Honeywell V8043F1036

Honeywell V8043F1036 3/4" Sweat Zone Valve Instruction Manual

Product Overview

The Honeywell V8043F1036 is a 3/4-inch sweat zone valve designed for controlling the flow of water in heating and cooling systems. It features screw terminals for electrical connections and an end switch for system integration. The valve includes a manual opener for operation during power failures, which automatically resets to the automatic position once power is restored. Its compact design facilitates easy installation, and the actuator motor can be replaced without disassembling the valve body or draining the system. The valve body is a two-way, straight-through, normally closed type.

Image: Honeywell V8043F1036 3/4" Sweat Zone Valve with Screw Terminals.

Important Safety Information

- **Electrical Hazard:** Disconnect power supply before installation or servicing to prevent electrical shock or equipment damage.
- **Professional Installation:** Installation should be performed by a qualified technician in accordance with local codes and regulations.
- **System Pressure:** Ensure the system is depressurized before attempting to install or remove the valve to prevent water damage.
- **Operating Limits:** Do not exceed the specified operating pressure and temperature limits of the valve.
- **Wiring:** Follow all wiring diagrams and instructions provided with the product and by the system manufacturer.

What's in the Box

- Honeywell V8043F1036 3/4-Inch Sweat Zone Valve with Screw Terminals and End Switch

Installation Instructions

Proper installation is crucial for the safe and efficient operation of the zone valve. It is recommended that installation be carried out by a certified HVAC professional.

Pre-Installation Checks

- Verify that the valve model (V8043F1036) matches your system requirements.
- Ensure the power to the heating/cooling system is completely off at the main breaker.
- Confirm that the system pressure is relieved and the lines are drained if replacing an existing valve.
- Gather necessary tools: pipe cutter, soldering equipment, flux, solder, wire strippers, screwdriver.

Installation Steps

1. **Prepare Piping:** Cut and clean the ends of the 3/4-inch pipes where the valve will be installed. Ensure they are free of burrs and debris.
2. **Apply Flux:** Apply a thin, even coat of flux to the outside of the pipes and the inside of the valve's sweat connections.
3. **Position Valve:** Insert the valve into the piping, ensuring the flow arrow on the valve body aligns with the direction of water flow in the system.
4. **Solder Connections:** Heat the joint evenly with a torch and apply solder until it flows completely around the joint, creating a watertight seal. Allow to cool naturally.
5. **Wiring:** Connect the thermostat wires to the screw terminals on the valve's power head. Refer to the system's wiring diagram for correct connections, typically involving two-wire thermostat control and an end switch.
6. **Test System:** Once all connections are secure and dry, slowly refill the system and check for leaks. Restore power and test the valve's operation with the thermostat.

Operating Your Zone Valve

Normal Operation

The Honeywell V8043F1036 zone valve operates automatically in response to a call for heat or cool from the thermostat. When the thermostat signals, the valve's actuator motor opens the valve, allowing water to flow to the designated zone. Once the thermostat's demand is met, the valve closes, stopping the flow.

Manual Operation (Power Failure)

In the event of a power failure, the valve is equipped with a manual opener. This allows for temporary manual operation of the valve. To engage the manual opener, locate the lever on the power head and move it to the manual open position. The valve will remain open until power is restored, at which point it will automatically return to its automatic operating mode.

Maintenance

The Honeywell V8043F1036 zone valve is designed for reliable, long-term operation with minimal maintenance. Regular system checks by a qualified technician are recommended to ensure optimal performance of your HVAC system, including all its components. The actuator motor may be replaced independently without needing to drain the system or remove the valve body.

Troubleshooting

Problem	Possible Cause	Solution
Valve does not open or close	No power to the valve; faulty thermostat; seized motor; wiring error.	Check power supply and thermostat settings. Verify wiring connections. If motor is seized, consider replacing the power head.
Valve leaks at connections	Improperly soldered joints; damaged valve body.	Drain system and re-solder connections. If valve body is damaged, replacement may be necessary.
System not heating/cooling properly in zone	Valve not fully opening/closing; air in system; thermostat malfunction.	Check valve operation. Bleed air from the system. Test thermostat for proper function.
Valve makes unusual noise	Motor wear; debris in valve.	If noise persists, consider replacing the power head. Consult a professional for inspection.

Technical Specifications

Specification	Detail
Model Number	V8043F1036
Brand	Honeywell
Inlet Connection Size	0.75 Inches
Inlet Connection Type	Sweat
Outlet Connection Size	0.75 Inches
Outlet Connection Type	Sweat
Material	Brass Body And Seat, Stainless Steel Stem, Buna-N
Item Dimensions (L x W x H)	1 x 2 x 3 inches
Item Weight	1 pounds
Specification Met	UL
Electrical	24V, 4-Wire, 3.5CV (as per product description)
Features	Screw Terminals, End Switch, Manual Opener

Warranty and Customer Support

Honeywell products are manufactured to high-quality standards and are backed by a manufacturer's warranty. For specific warranty details, please refer to the documentation included with your purchase or visit the official Honeywell website. For technical assistance, troubleshooting, or to inquire about replacement parts, please contact

Honeywell customer support directly. Keep your model number (V8043F1036) and purchase information readily available when contacting support.