



### □ G3900 Tempering Valve, 81 Gallon Capacity

**APPLICATION:** Tempering valve to blend hot and cold water to deliver tepid water. Valve has flow capacity of 3.0 to 81 gallons per minute (GPM). Valve can be used with single installation of emergency showers and safety stations, and with multiple installations of emergency shower, eyewash, eye/face wash, dual purpose eyewash/drench hose, drench hose and safety station 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" for further information.*

**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 40 GPM of cold water at 30 PSI flow pressure. In event of loss of cold water supply, valve will close and not deliver water.

**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)	53	64	72	81	90	99	108	117

System Pressure Drop (Bar)	.3	.7	1.0	1.4	1.7	2.4	2.4	2.8
Flow Rate (Liters per Minute)	201	242	273	307	341	374	409	443

**SUPPLY PRESSURE:** 30 PSI minimum supply pressure is required for proper operation of valve. Maximum supply pressure is 125 PSI.

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

**INLETS:** 1 1/4" NPT female hot and cold water inlets. Inlets can be rotated 360 degrees for top or bottom supply. Each inlet has integral water strainer, check valve and supply stop.

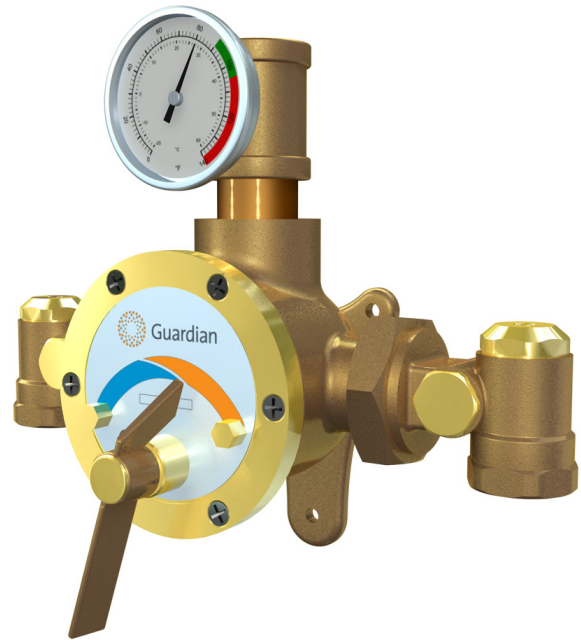
**OUTLET:** 1 1/4" NPT female outlet.

**QUALITY ASSURANCE:** Valve is completely assembled and water tested prior to shipment. Valve is certified to ASSE 1071.

### Additional Model

□ **G3902** Same as above except valve is installed in surface mounted stainless steel cabinet.

□ **G3907** Same as above except valve is installed in recess mounted stainless steel cabinet.



**IMPORTANT:** Pursuant to ANSI Z358.1-2004, 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.

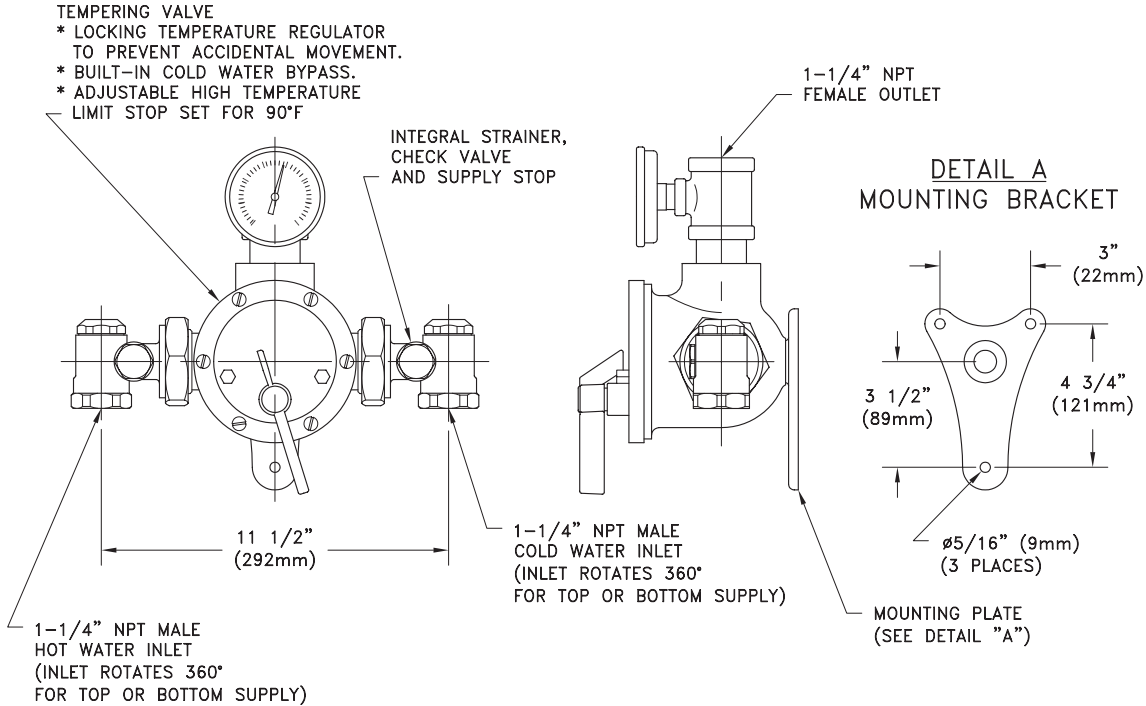
Tempering valves will not deliver the appropriate water temperature if the system has not been sized correctly. Please refer to the flow capacities and supply pressure requirements listed above when designing the tempered water system and selecting tempering valves.

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 Z358.1-2004, 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.





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- 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 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 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 150°F (66°C). If the incoming hot water temperature is higher than 150°F (66°C), the valve 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:
    - While the water is running, turn the pointer clockwise to the maximum hot water position.
    - Loosen pointer set screw. Remove the snap cap, screw and washer. Remove the pointer.
    - Replace the pointer on the valve stem and rotate the valve stem until the desired outlet water temperature is reached. Confirm the outlet water temperature on the outlet thermometer. Remove Pointer.
    - Replace the pointer on the valve stem, positioned so that the pointer is against the stop screw on the RIGHT side of the valve cover (i.e. the valve stem cannot be turned any further clockwise).
    - Tighten the pointer set screw. Replace the snap cap, screw and washer.

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. 0308

Sign Included

