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› Hayward GVA24 Goldline Valve Actuator User Manual

## Hayward GVA-24

# Hayward GVA24 Goldline Valve Actuator User Manual

Model: GVA-24

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## 1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Hayward GVA24 Goldline Valve Actuator. Please read these instructions thoroughly before beginning installation or operation to ensure proper function and to prevent potential hazards.

The Hayward GVA24 Goldline Valve Actuator is designed to automate the control of 2-way and 3-way diverter valves in swimming pool and spa systems. It allows for precise and reliable water flow management, enhancing the functionality of your pool or spa equipment.

## 2. PRODUCT OVERVIEW

The Hayward GVA24 Goldline Valve Actuator, part number GVA-24 / AQSV-GVA-24, is a 24-volt device manufactured by Hayward Pool Products, Inc. It is specifically designed for use with swimming pool and spa systems to control water flow through diverter valves.



**Figure 1:** Hayward GVA24 Goldline Valve Actuator. This image shows the compact design of the valve actuator, highlighting its robust casing and the attached 15-foot cable for electrical connection.

### 3. SAFETY INFORMATION

**WARNING:** Always disconnect power to the pool/spa equipment at the circuit breaker before attempting any service or installation. Failure to do so can result in serious injury or death.

- Installation must be performed by a qualified professional in accordance with all local and national electrical codes.
- Ensure the power supply matches the actuator's voltage requirements (24V).
- Do not operate the actuator if it is damaged or has exposed wiring.
- Keep children away from pool/spa equipment during operation and maintenance.
- Refer to the pool/spa system's main control panel manual for specific wiring and programming instructions.

### 4. SETUP & INSTALLATION

Proper installation is crucial for the reliable operation of your GVA24 actuator. Follow these general steps:

1. **Power Disconnection:** Turn off all power to the pool/spa system at the main circuit breaker. Verify power is off using a voltage tester.
2. **Mounting the Actuator:**
  - The actuator is designed to mount directly onto most standard 2-way and 3-way diverter valves.
  - Align the actuator's shaft with the valve's stem.
  - Secure the actuator to the valve body using the provided mounting hardware. Ensure it is firmly seated and does not wobble.
3. **Wiring:**
  - Connect the 15-foot cable from the actuator to the appropriate 24V output terminals on your pool/spa control system.
  - Refer to your control system's manual for specific wiring diagrams and terminal designations.
  - Ensure all electrical connections are secure and protected from moisture.
4. **Valve Alignment and Stop Setting:**
  - The actuator allows for adjustment of its rotation stops to match the specific requirements of your diverter valve.
  - Manually rotate the valve stem to its desired open and closed positions.
  - Adjust the actuator's internal cams or limit switches (refer to the detailed diagram inside the actuator cover, if applicable) to correspond with these valve positions. This ensures the actuator does not over-rotate or under-rotate the valve.
  - This step is critical for proper water flow direction and preventing damage to the valve or actuator.
5. **Initial Testing:**
  - Once installation and wiring are complete, restore power to the system.
  - Initiate a manual cycle or program a test sequence through your pool/spa control system to observe the actuator's movement.
  - Verify that the valve rotates fully to the desired positions and that water flow is correctly diverted.

## 5. OPERATING INSTRUCTIONS

The Hayward GVA24 Goldline Valve Actuator operates under the command of your pool/spa control system. It does not have independent controls.

- **Automatic Operation:** Once installed and configured with your control system, the actuator will automatically move the diverter valve to direct water flow based on programmed schedules or system demands (e.g., switching between pool and spa, activating solar heating).
- **Manual Override:** Most actuators include a manual override lever or knob. In case of power failure or for maintenance, you can typically disengage the motor and manually rotate the valve. Refer to the actuator's housing for specific instructions on engaging the manual override.
- **Control System Interface:** All operational commands, such as changing valve positions or setting schedules, are performed through your pool/spa's main control panel or associated remote/app interface. Consult your control system's user manual for detailed operating instructions.

## 6. MAINTENANCE

The Hayward GVA24 Goldline Valve Actuator is designed for minimal maintenance. However, periodic checks can ensure its longevity and reliable performance.

- **Visual Inspection:** Periodically inspect the actuator for any signs of physical damage, corrosion, or loose wiring connections.
- **Cable Integrity:** Check the 15-foot cable for cuts, abrasions, or signs of wear. Ensure it is securely connected and protected from environmental elements.
- **Valve Operation:** Observe the actuator's movement during normal operation. It should move smoothly and consistently to its programmed positions. If you notice jerky movements or incomplete rotations, refer to the troubleshooting section.
- **Cleaning:** Keep the exterior of the actuator clean and free from debris. Use a damp cloth; do not use harsh chemicals or abrasive cleaners.
- **Lubrication:** The internal gears are typically factory-lubricated and sealed. Do not attempt to lubricate internal components unless specifically instructed by Hayward technical support.

## 7. TROUBLESHOOTING

Before contacting technical support, review the following common issues and solutions:

Problem	Possible Cause	Solution
Actuator does not move.	No power, faulty wiring, control system issue, internal motor failure.	Check circuit breaker. Verify 24V power supply to actuator. Inspect wiring connections. Consult control system manual. If power is present and wiring is correct, contact Hayward support.
Actuator moves partially or incorrectly.	Incorrect stop settings, debris in valve, worn valve seals, control system programming error.	Re-check and adjust valve stop settings (Section 4). Inspect valve for obstructions. Check valve seals for wear. Verify control system programming.
Actuator makes unusual noises.	Internal gear wear, motor issue, valve binding.	Ensure the valve operates smoothly manually (with power off and actuator disengaged). If noise persists, contact Hayward support.

## 8. SPECIFICATIONS

Key technical specifications for the Hayward GVA24 Goldline Valve Actuator:

Specification	Value
Model Number	GVA-24
Part Numbers	GVA-24 / AQSV-GVA-24
Voltage	24V
Cable Length	15 feet
Number of Ports (compatible valves)	3
Connector Type	Plug

Specification	Value
Certifications	CSA, UL
Item Weight	3.14 Pounds
Manufacturer	Hayward

## 9. WARRANTY & SUPPORT

For specific warranty information regarding your Hayward GVA24 Goldline Valve Actuator, please refer to the warranty card included with your product or visit the official Hayward website. Warranty terms and conditions may vary.

If you require technical assistance, have questions about installation, operation, or need to report a product issue, please contact Hayward Customer Support:

- **Hayward Official Website:** [www.hayward-pool.com](http://www.hayward-pool.com)
- **Customer Service:** Refer to the website for current contact numbers and support options.