



Instruction Sheet

102-374

M Series Zone Valves

SUPERSEDES: January 15, 2010

EFFECTIVE: November 1, 2010

Plant I.D. 001-3943

APPLICATION:

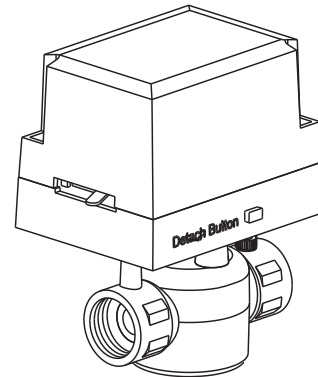
The M Series zone valves provide on/off, normally closed control in closed hot or chilled water Hydronic systems. The valves can be used in a wide variety of applications, primarily designed for use with fan coils, radiators, convectors, air handlers, heat pumps and radiant systems. The valve is driven by a hysteresis synchronous motor with spring return.

NOTE: Not for use in open systems or closed systems with a high content of dissolved oxygen. Installations must be a non-condensing application

TECHNICAL DATA:

Working Media	Chilled Water / Hot Water / up to 50% Glycol
Fluid Temperature	36 - 201 °F
Max. Static Pressure	250 PSI
Input Voltage	24VAC @ 50/60 Hz
Power	6.5 Watts
Operation Timing	Motor - fully open in approximately 15 sec. Spring - 5 sec. to 15 sec. after power off
Ambient Temperature	32 - 140 °F
Storage Temperature	4 - 149 °F Max. Rh, no condensation

M SERIES ZONE VALVE



MATERIALS OF CONSTRUCTION:

Valve Body	Forged Brass
Seal Material	EPDM
Chassis and Cover	Fire-retardant ABS Engineered Plastic

AVAILABLE MODELS:

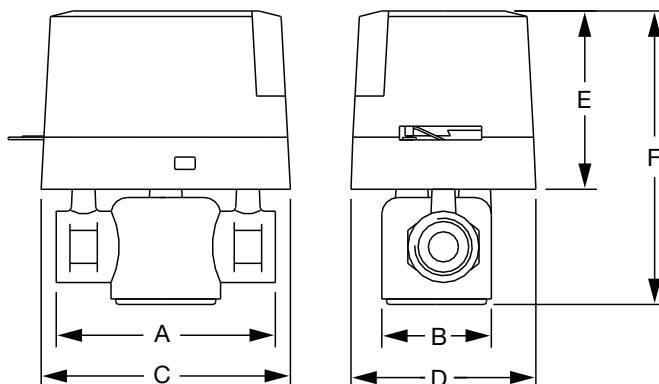
M Series Zone Valves are available in 2 way sweat configurations and in three sizes – 1/2", 3/4", 1".

SPECIFICATIONS AND DATA:

MODEL	TYPE	C _v	SIZE	CLOSE-OFF PRESSURE	POWER SUPPLY	END SWITCH RATING
M050C2	Normally Closed 2-way	3.7	1/2"	29 PSI	24 VAC 50 - 60 Hz	250 VAC 3 AMPS
M075C2		3.7	3/4"	29 PSI		
M100C2		8.0	1"	11.6 PSI		

DIMENSIONS:

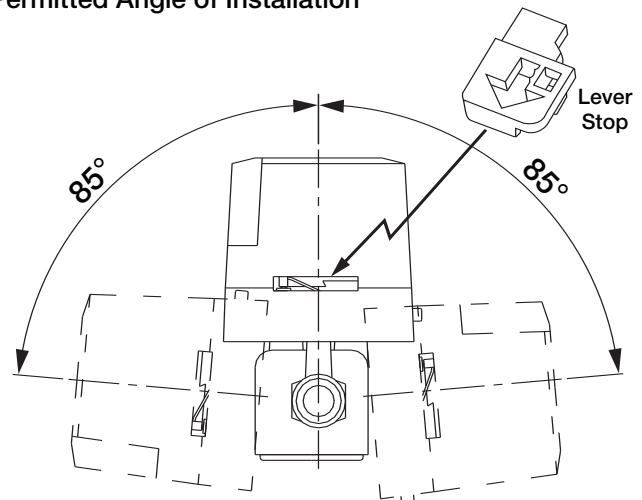
MODEL	DIMENSIONS (inches)					
	A	B	C	D	E	F
1/2", 2 - way	3.1	1.6	3.6	2.7	2.6	4.3
3/4", 2 - way	3.1	1.6	3.6	2.7	2.6	4.3
1", 2 - way	3.5	1.8	3.6	2.7	2.6	4.4



INSTALLATION:

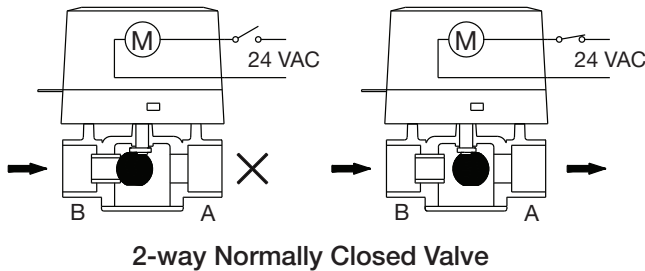
NOTICE: After installation, you must remove the lever stop before the valve is used.

Permitted Angle of Installation



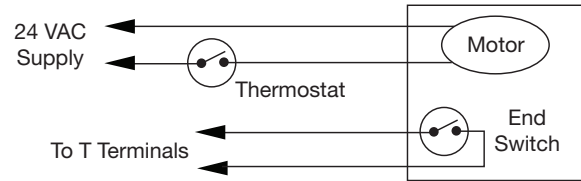
INSTALLATION (cont.):

Valves must be installed in the correct flow orientation as indicated here and on the factory nameplate.



WARNING: DO NOT USE ZONE VALVES ON INDIRECT WATER HEATERS WITHOUT A TEMPERING DEVICE.

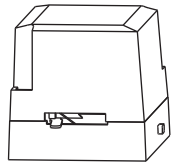
WIRING DIAGRAM:



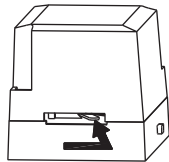
24 VAC Actuator Wiring Detail with End Switch

ATTACH ACTUATOR:

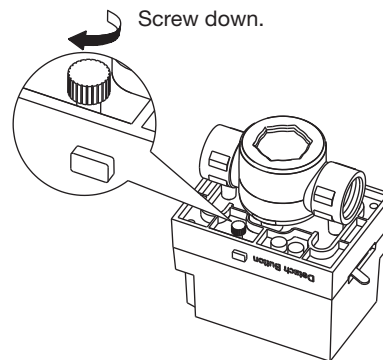
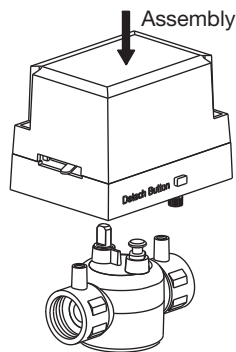
NOTE: Remove the actuator before sweating the valve to the piping system. Use a solder with a melting point below 600°F. **DO NOT OVERHEAT.**



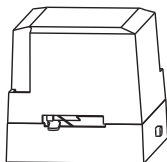
The normal position of the lever is at position **AUTO**.



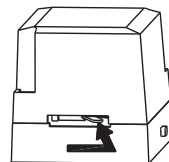
Push the lever to position **MANU** and fix it in the notch.



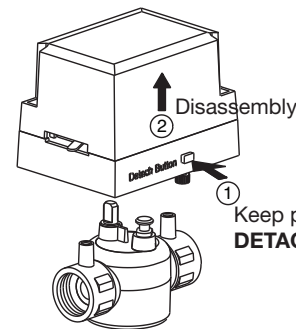
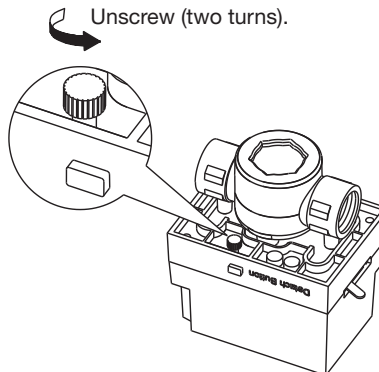
REMOVE ACTUATOR:



The normal position of the lever is at position **AUTO**.



Push the lever to position **MANU** and fix it in the notch.



Keep pressing the **DETACH BUTTON**.

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