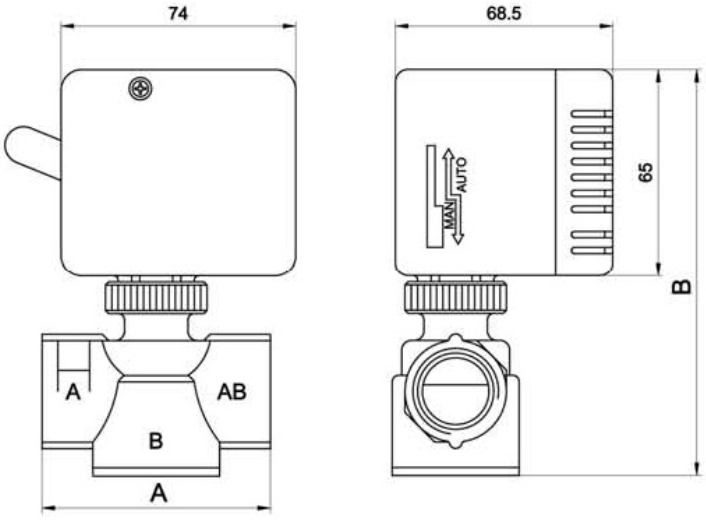
Motor-Driven On-Off Zone Valves

Installation Instructions

Dimensions in mm



	A				B			
Valve Size	2-Way		3-Way		2-Way		3-Way	
1/2" BSP	66	(2-5/8”)	66	(2-5/8”)	125	(4-15/16”)	142	(5-5/8”)
3/4” BSP	72	(2-13/16”)	72	(2-13/16”)	128	(5-1/32”)	147	(5-25/32”)
1” BSP	89	(3-1/2”)	89	(3-1/2”)	133	(5-15/64")	154	(6-1/16”)

Mounting

The valves can be mounted in horizontal or vertical piping. When installed in horizontal piping, the actuator must be above the valve body and can be tilted left or right but it must not be tilted below 85º from vertical. **Notes:**

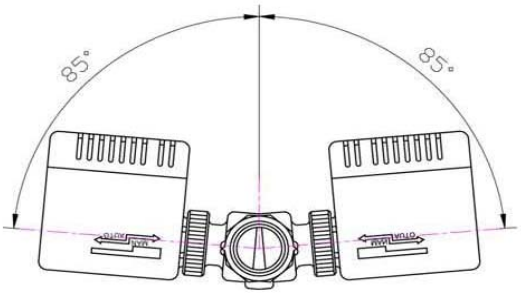
- Make certain there is no overhead water source that may drip onto valve actuator.
- In normal service, as some condensation may occur on or around the valve, the valve must be installed over a drip pan.
- For maintenance purposes, install the valve with sufficient headroom to allow complete valve actuator removal.

Manual Operating Lever

All zone valves are equipped with a manual operating lever. This lever:

- allows the valve to be opened for system flushing before it is put into operation and
- resets to normal position the first time the valve is powered up.

Mounting Orientation



In horizontal piping applications, mount the valve within 85º of the upright position.

PIPING & INSTALLATION

The zone valves must be piped so that the plug always closes against the direction of flow. Refer to Fig.3 to Fig.5. The valves are designed for application in closed hydronic heating and cooling systems and are not recommended for use in systems requiring high amounts of make-up water (open systems). High levels of dissolved oxygen and chlorine found in open systems may attack the valve materials and result in premature failure.

Notes:

- 2-way and 3-way valves are always closed at Port “A” when no power is applied to the motor.
- On power-up, the valve closes to Port “B” on 3-way valves.
- Orient the 3-way valve body as needed for normally-closed or normally-open flow through coil.

Fig. 1: 2-Way Valve Piped Normally-Closed to the Coil

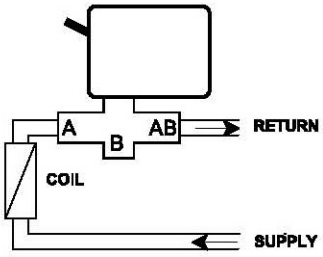


Fig. 2: 3-Way Valve in Mixing Configuration Normally-Closed to the Coil

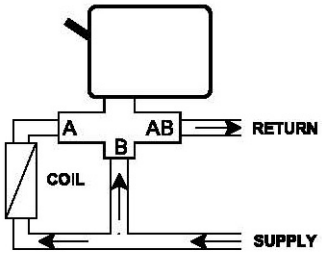


Fig.5: 3-Way Valve in Mixing Configuration Normally-Open to the Coil