Astralpool 22355

Astralpool Astral Multiport Valve Side Mount 1-1/2 inch User Manual

Model: 22355
Brand: Astralpool

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Astralpool Astral Multiport Valve Side Mount 1-1/2 inch, Model 22355. This valve is designed for use with swimming pool and spa filtration systems to control water flow for various functions such as filtering, backwashing, rinsing, and draining.
Please read this manual thoroughly before attempting to install or operate the valve to ensure safe and efficient use. Keep this manual for future reference.

Important Safety Information

- Always shut off the pump before operating the multiport valve. Failure to do so can cause severe damage to the valve and filtration system, and may result in personal injury.
- Ensure all electrical connections are made by a qualified electrician and comply with local codes.
- Do not operate the system if any part is damaged or missing.
- Keep children away from pool equipment during operation.
- Maintain proper water chemistry to prevent damage to pool equipment.
- Use only genuine Astralpool replacement parts.

Caution: The valve handle should be pressed down firmly before turning to change positions. Do not force the handle.

Product Overview and Components

The Astralpool Multiport Valve is a critical component of your pool's filtration system, allowing you to direct water flow for various operational modes. It features a robust design for durability and ease of use.



Figure 1: Astralpool Multiport Valve with included fittings and gaskets.

The valve assembly typically includes the main valve body, a handle for selecting functions, and various ports for connecting to the filter, pump, and waste line. Gaskets and connecting pipes are also supplied for installation.



Figure 2: Top view of the valve handle and function labels (Filter, Rinse, Waste, Closed, Recirculate, Winter).

The top of the valve features a rotating handle with clearly marked positions for different operational modes. These modes are essential for maintaining pool water clarity and system health.

Setup and Installation

Proper installation is crucial for the efficient and safe operation of your multiport valve. If you are unsure about any step, consult a qualified pool professional.

Tools and Materials Required:

- PVC cement and primer
- Teflon tape or pipe sealant
- Measuring tape
- Saw for PVC pipe
- Wrenches (if applicable for threaded connections)

Installation Steps:

1. **Prepare the Location:** Ensure the valve is installed in a dry, well-ventilated area, protected from direct sunlight and freezing temperatures. It should be easily accessible for operation and maintenance.
2. **Connect to Filter:** The multiport valve is typically mounted to the side of the filter tank. Ensure a secure, watertight connection using the provided fittings and gaskets. Apply Teflon tape or pipe sealant to threaded connections as needed.
3. **Connect to Pump:** Connect the "PUMP" port of the valve to the discharge side of your pool pump.
4. **Connect to Return Line:** Connect the "RETURN" port of the valve to the pool's return line.
5. **Connect to Waste Line:** Connect the "WASTE" port of the valve to a suitable waste or drain line, ensuring it complies with local plumbing codes. This line will carry dirty water during backwash and rinse cycles.
6. **Secure All Connections:** Double-check all connections for tightness and ensure there are no leaks. Allow adequate curing time for PVC cement if used.



Figure 3: Example of connecting pipes and gaskets used for installation.

Ensure proper alignment and use appropriate sealants for all pipe connections to prevent leaks. The side mount design allows for flexible plumbing configurations.

Operating Instructions

The multiport valve allows you to perform various functions for your pool's filtration system.**Always turn off the pump before changing the valve position.**

Valve Positions:

- **FILTER:** (Normal Operation) Water flows from the pump, through the filter media, and back to the pool. This is the primary operating mode for daily filtration.
- **BACKWASH:** (Cleaning Filter) Water flows in reverse through the filter media, dislodging trapped debris, and is then directed out the waste port. Use when filter pressure rises or flow decreases.
- **RINSE:** (After Backwash) Water flows through the filter media and out the waste port to flush out any remaining debris from the backwash cycle and settle the filter media. Always rinse after backwashing.
- **WASTE/DRAIN:** (Bypassing Filter) Water flows directly from the pump out the waste port, bypassing the filter. Used for draining the pool or vacuuming heavy debris directly to waste.
- **CLOSED:** (Shut Off) All flow to the filter and pool is stopped. Use when performing maintenance on the pump or filter, or when the pool is not in use for an extended period.
- **RECIRCULATE:** (Bypassing Filter) Water flows from the pump directly back to the pool, bypassing the filter. Used for circulating chemicals without filtering.
- **WINTER:** (Winterization) This position is used to relieve pressure on the internal valve components during winterization, preventing damage from freezing water. Consult your pool winterization guide for specific steps.

To change positions, press down firmly on the handle and rotate it to the desired setting. Release the handle to lock it in place.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your multiport valve.

- **Backwashing:** Perform backwashing when the pressure gauge on your filter reads 8-10 PSI above its clean operating pressure, or when water flow to the pool noticeably decreases.
- **Rinsing:** Always rinse for 30-60 seconds after each backwash cycle to clear the waste line and settle the filter media.
- **Lubrication:** Periodically inspect the valve's O-rings and gaskets for wear. Lubricate with a silicone-based lubricant designed for pool equipment if they appear dry or stiff.
- **Winterization:** In colder climates, ensure the valve is properly drained and set to the "WINTER" position (if available) or a neutral position to prevent freezing damage. Consult a pool professional for specific winterization procedures for your region.
- **Leak Checks:** Regularly inspect all connections for leaks. Address any leaks promptly to prevent water loss and potential damage to equipment or surrounding areas.

Troubleshooting

Problem	Possible Cause	Solution
Water leaking from valve handle or top	Worn spider gasket or O-rings; loose cover screws	Replace spider gasket or O-rings; tighten cover screws (do not overtighten)
Water leaking from pipe connections	Loose connections; improper sealant; cracked pipe/fitting	Tighten connections; re-apply sealant; replace damaged pipe/fitting
Valve handle difficult to turn	Lack of lubrication; debris under handle; worn internal components	Lubricate O-rings; inspect for debris; consult professional for internal repair

Problem	Possible Cause	Solution
Poor filtration or flow	Valve not fully seated in "FILTER" position; clogged filter; pump issue	Ensure handle is locked in "FILTER"; backwash/rinse filter; check pump operation

Specifications

- **Model:** 22355
- **Type:** Multiport Valve, Side Mount
- **Connection Size:** 1-1/2 inch
- **Product Dimensions:** 13.2 x 8.3 x 8.2 inches
- **Item Weight:** 4.87 pounds
- **Manufacturer:** ASTRAL PRODUCTS INC.
- **Part Number:** 22355 (Astral Products Inc.)
- **Catalog Part Number:** 4860-092

Warranty and Support

For specific warranty information regarding your Astralpool Multiport Valve, please refer to the documentation provided at the time of purchase or contact Astralpool directly. Warranty terms typically cover manufacturing defects for a specified period.

For technical support, replacement parts, or service inquiries, please contact Astralpool customer service or your authorized dealer. Ensure you have your model number (22355) and any relevant purchase details available when contacting support.

Manufacturer: ASTRAL PRODUCTS INC.

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