



□ G3850LF Tempering Valve, 44 Gallon Capacity, Redundant Bypass

Application: Tempering valve to blend hot and cold water to deliver tepid water. Valve is equipped with external bypass to supply additional cold water to outlet tempered water if outlet water temperature rises beyond 90°F (32°C). Valve has flow capacity of 3.0 to 44 gallons per minute (GPM). Valve can be used with single installation of an emergency shower or safety station, or multiple installations of eyewash, eye/face wash, dual purpose eyewash/drench hose, or drench hose units.

Temperature Control: Valve has bimetallic thermostat that senses incoming water temperature and automatically blends water to 85°F (29°C). High temperature limit stop is set to 90°F (32°C). Valve has dial thermometer on outlet to monitor temperature of delivered water. *Note: Valve may need to be adjusted when installed based on incoming water temperature. Refer to "Installation Instructions" on the following page for further information.*

Internal Fail Safe: In event of restriction or failure of hot water supply, internal bypass allows valve to deliver cold water to emergency unit. In bypass mode, valve will deliver 20 GPM of cold water at 30 PSI flow pressure. In event of loss of cold water supply, valve will close to prevent scalding and not deliver water.

External Fail Safe: In addition to primary blending, unit is furnished with external thermostat to monitor outlet water temperature. If temperature of outlet tempered water exceeds 90°F (32°C), additional cold water is added to outlet water to reduce water temperature to 90°F (32°C).

Flow Capacity: Refer to chart below for flow capacity of valve at specified pressure drops:

System Pressure Drop (PSI)	5	10	15	20	25	30	35	40
Flow Rate (GPM)	20	25	30	33	35	38	43	50

System Pressure Drop (Bar)	0.3	0.7	1.0	1.4	1.7	2.1	2.4	2.8
Flow Rate (Liters per Minute)	76	95	114	125	132	144	163	189

Supply Temperature: Minimum recommended hot water supply temperature is 120°F (49°C). *Note: Extremely cold climates may require a hot water supply temperature greater than 120°F (49°C).*

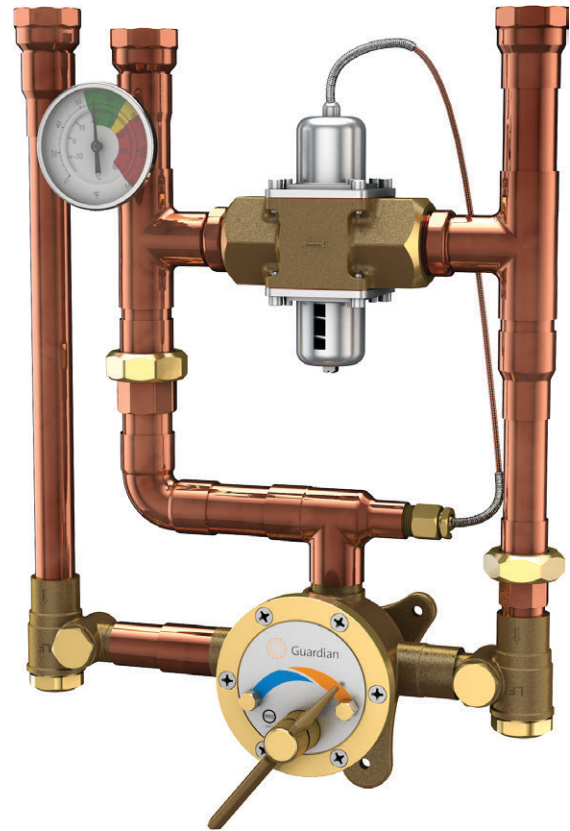
Supply Pressure: 30 PSI minimum supply pressure is required for proper valve operation. Maximum supply pressure is 125 PSI. Maximum hot to cold water pressure differential is 5%.

Mounting: Furnished with heavy duty mounting bracket for securing valve to panel or wall.

Inlets: 1-1/4" NPT female hot and cold water top inlets. Each inlet has integral water strainer, check valve and supply stop.

Outlet: 1-1/4" NPT female outlet.

Quality Assurance: Valve is completely assembled and water tested prior to shipment. Valve is certified to ASSE 1071. Valve is certified to meet low lead requirements of wetted surface area less than 0.25% lead by weight.



IMPORTANT: Pursuant to ANSI Z358.1-2014, the water delivered by emergency equipment should be "tepid". Tepid is defined as moderately warm or lukewarm, and is generally considered to be between 60°F (15°C) and 90°F (32°C). However, in certain circumstances, a chemical reaction may be accelerated or otherwise affected by the water temperature. Please consult with a medical advisor to determine the optimum delivered water temperature prior to specifying, installing or using a tempering valve.

Tempering valves will not deliver the appropriate water temperature if the system has not been sized correctly. Please refer to the flow capacities and supply pressure requirements listed above when designing the tempered water system and selecting tempering valves.

Tempering valves, like all emergency eyewash and shower equipment, must be installed in accordance with the manufacturer's instructions and maintained on a regular basis. Under ANSI Z358.1-2014, all emergency equipment should be activated weekly and inspected at least annually. Tempering valves should be treated the same and, in addition, must be regularly cleaned and cycled.

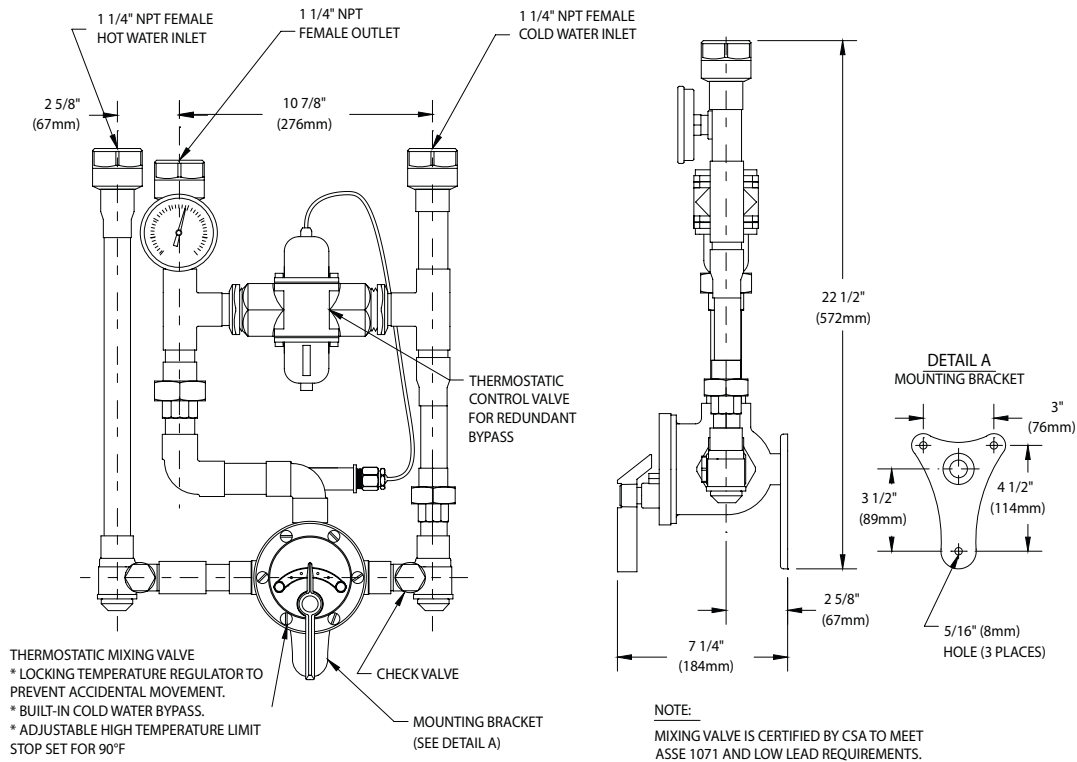
Additional Models

□ G3852LF Same as above except unit is installed in surface mounted stainless steel cabinet.





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Installation Instructions:

- As with all plumbing devices and emergency equipment, thoroughly flush supply lines prior to and after installation.
- Install mounting bracket on panel or wall. Thread tempering valve securely onto mounting bracket. Valve must be installed in a location where it is readily accessible for inspection, cleaning and maintenance.
- Connect hot and cold water supply lines to valve. Connect outlet line to valve and then to inlet of emergency equipment.
- Activate the water flow and check the temperature of the water delivered from the tempering valve and emergency equipment. Note that the temperature control pointer (handle) on the tempering valve has been factory preset to deliver 85°F (29°C) tepid water and the high temperature limit stop has been factory preset at 90°F (32°C). These temperatures are based upon an incoming hot water supply at 135°F (57°C). *Note: If the incoming hot water temperature is higher than 135°F (57°C), the valve (when turned to full hot) will deliver water that is warmer than 90°F (32°C). In this case, the high temperature limit stop must be reset by the installer.*
- To reset the high temperature limit stop:
 - Loosen set screw. Remove snap cap, pointer screw, washer and pointer (handle).
 - Activate the emergency fixture.
 - Temporarily place pointer on pointer rod and turn handle to the left, allowing cold water to flow. Then, slowly adjust handle to the right until the desired maximum temperature is reached. *Note: Temperatures above 90°F are not recommended. Consult a medical advisor for correct temperature settings.*
 - Once maximum temperature has been reached, remove pointer and replace on pointer rod such that its right edge rests against the stop screw located on the right side of the cover.
 - Tighten set screw and replace washer, pointer screw, and snap cap.

THIS SPACE FOR ARCHITECT/ENGINEER APPROVAL

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 1/4" (6mm). rev. 0417

