



Manuals.plus /

› AquaStar /

› Control Valve, Aquastar ChemStar CH100, 1/2" CH1019 User Manual

## AquaStar CH100

# AquaStar ChemStar CH100 Control Valve User Manual

Model: CH100 | Part Number: CH1019

## 1. INTRODUCTION

---

This manual provides essential information for the proper installation, operation, and maintenance of your AquaStar ChemStar CH100 Control Valve. This 1/2" control valve is designed as a replacement part to ensure the continued efficient operation of your swimming pool equipment. Please read this manual thoroughly before installation and use to ensure safety and optimal performance.

## 2. PRODUCT OVERVIEW

---

The AquaStar ChemStar CH100 is a durable globe valve constructed from stainless steel, featuring a two-port design with NPT (National Pipe Taper) connections. It includes a white control knob for adjusting flow, marked with 'ON' and 'OFF' indicators.



Figure 2.1: AquaStar ChemStar CH100 Control Valve. This image displays the black valve body with two threaded ports and the white control knob on top, indicating its ON/OFF functionality.

### 3. SAFETY INFORMATION

---

- Always disconnect power to pool equipment before installing or servicing the valve.
- Ensure proper plumbing connections to prevent leaks.
- Wear appropriate personal protective equipment (PPE) during installation and maintenance.
- Consult a qualified professional if you are unsure about any installation or maintenance procedures.
- Do not overtighten connections, as this may damage the valve or plumbing.

### 4. SETUP AND INSTALLATION

---

The AquaStar ChemStar CH100 Control Valve is designed for straightforward replacement or new installation in pool

plumbing systems. It features 1/2" NPT connections.

1. **Preparation:** Ensure the pool system is depressurized and drained from the area where the valve will be installed. Turn off all relevant pumps and power.
2. **Remove Old Valve (if applicable):** Carefully cut or unthread the existing valve from the plumbing lines. Clean the pipe ends thoroughly.
3. **Apply Sealant:** Apply appropriate thread sealant (e.g., PTFE tape or pipe dope) to the male NPT threads of the pipes that will connect to the valve.
4. **Install New Valve:** Thread the AquaStar ChemStar CH100 valve onto the prepared pipe ends. Ensure the valve is oriented correctly for desired flow direction (if applicable, though this is a globe valve, flow direction is typically indicated by an arrow on the body, if present). Hand-tighten, then use a wrench for a final snug fit, being careful not to overtighten.
5. **Leak Check:** Once installed, slowly repressurize the system and carefully inspect all connections for leaks. Tighten further if necessary, but avoid excessive force.

## 5. OPERATING INSTRUCTIONS

---

The AquaStar ChemStar CH100 Control Valve features a simple ON/OFF operation via its top-mounted white knob.

- **To Open (ON):** Rotate the white control knob counter-clockwise until the indicator aligns with the 'ON' marking. This allows full flow through the valve.
- **To Close (OFF):** Rotate the white control knob clockwise until the indicator aligns with the 'OFF' marking. This stops the flow through the valve.
- **Flow Adjustment:** While primarily an ON/OFF valve, partial rotation between 'ON' and 'OFF' can be used to throttle flow if precise control is needed, though it is not designed for fine flow regulation.

## 6. MAINTENANCE

---

Regular maintenance ensures the longevity and proper function of your control valve.

- **Periodic Inspection:** Routinely check the valve body and connections for any signs of leaks, cracks, or wear.
- **Operation Check:** Periodically operate the valve (open and close) to ensure the knob turns smoothly and the valve fully opens and closes.
- **Cleaning:** If the valve is exposed to harsh chemicals or debris, gently clean the exterior with a soft cloth and mild detergent. Avoid abrasive cleaners.
- **Winterization:** In colder climates, ensure the valve is drained and protected from freezing temperatures to prevent damage.

## 7. TROUBLESHOOTING

---

Problem	Possible Cause	Solution
Valve Leaks at Connections	Improperly sealed threads; damaged threads; overtightened connection.	Depressurize system, reapply thread sealant, and re-tighten connections. Inspect threads for damage and replace if necessary.
Valve Does Not Fully Open/Close	Internal debris; worn internal components.	Flush the system to clear debris. If problem persists, the valve may need replacement.
Reduced Flow Through Valve	Valve not fully open; partial obstruction.	Ensure valve is in the full 'ON' position. Check for debris in the plumbing system or within the valve.

## 8. SPECIFICATIONS

---

Attribute	Detail
Brand	AquaStar
Model Number	CH100
Part Number	CH1019
Material	Stainless Steel
Valve Type	Globe Valve
Number of Ports	2
Outlet Connection Type	NPT
Outlet Connection Size	0.5 Inches
Product Dimensions (L x W x H)	18.5 x 7.9 x 7.9 inches
Item Weight	7.26 pounds
UPC	883612078113
Manufacturer	AQUASTAR POOL PRODUCTS INC.

## 9. WARRANTY INFORMATION

---

AquaStar products are manufactured to high-quality standards. For specific warranty terms and conditions applicable to your ChemStar CH100 Control Valve, please refer to the warranty documentation included with your purchase or visit the official AquaStar website. Typically, warranties cover defects in materials and workmanship under normal use.

## 10. CUSTOMER SUPPORT

---

If you have any questions regarding the installation, operation, or maintenance of your AquaStar ChemStar CH100 Control Valve, please contact AquaStar customer support. For the most current contact information, please visit the official AquaStar website or refer to your product packaging.

You can also visit the AquaStar Store on Amazon for more information: [AquaStar Store](#)