Pentair R172060

Pentair R172060 Control Valve Instruction Manual

Model: R172060
Brand: Pentair

Introduction

This manual provides instructions for the installation, operation, and maintenance of the Pentair R172060 1/4-Inch NPT Control Valve. This valve is designed as a replacement part for Rainbow Automatic Chlorine/Bromine Pool and Spa Feeders.

Safety Information

WARNING:

- Always disconnect power to the feeder system before attempting any installation or maintenance.
- Wear appropriate personal protective equipment, including eye protection and gloves, when handling pool chemicals and components.
- Ensure all connections are secure and leak-free before restoring system operation.
- Refer to the main feeder system's manual for specific safety guidelines related to chemical handling.

Product Overview

The Pentair R172060 control valve is a critical component for regulating the flow of chemicals in your pool or spa feeder. It features a durable plastic construction and a rotary knob for flow adjustment.



Figure 1: Front view of the Pentair R172060 control valve, showing the black body, white adjustment knob, and threaded connections. The knob has "MAX" and "CLOSE" indicators.



Figure 2: Top view of the control valve, highlighting the adjustment dial with numerical settings from 1 to 5, along with "MAX" and "CLOSE" indicators, allowing precise flow regulation.

Setup and Installation

1. **Preparation:** Ensure the pool or spa feeder system is turned off and depressurized. Close any existing valves to prevent chemical leaks.
2. **Remove Old Valve:** Carefully unscrew and remove the existing control valve from the feeder system. Be prepared for any residual chemical drainage.
3. **Inspect Connections:** Check the threads on the feeder system and the new valve for any debris or damage.
4. **Install New Valve:** Thread the new Pentair R172060 control valve into the appropriate port on the feeder. The valve features a 1/4-Inch NPT inlet connection and a compression outlet connection. Hand-tighten first, then use a wrench for a snug, leak-free fit. Do not overtighten.
5. **Connect Outlet:** Attach the compression fitting from the feeder's outlet hose to the compression side of the new valve. Ensure the connection is secure.



Figure 3: The control valve shown with its separate compression fitting, illustrating how the outlet hose connects to the valve.

Operating Instructions

The control valve allows you to adjust the flow rate of chemicals from your feeder into the pool or spa system.

1. **Initial Setting:** After installation, ensure the valve is in the "CLOSE" position before restoring pressure to the system.
2. **Restore System Pressure:** Slowly open any main feeder system valves to allow water pressure to return. Check for leaks around the newly installed control valve.
3. **Adjust Flow:** Rotate the white knob to adjust the chemical flow. Turning towards "MAX" increases the flow, while turning towards "CLOSE" reduces or stops it. Use the numbered indicators (1-5) for precise adjustments based on your pool's chemical requirements and testing results.
4. **Monitor Chemical Levels:** Regularly test your pool or spa water to ensure proper chemical balance. Adjust the valve as needed to maintain desired levels.

Maintenance

The Pentair R172060 control valve is designed for durability, but periodic inspection and cleaning can extend its lifespan.

- **Regular Inspection:** Periodically check the valve for any signs of leaks, cracks, or wear.
- **Cleaning:** If chemical buildup or debris is observed, turn off the feeder system, depressurize, and carefully remove the valve. Rinse with clean water. Do not use harsh abrasives or solvents.
- **Seal Integrity:** Ensure the O-rings and seals are in good condition. Replace if they appear cracked or brittle.

Troubleshooting

Problem	Possible Cause	Solution
Valve is leaking	Loose connections; Damaged O-rings/seals; Cracked valve body	Tighten connections; Replace O-rings/seals; Replace valve if cracked.
No chemical flow	Valve is closed; Obstruction in valve or feeder line	Open valve; Inspect and clear any obstructions.
Inconsistent chemical flow	Partial obstruction; Incorrect valve setting	Inspect and clear partial obstructions; Adjust valve setting as needed.

Specifications

Model Number: R172060

Material: Plastic

Valve Type: Control Valve

Inlet Connection Type: National Pipe Tapered (NPT)

Inlet Connection Size: 1/4-Inch NPT

Outlet Connection Type: Compression

Number of Ports: 2

Product Dimensions (L x W x H): 7 x 6.5 x 7 inches (approximate, as per product listing)

Item Weight: 0.634 ounces

Certifications: ASSE, NSF, UL (where applicable)

Country of Origin: United States

Warranty Information

Pentair products are manufactured to high standards and are backed by a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Pentair website. Keep your proof of purchase for warranty claims.

Customer Support

For technical assistance, replacement parts, or further information, please contact Pentair Customer Service or visit their official website:

Pentair Official Website: www.pentair.com
When contacting support, please have your product model number (R172060) and purchase date available.