Table 1. AM-1 Union Connections.

Product Number	Size in.	Connection Type	Max Flow GPM	Cv in.	A in. (mm)	B in. (mm)	C in. (mm)
AM100R-US-1	1/2	Union Sweat	8	3.9	3.15 (80)	2.7 (69)	4.4 (112)
AM101R-US-1	3/4		12			2.9 (73)	4.9 (124)
AM102R-US-1	1		16			3.5 (89)	6.1 (155)
AM100R-UT-1	1/2	Union Threaded	8			2.9 (73)	4.8 (122)
AM101R-UT-1	3/4		12			3.8 (97)	6.5 (165)
AM102R-UT-1	1		16			3.9 (99)	7.0 (178)
AM100R-UPEX-1	1/2	Union PEX	8			3.1 (79)	5.3 (135)
AM101R-UPEX-1	3/4		12			3.1 (79)	5.3 (135)

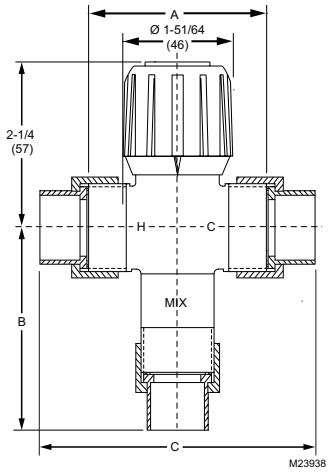


Fig. 1. Dimension Diagram.

VALVE ADJUSTMENT

To adjust temperature setting of the mixing valve. Loosen hand wheel screw, lift handwheel and turn to desired temperature, push the hand wheel on the retighten screw.

APPLICATION

The AM-1 SERIES “R Model” - Heating Only is a valve for heating applications **ONLY.**

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 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 (69 kPa).

TYPICAL INSTALLATION DIAGRAMS

Space Heating

Boiler must operate at a water temperature higher than the desired temperature in the heating system in order to perform at maximum efficiency.
Example: Radiant floor heating.

SYMBOLS

1 = Check Valve/Flow Check

2 = Alternate Pump Location

T= Pump Control Thermostats

NOTES:

- Install recirculation pump between last fixture and water heater.
- Use a pump control thermostat where shown. Recirculation pump should not run continuously.

ORDERING INFORMATION

When purchasing replacement and modernization products from your TRADELINE® wholesaler or distributor, refer to the TRADELINE® Catalog or price sheets for complete ordering number.

If you have additional questions, need further information, or would like to comment on our products or services, please write or phone:

1. Your local Honeywell Automation and Control Products Sales Office (check white pages of your phone directory).
2. Honeywell Customer Care
   1885 Douglas Drive North
   Minneapolis, Minnesota 55422-4386

In Canada—Honeywell Limited/Honeywell Limitée, 35 Dynamic Drive, Toronto, Ontario M1V 4Z9.
International Sales and Service Offices in all principal cities of the world. Manufacturing in Australia, Canada, Finland, France, Germany, Japan, Mexico, Netherlands, Spain, Taiwan, United Kingdom, U.S.A.

Mixing Applications (Constant Supply Temperature)

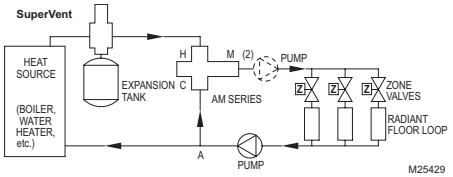
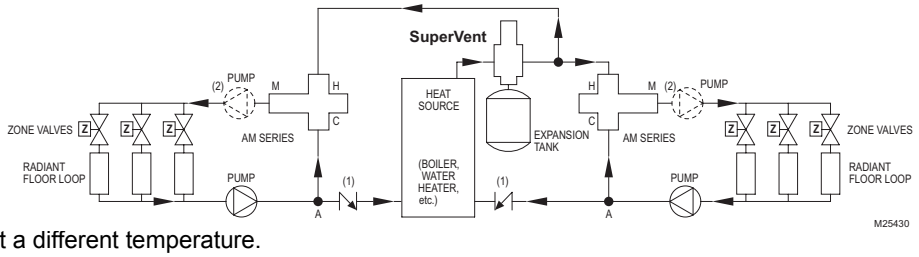


Fig. 2. Single Loop.

CAUTION

Do Not Install Pump Between Connection “A” and Heat Source.

The installation of the pump at this point would result in NO FLOW through the radiation loop(s).



Each loop operates at a different temperature.

Fig. 3. Multiple Loops.

Diverting Application (Constant Return Temperature)

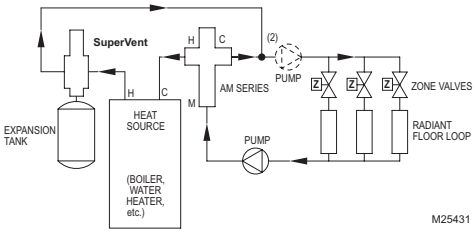


Fig. 4. Single Loop for Multiple Loops.

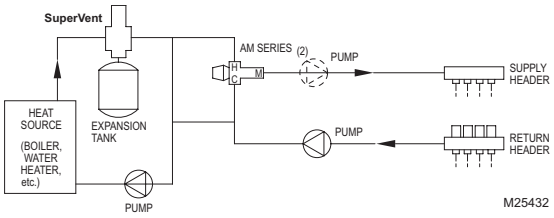


Fig. 5. AM-1 Primary/Secondary Application.

WARNING

To ensure proper application and usage, the Honeywell AM-1 “R” model mixing valves are designed for HEATING ONLY applications and should never be used for Domestic Hot Water as temperature and product usage far exceed safe water temperature limitations. Water temperatures above 120° F (49° C) can cause serious injury. Mixing valve temperature setting should be done by licensed contractor per local code requirement.

Thermal temperature indicator strip is One Time use only for initial system temperature setting. Check date code printed on temperature strip to ensure temperature reading accuracy.

Fig. 6. Thermostrip Temperature Indicator.

OPERATION

The AM-1 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 mixing tempered water to connected water control devices. This provides constant water temperature under different working conditions.

Thermostrip temperature indicator easily indicates water temperature 105° - 180° F (41° - 82° 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 5° F (15° C) increments. Blue means slightly lower and brown slightly higher.

VALVE MAINTENANCE

Hard water conditions may results in scale deposits causing binding of internal parts in extreme cases. Cleaning the internal parts will usually restore the valve operating conditions. In some cases it may be necessary to replace the lower assembly.