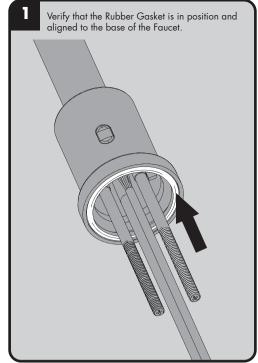
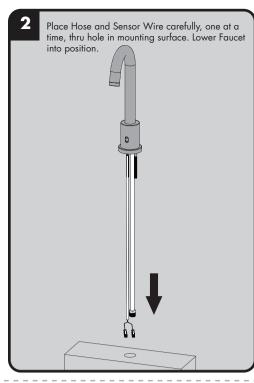


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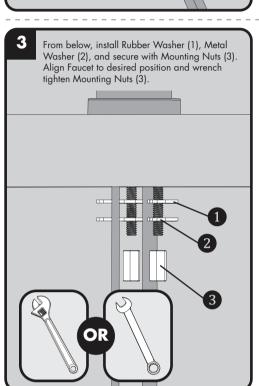


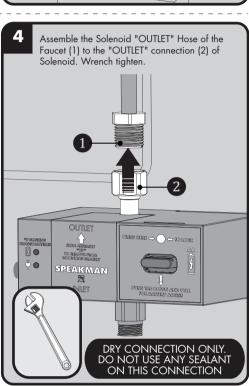


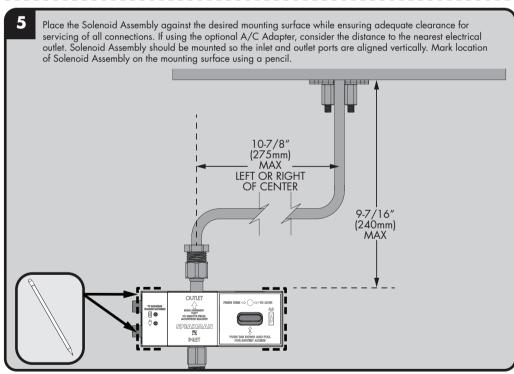


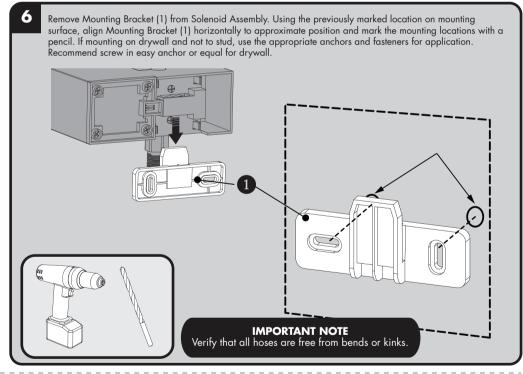


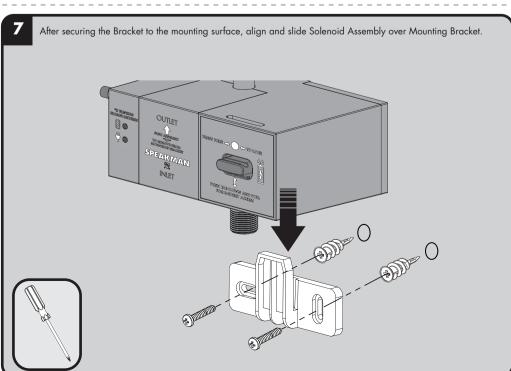
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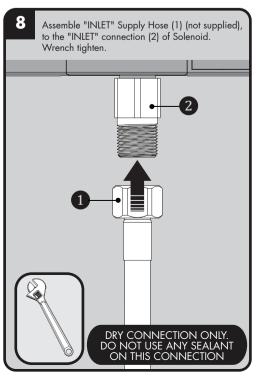


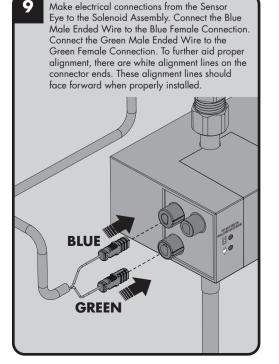


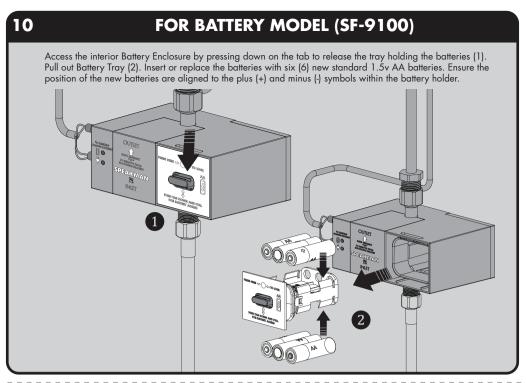


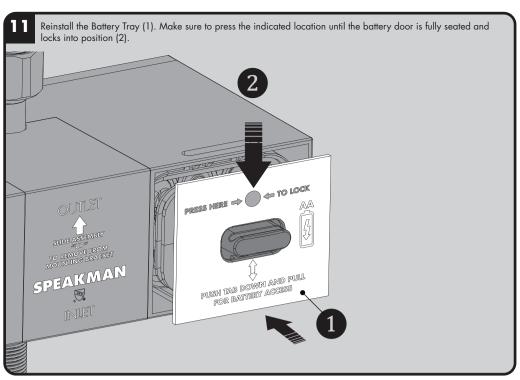


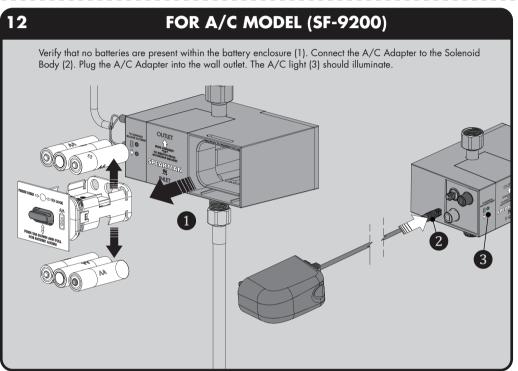


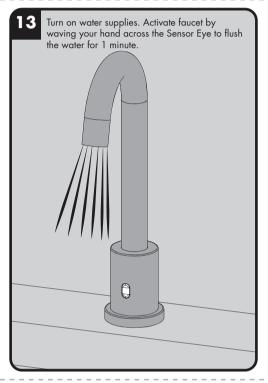


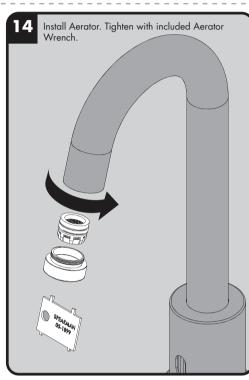












## SF-9100 / SF-9200 TROUBLESHOOTING

### If water flow from the Faucet decreases:

- 1) Make sure the supply stops are open.
- 2) Remove the Aerator from the spout using the outlet wrench. Operate the Faucet with outlet device removed. If water flow is acceptable, disassemble the outlet device and rinse components with clean water.

## If no water flows from the Faucet, and

- If you can hear a clicking sound of Solenoid opening, but no water flows:
- 1) Verify that the HOT and COLD wall stops are completely open.
- 2) If the Battery Light within the Sensor Eye or Solenoid blinks continuously, even when the Faucet is not in use, the batteries within the Solenoid have low voltage and need replacement.

If you **do not** hear a clicking sound of Solenoid opening and no water flows:

1) If the Battery Light within the Sensor Eye blinks continuously, even when the Faucet is not in use, the batteries within the Solenoid have low voltage and need replacement.

- 2) Unplug connections to Solenoid for 2 minutes. Plug connections back in. The red light on the Sensor should turn on for several seconds before becoming operational. If not, check power supplies and connections.
- 3) Disconnect the existing Solenoid Assembly and connect a new Solenoid Assembly. Activate the Sensor and check for water flow. If the water flows, the existing Solenoid Assembly should be replaced.
- If the batteries have been replaced, but the Faucet still does not operate:
- 1) Check the battery polarity and electrical connections. Make sure all electrical connections are fully inserted.
- 2) If the Faucet does not operate, replace the existing Solenoid Assembly with one you know to be functioning.

### If the Faucet activates, but the water will not shut off:

- 1) Hold a hand in front of the Sensor at up to 7" away for more than 1 minute until the water flow stops. Once the water stops, remove your hand and wait 15 seconds. Then place your hand in front of the Sensor and verify that it is operating properly.
- 2) If the Faucet still does not shut off, cover the front of the sink with a towel. This will eliminate the potential of reflections activating the Sensor.
- 3) If it is a new installation and still not working, replace the Solenoid Assembly.

## SF-9100 / SF-9200 QUESTIONS & ANSWERS

## Q. How does the Sensorflo® Faucet work?

**A.** It uses laser technology. The Sensor emits a non-visible beam of light. When an object enters the detection area, the Sensor signals the Solenoid Valve to open for water to flow. When an object leaves the detection area, the Sensor signals the valve to close.

### Q. Is the Sensorflo® Faucet sensor beam adjustable?

**A.** No, the Sensorflo® Faucet sensor beam is not adjustable. It has been factory set to factory specifications for these Faucets.

### Q. What about water conservation?

**A.** The Sensorflo® design directly addresses water conservation. Water savings of up to 85% are not unusual. Additional energy savings are realized by conserving hot water.

### Q. Does Sensorflo® reduce maintenance?

**A.** By elimination of on/off handles, control components are reduced and fittings stay cleaner longer. Only a light rinsing and wiping is required to restore the beauty of the Sensorflo® Faucets. Drip stains are eliminated. Fingerprints and soap spots on sinks and fittings are avoided. Finishes last longer and wash areas stay cleaner. Germs and bacteria are not transferred as easily making for a healthier environment.

# Q. The chrome finish on my Faucet seems to be deteriorating. What can I do to prevent this from happening?

**A.** Many commercial cleaning products contain harsh chemicals and abrasives. These products should not be used on any chrome-plated plumbing products. Please use only mild soap and water to clean the Faucet. Dry immediately with a soft cloth.

# Q. Does the Sensorflo® system shut off immediately when an object leaves the sensing area?

**A.** A very short delay of approximately 0 to 1.5 seconds occurs before water is shut off.

### Q. Is my Faucet protected from power surges?

A. Yes, Sensorflo® has been designed to have built-in power surge protection.

## Q. If we lose power, do I have to do something to get the Faucet to operate again?

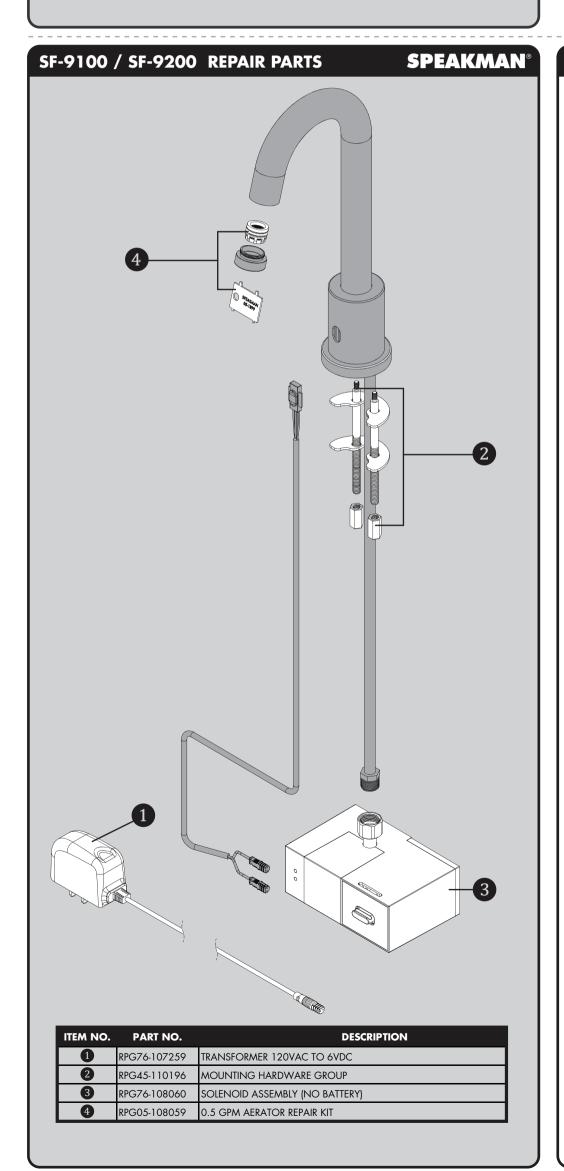
**A.** After a power outage, the Faucet is automatically ready for operation as soon as the power comes back on.

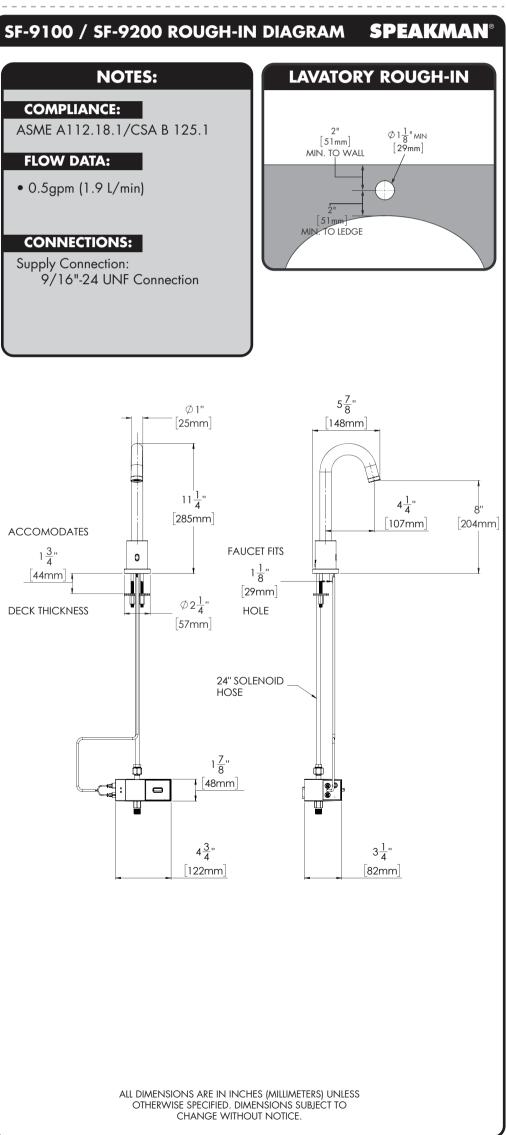
# Q. If I call a plumber to come and install this Faucet, will they know enough to hook it up?

**A.** Our installation diagrams are very easy to follow.

### SF-9100 / SF-9200 CARE AND CLEANING

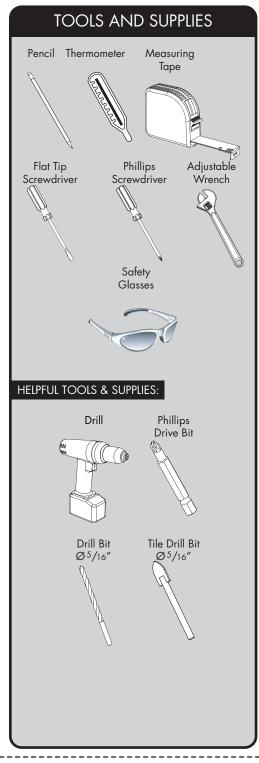
- 1) Your SENSORFLO® Faucet is designed and engineered in accordance with the highest quality and performance standards. With proper care, it will provide years of hygienic and trouble-free service.
- 2) Periodically, the Faucet will require some minor maintenance to keep it at peak performance. There are 2 low battery indicator lights. One located on the Sensor on the Faucet body and the other located on the Solenoid Box. When the low battery light on the Sensor blinks, it indicates that the battery is low. However, the Solenoid can still function at this point. When the low battery light on the Solenoid blinks, the Solenoid will stop functioning at this point and the batteries need to be replaced immediately. To replace the batteries, follow the installation instructions in the electrical connections section of this document.
- 3) The polished chrome finish of your Faucet should be cleaned using mild soap and warm water.
- 4) Dry immediately with a soft, clean cloth for best results.
- 5) NEVER use abrasive cleaners, chemicals, alcohol or other solvents. They may damage the surfaces of the non-chrome plated finishes.



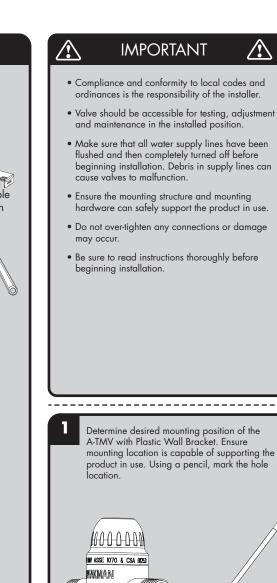




INSTRUCTIONS FOR MODELS

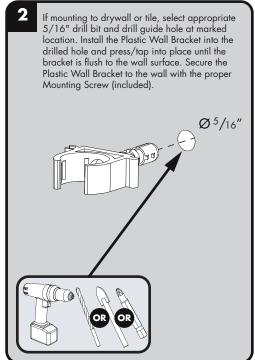


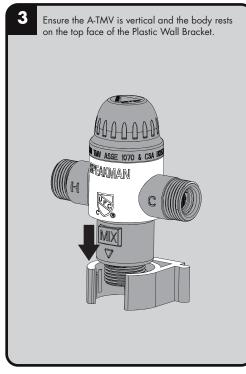


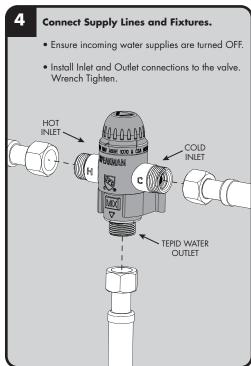


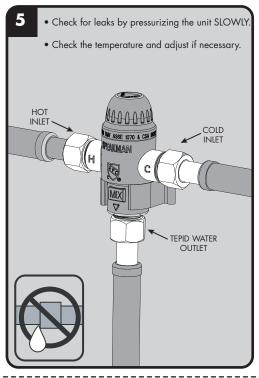
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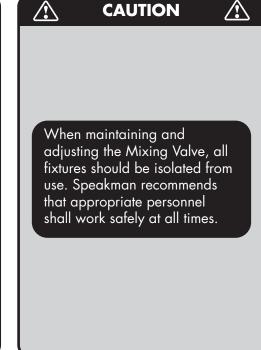


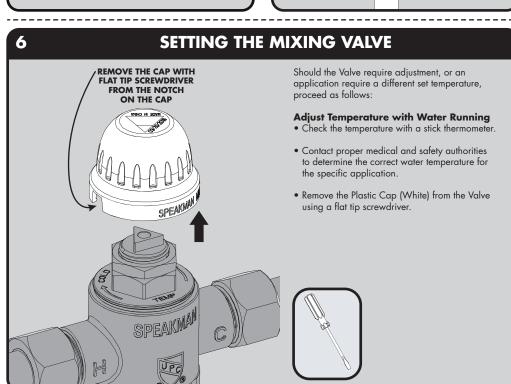


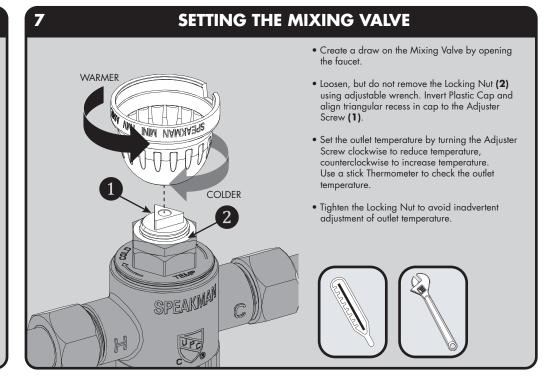












### TESTING THE MIXING VALVE

After installation, test the Mixing Valve and the faucet it serves for proper operation by following the steps below.

#### Valve temperature test procedure is as follows:

1. Activate faucet to observe and record the temperature with a stick Thermometer. If the temperature of the Thermometer is not correct, readjust the Mixing Valve according to the section "Setting the Mixing Valve"

### 9 REPLACING THE THERMOSTATIC ELEMENT

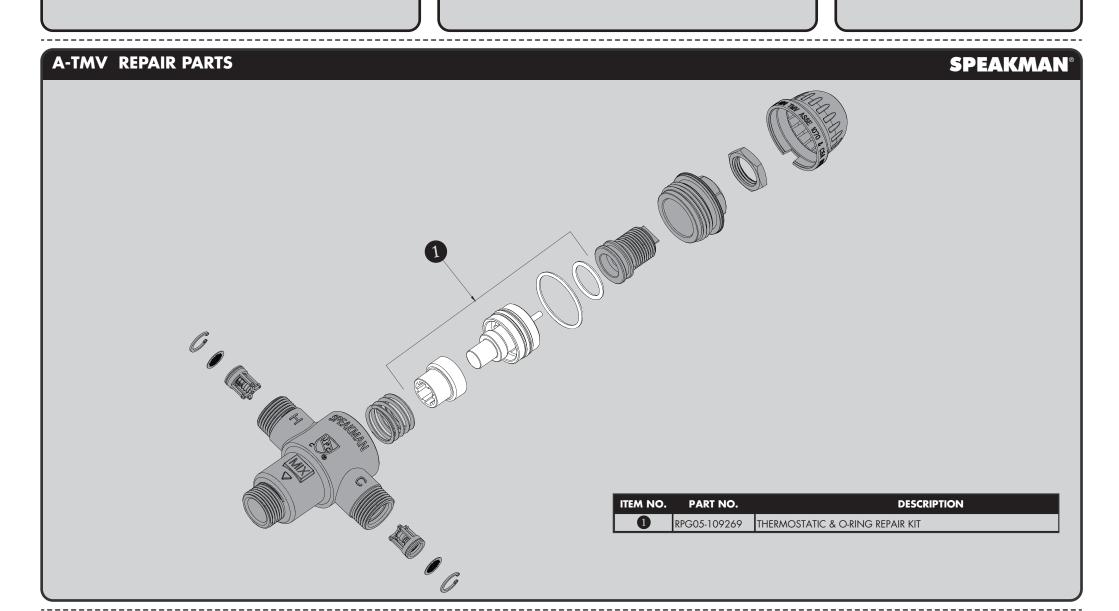
The Thermostatic Element's replacement procedure is as follows:

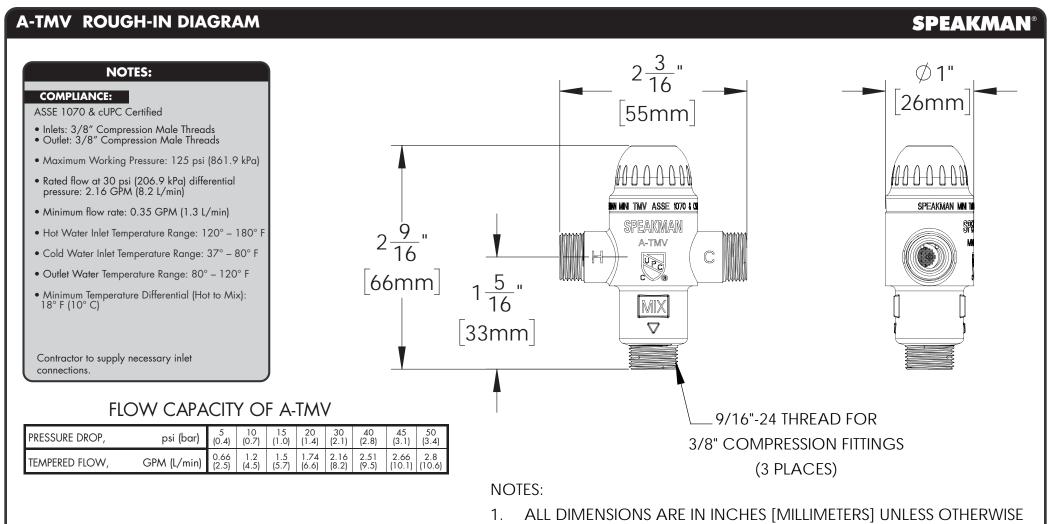
- 1. Shut off the hot water supply and cold water supply to the Mixing Valve.
- 2. Remove the Plastic Cap and disassemble the Valve Cap.
- 3. Remove Thermostatic Element in conjunction with the Shuttle from the Valve Body. No special tools are required.
- 4. Inspect the Thermostatic Element. If it feels slippery to the touch, then the Element has lost its wax and requires replacement. 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.

#### 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.





SPECIFIED AND ARE SUBJECT TO CHANGE.