

CALITION

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SETTING THE MIXING VALVE

1: When maintaining and adjusting the Mixing Valve, all fixtures should be isolated from use. Speakman recommends that appropriate personnel shall work safely at all times and in a manner consistent with the OSHA Lock/Tag out standard, 29 CFR 1910.147 and other applicable standards. 2: When maintaining and adjusting the Mixing Valve, the delivered flushing fluid temperature shall be in the tepid range as per ANSI/ISEA Z358.1 Standard. In circumstances where chemical reaction is accelerated by flushing fluid temperature, a medical advisor should be consulted for the optimum temperature for each application.

REMOVE THE CAP WITH FLAT TIP SCREWDRIVER FROM THE NOTCH ON THE CAP



This Mixing Valve has been set at the factory to deliver 85 °F outlet flow. High temperature limit is set to 90 °F by design. Should the Valve require adjustment, or an application require a different set temperature, proceed as follows:

Adjust Temperature with Water Running

- Check the temperature when approximately 10 GPM water flow is reached (equivalent to two eye/face washes).
- Contact proper medical and safety authorities to determine the correct water temperature for the specific application (i.e., chemicals).
- Remove the Plastic Cap (White) from the Valve using a Flat Tip Screwdriver.

SETTING THE MIXING VALVE



REPLACING THE THERMOSTATIC ELEMENT

The Thermostatic Element's replacement procedure is as follows:

1. Shut off the hot water supply and cold water supply to the Mixing Valve.

2. Remove the Plastic Cap and disassemble the Valve Cap.

3. Remove Thermostatic Element in conjunction with the Shuttles (Upper and Lower) and Rod from the Valve Body. No special tools are required.

4. Inspect the Thermostatic Element. If it feels slippery to the touch, then the Element has lost its wax and requires replacement. Disengage the Thermostatic Element from the Shuttle (Lower) to replace. If the Thermostatic Element feels normal to the touch, then it is in good condition and operable.

5. Verify that the stainless steel Piston moves freely up and down within the Element's body.

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After installation, test the Mixing Valve and the Emergency Fixtures it serves for proper operation by following the steps below. Testing shall be performed weekly and logged to comply with applicable codes and standards.

TESTING THE MIXING VALVE

Valve temperature test procedure is as follows: 1. Activate Eye/Face Wash Fixtures to observe and record the temperature of the Dial Thermometer. If the temperature of the Thermometer is not correct, readjust the Mixing Valve according to the section "Setting the Mixing Valve"

2. Observe the flow from the Emergency Fixtures to ensure adequate flow of water.

Cold Water Bypass and Cold Water Shut Down test procedures: 1. Test Valve temperature as described in Step 1 and Step 2 above.

2. Shut off the hot water supply to the Mixing Valve. Observe the outlet flow from the Emergency Fixtures to ensure an adequate flow of cold water. A slight drop in flow will occur after shutting down the hot water supply to the Mixing Valve. However, the drop should be as per the cold water bypass flow information as shown on the rough-in section of this document.

3. Open the hot water supply to the Mixing Valve. The Thermometer should return to the set temperature.

4. Shut off the cold water supply to the Mixing Valve. The flow of water should shut down rapidly.

5. Open the cold water supply. The Thermometer should return to the set temperature.

NOTE: The Thermometer should be checked at least every six (6) months.

Note:

Gallon per minute ratings may vary depending upon incoming water temperatures and pressures. Hot and cold water inlet pressures must be equal.

Provisions shall be made to thermally isolate the valve.

STW-350 RECOMMENDED STANDARD INSTALLATION SYSTEM







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STW-350 ROUGH-IN DIAGRAM

SPEAKMAN[®]



STW-350 REPAIR PARTS SPEAKMAN® DP ITEM NO. DESCRIPTION PART NO. 1 RPG05-1123 THERMOSTATIC & O-RING REPAIR KIT 2 RPG05-1116 DIAL THERMOMETER REPAIR PART (The second seco