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quakadjs HV074A

Instruction Manual for Ice Machine Water Valve

Brand: quakadjs | Model: HV074A

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the quakadjs Ice Machine Water Valve, model HV074A. This valve is a replacement part designed for compatibility with various ice machine models, including Hoshizaki and Scotsman units. Please read this manual thoroughly before attempting any installation or maintenance to ensure safe and proper functioning of the component.

PRODUCT OVERVIEW

The quakadjs Ice Machine Water Valve (Part number HV074A) is a critical component for controlling water flow within commercial ice machines. It is designed as a direct replacement for original parts such as Hoshizaki 000014063 (14063) and Scotsman 11-0564-02. The valve features a robust metal construction and a 240 Volt, 12 Watt coil, ensuring reliable performance in demanding environments.

- **Ice Machine Water Valve:** Compatible with part numbers 000014063 and 11-0564-02.
- **Replacement Part:** Specifically designed as a replacement ice machine water dump valve.
- **Versatile Coil Positioning:** The coil can be positioned in multiple orientations by removing a pin, offering flexibility during installation.
- **Electrical Rating:** Coil is rated for 240 Volts and 12 Watts.
- **Adjustable Mounting:** Includes an adjustable mounting bracket for ease of installation.
- **High Compatibility:** Compatible with Hoshizaki 000014063, 14063, and Scotsman 11-0564-02 models.
- **Reliable Performance:** Constructed from sturdy and durable metal, subjected to strict quality inspection to ensure long-term smooth operation.



Figure 1: Front view of the Ice Machine Water Valve, model HV074A.



Figure 2: Side view of the valve, highlighting the electrical connections for the coil.



Figure 3: Disassembled view showing the main components: the coil, valve body, and mounting bracket.

SETUP AND INSTALLATION

Installation of the water valve should only be performed by qualified personnel. Always disconnect power to the ice machine and shut off the water supply before beginning any installation or maintenance procedures. Refer to your ice machine's specific service manual for detailed instructions on accessing and replacing the water valve.

1. **Safety First:** Ensure all power and water supplies to the ice machine are completely disconnected.
2. **Access Valve:** Locate and access the existing water valve within the ice machine. This may require removing panels or other components.
3. **Disconnect Old Valve:** Carefully disconnect the electrical wiring and water lines from the old valve. Be prepared for residual water.
4. **Remove Old Valve:** Unmount the old valve from its position.
5. **Install New Valve:** Mount the new quakadjs HV074A valve using the adjustable mounting bracket. Ensure it is securely fastened.
6. **Connect Wiring:** Connect the 240 Volt electrical wiring to the coil terminals. The coil can be rotated for optimal wire routing.
7. **Connect Water Lines:** Reconnect the water inlet and outlet lines to the valve. Ensure all connections are tight to prevent leaks.
8. **Test:** Restore water supply and power. Carefully check for leaks and proper operation.



Figure 4: Rear view of the valve, illustrating the adjustable mounting bracket for secure installation.

OPERATING PRINCIPLES

The water valve operates as an electrically controlled solenoid valve. When the ice machine's control system sends an electrical signal (240 Volts) to the valve's coil, the coil energizes, creating a magnetic field. This magnetic field actuates a plunger inside the valve, opening or closing the water pathway. This allows for precise control of water flow into the ice machine's water reservoir or for draining cycles, depending on the machine's design and operational phase.



Figure 5: Close-up view of the solenoid coil, which is the electrical component responsible for actuating the valve.

MAINTENANCE

The quakadjs water valve is designed for durability and reliable performance. Regular maintenance of your ice machine, as recommended by the manufacturer, will help ensure the longevity of all components, including the water valve. Periodically inspect the valve and its connections for any signs of leaks, corrosion, or wear. Ensure electrical connections remain secure and free from moisture.

- **Visual Inspection:** Regularly check the valve for any visible signs of damage, leaks, or mineral buildup.
- **Connection Integrity:** Ensure all water line connections are tight and free of drips.
- **Electrical Check:** Verify that electrical terminals are clean, dry, and securely connected.
- **Cleaning:** If mineral deposits are observed, consult your ice machine's manual for recommended descaling procedures, which may indirectly affect valve performance.

TROUBLESHOOTING

If your ice machine is experiencing issues related to water flow, the water valve may be a contributing factor. Before troubleshooting the valve, ensure that the ice machine's main power and water supply are active and that there are no issues with the primary water source.

- **No Water Flow:** Check if the valve coil is receiving the correct 240V power when it should be open. A faulty coil or control signal can prevent the valve from opening.
- **Continuous Water Flow (Valve Not Closing):** This could indicate debris lodged in the valve, preventing it from fully closing, or a faulty valve mechanism.
- **Leaks:** Inspect all connections for proper sealing. If the leak is from the valve body itself, the valve may need replacement.
- **Unusual Noises:** Buzzing or humming from the coil is normal during operation. Excessive or unusual noises might indicate an issue with the coil or internal valve components.

For complex issues or if you are unsure about performing repairs, it is recommended to contact a certified technician.

SPECIFICATIONS

Attribute	Value
Part Number	HV074A (Choice Manufactured Part number)
Compatible Part Numbers	Hoshizaki 000014063, 14063; Scotsman 11-0564-02
Coil Voltage	240 Volts
Coil Wattage	12 Watts
Material	Metal
Exterior Finish	Stainless Steel
Inlet Connection Size	1 Inches
Inlet Connection Type	Flange
Outlet Connection Size	1 Inches
Outlet Connection Type	Flange
Number of Ports	2
Valve Type	Globe Valve



Figure 6: Bottom view of the valve, showing the outlet connection and overall robust construction.

COMPATIBILITY

This replacement ice machine water valve, model HV074A, is specifically engineered to be compatible with a range of commercial ice machines. It serves as a direct replacement for the following original equipment manufacturer (OEM) part numbers:

- **Hoshizaki:** 000014063, 14063
- **Scotsman:** 11-0564-02

Always verify the part number required for your specific ice machine model before purchasing and installing to ensure proper fit and function.

WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or replacement parts for your Quakadjs Ice Machine Water Valve, please refer to the contact information provided by your retailer or the manufacturer. Keep your purchase receipt as proof of purchase for any warranty claims.