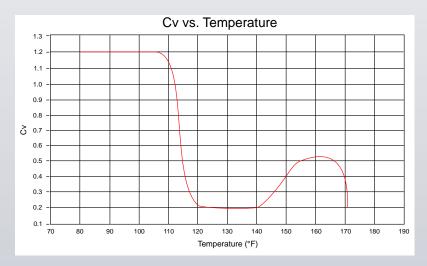


CircuitSolver® is a thermostatic self-actuating balancing valve that continuously adjusts the flow through each branch of a domestic hot water recirculation system to maintain the specified temperature at the ends of the branches.

The CircuitSolver® Sanitary Flush (CSUSF) valve allows for higher water temperatures to flow through the system during the disinfection process to protect against Legionella growth.

This valve uses two thermal actuators to control the flow of water through a branch. When the water temperature in the line reaches the set point of the low temp actuator, the CircuitSolver® closes to keep the hot water at the fixtures. This forces the additional water on to the other branches maintaining a constantly balanced system.

During the sanitary flush process, the low temp actuator will begin to reopen, allowing the high temperature water to flow through the branch again. When the water temperature reaches the set point of the second (high temp) actuator, the CircuitSolver® closes to keep the high temperature water at the fixtures. See the Cv Chart below.





The CircuitSolver® Sanitary Flush valve is tamper-proof and operates at the ideal line temperature for standard balancing while also allowing higher water temperatures during disinfection processes. It is the ideal solution for a maintenance free high temperature flush.

For more information and your local product representative, visit www.CircuitSolver.com

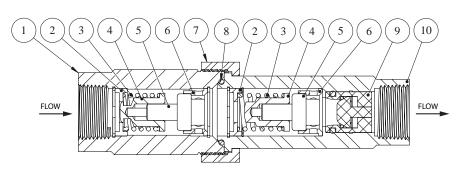


Benefits

- Automatically and continuously adjusts to balance domestic hot water systems
- Eliminates balancing labor and callbacks
- Direct replacement for manual balancing valves
- Reliable, long lasting thermal actuators
- Allows for high temperature sanitary flushing of the system
- Allows for protection against Legionella growth in systems capable of high temperature flush disinfection processes
- Long service life and 3 year warranty
- NSF/ANSI 61 certified

Design Features

- Never fully closes, some water always passing through
- Two high thrust actuators keep orifices free of debris
- Low-temp actuator maintains standard balancing temperature
- High-temp actuator for sanitary flush process
- Lead free for use in potable water systems
- All Stainless Steel, Corrosion Resistant Construction



ITEM #	DESCRIPTION	MATERIAL			
1	Valve Body w/ Union Threads	303 SS			
2	Insert - Circuit Solver®	303 SS			
3	Spring	302 SS			
4	Plug	303 SS			
5	Thermal Actuator	303 SS			
6	Carrier	303 SS			
7	Union Nut	303 SS			
8	O-ring	BUNA-N			
9	Check Valve (optional)	GLASS FILLED NORYL			
10	Insert - Female Threaded	303 SS			

Dimensions & Capacities

Model Number	SIZE (NPT)	Diameter (D)		Length (L)		WEIGHT		MAXIMUM OPERATING PRESSURE		MAXIMUM TEMPERATURE	
		IN.	MM	IN.	MM	LBS.	KG	PSIG	BAR	°F	°C
CSUSF-1/2-XXX ² /170 ³	1/2"	2.0	51	6.3	160	2.5	1.1	200	14	250	121
CSUSF-1/2-XXX ² /170 ³ -CV1		2.0									
CSUSF-3/4-XXX ² /170 ³	3/4"	2.0	51	6.3	160	2.5	1.1				
CSUSF-3/4-XXX ² /170 ³ -CV1	3/4										
CSUSF-1-XXX ² /170 ³	1″	2.4	2.4 60	6.7	169	4.0	1.8				
CSUSF-1-XXX ² /170 ³ -CV1		2.4									

Model Selection

XXX refers to the desired closing temperature for standard balancing. For example, if you want 120°F desired return temperature during standard balancing and a 170°F maximum temperature flowing through the system fixtures installed on a 3/4" line, the model number would be CSUSF-3/4-120/170. To add optional check valve insert -CV1 directly after the temperature designation in the model number.

Notes:

- 1. The CircuitSolver® valve is fully open approximately 10°F below the closing temperature.
- 2. Typical closing temperatures of the low temp actuator include: 100°F, 105°F, 110°F, 115°F, 120°F, 125°F, 130°F, and 140°F.
- Standard temperature for the high temp actuator is 170°F.
- 4. Warranty information disclosed at www.thermomegatech.com/terms-conditions/

