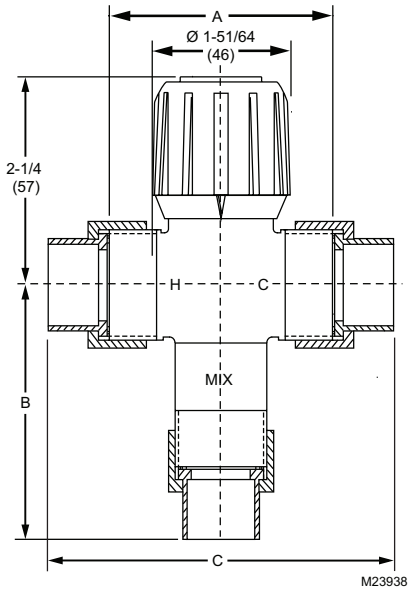

Fig. 1. Dimension Diagram

INSTALLATION

NOTE TO INSTALLER: This product should be installed by a qualified individual, in accordance with local codes and ordinances. It is the responsibility of the installer to properly select, install and adjust these devices as specified in these instructions. For installations, which require compliance with Building/Mechanical/Plumbing Codes, the appropriate AM-1 Series Valve must be chosen and installed and the discharge temperature set and locked according to these instructions. These models shall be used to supply water to tubs, showers, bathing facilities and other outlets. These valves should be installed where they will be accessible for cleaning, servicing or adjustment.

NOTE: Pressure difference between Hot and Cold ports should not exceed 10 psi (68.9 kPa).

Installation of Union Sweat, CPVC and PEX Connections

- — Union sweat connections, if used, should be soldered prior to assembly to the valve, or without the sealing gasket or optional check valve present. After the joint has cooled, the sealing gasket and/or check valves may be installed.
- — CPVC fittings are limited to a system maximum temperature of 180° F (82° C) and 100 psi (689 kPa).
- — Pex fitting and crimp ring (provided by Installer) are deigned to meet ASTM F1807 requirements.
- — Pex tubing used with PEX fittings must meet ASTM F876 requirements.

ASSE 1070 Applications:

These AM-1 1070 models can be installed in any position consistent with the intended use. The AM-1 1070 shall be installed as shown in Fig. 2. Check valves, as indicated, may be installed to prevent migration of hot water into the cold branch and cold water into the hot branch through the AM-1 1070 Valve. Sweat union connections (if used) should be soldered prior to assembly to the valve or without the sealing gasket or optional plastic check valve present. After the joint has cooled, the sealing gasket and / or check valves may be installed.

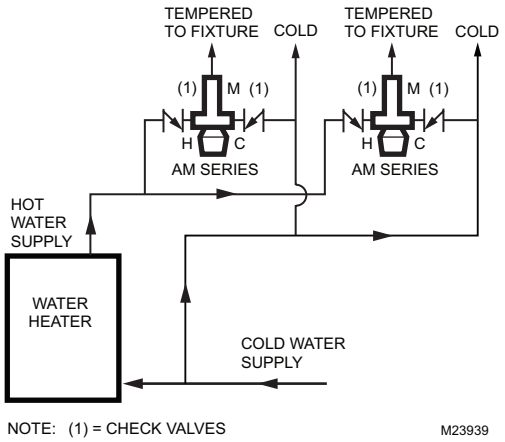

Fig. 2. AM Series ASSE 1070 - Two Handle Fixtures

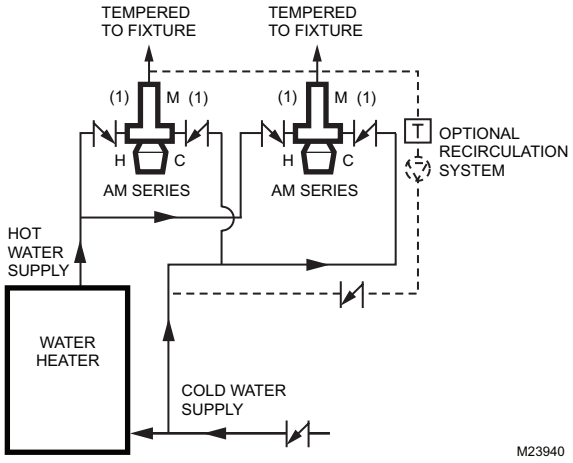

Fig. 3. AM Series ASSE 1070 - Handless Fixtures

Domestic Water Mixing (Tempering) (ASSE 1017) (Source of Hot Water)

Use when water temperature produced by heater is hotter than designed at point of use. Many codes require that water supplied to the system be limited to 120° F (49° C) max.

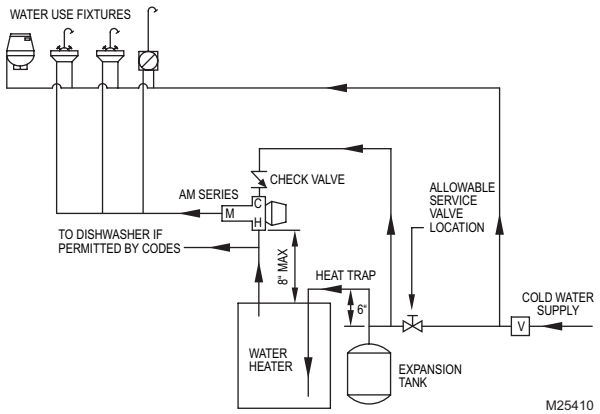

Fig. 4. Water Heater Without Recirculation

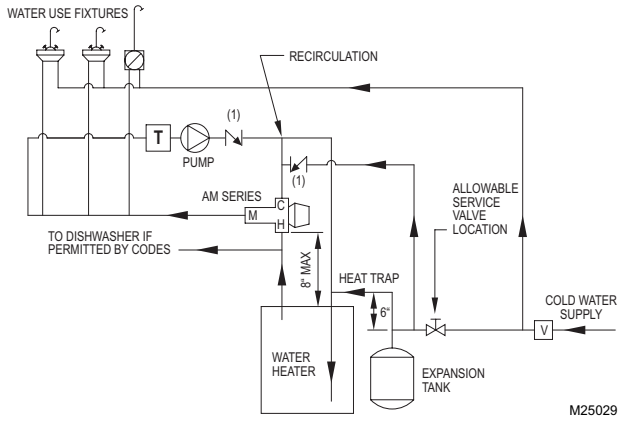

Fig. 5. Water Heater With Recirculation

SYMBOLS

1 = Check Valve/Flow Check

2 = Alternate Pump Location

V = Any device which turns the domestic water system into a closed system such as; backflow preventers, check valves or pressure reducing valves.

T= Honeywell Aquastat

NOTES:

- "V" is optional depending on local codes. If a "V" type valve is used, it is mandatory that a thermal expansion tank be installed as shown. Otherwise, dangerously high pressure could result or water heater safety relief valve will frequently expel water. If no "V" device is used, the thermal expansion tank is not required.
- Install recirculation pump between last fixture and water heater, as shown in Figures 5 and 6.
- Use Honeywell Aquastat "T" where shown.

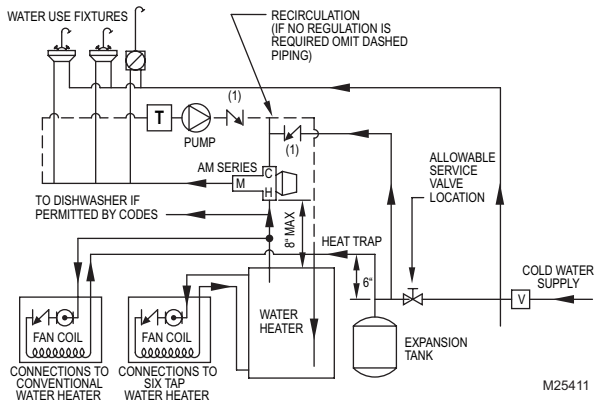

Fig. 6. Water Heater used for Domestic Water and Heating

OPERATION

The AM-1 1070 Series valve provides for automatic operation through the use of a thermostatic element in the product. The element will control the mixing of the hot and cold supply water to provide mixed, tempered, water to connected fixtures. This provides constant water temperature under different working conditions.

Thermostrip temperature indicator easily indicates water temperature 110° - 140° F (43° - 60° C) for accurate control and quick set-ups.

Thermostrip Installation Instructions

Clean pipe to mix outlet of valve and firmly apply Thermostrip. Flow water and adjust mixed outlet temperature for desired setting range. Actual mixed water temperature is indicated in green with 2° F and 1° C increments. Blue means slightly lower and brown means slightly higher.