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> sixcow SP0714T VariFlo XL Top Mount Multiport Valve Instruction Manual

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Model: SP0714T | Brand: sixcow

1. PRODUCT OVERVIEW

The sixcow SP0714T VariFlo XL Top Mount Multiport Valve is designed as a replacement part for various above-ground pool sand filter systems, including Hayward Pro or VL Series Sand Filters with 1.5-inch FIP plumbing connections. This valve provides seven distinct control functions to manage your pool's filtration and maintenance processes efficiently.



Image 1.1: The sixcow SP0714T VariFlo XL Multiport Valve, featuring its handle, pressure gauge, and plumbing ports. This valve is a key component for managing pool sand filter operations.

2. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of your multiport valve. Ensure you have the correct valve model for your filter type and size before proceeding.

2.1 General Installation Steps

1. **Confirm Valve Compatibility:** Verify that this valve is suitable for your specific filter type and model.
2. **Install Valve to Filter:** Secure the bulkhead nuts on the valve to the fittings on the filter. **Tighten the nuts by hand only.**
3. **Connect Plumbing:** Connect the pump, return, and waste lines by following the markings on the ports.
4. **Pressure Gauge:** A pipe tap boss is provided for the optional use of a pressure gauge.
5. **Plumbing Connections:** Piping stops are provided. **IMPORTANT: Do not overtighten pipe fittings.** Proper

fitting make-up is hand tight plus one to 1-1/2 turns maximum. Always use Teflon pipe tape or Permatex No. 2 for connections to provide a good, "living" seal. Add extra sealant if male pipe fitting is undersized.

PRODUCT SPECIFICATIONS

Pressure gauge and GM600F Valve O-ring are included for the filter neck opening.

Part No.	Description
SPX0710XF	Handle
SPX0710XZ7	Handle Pin
SPX0710Z16	Non-Metallic Bearing (Pack of 5)
SPX0714G	Valve Position Label
SPX0714BA	Key, Cover and Handle Assembly
SPX0714Z1	Cover Screw (Set of 6)
SPX0714L	Cover O-Ring
SPX0735GA *	O-Ring Shaft Seal Assembly
SPX0710Z62	Spring Washers (Set of 2)
SPX0714CA	Key/Seal Assembly
SPX0714D	Diffuser
SPX0714A	Valve Body with Gasket and Sight Glass



Image 2.1: Visual guide for easy installation, showing key steps and components for connecting the valve to a sand filter system.

2.2 Valve Assembly and Reassembly

- **Valve Top Under Spring Load:** To open the top half and service the valve, evenly and alternately loosen the cover screws.
- **To Re-assemble the Top Half:** Place the diverter on a smooth and firm surface. Assemble parts on the shaft. Ensure the pointer on the handle and the arrow on the diverter point in the same direction. Press down the cover by depressing the heavy-duty spring and secure the handle with a dowel pin.
- **To Re-assemble the Top Half to Valve Bottom:** Ensure the bottom gasket and diverter sealing surface are clean and free from nicks to ensure a positive seal. Tighten cover screws evenly and alternately. **DO NOT OVERTIGHTEN THE SCREWS.**



SPECIAL INSTRUCTIONS:

1. Disassembly of key and handle assembly:
 - a. To remove handle pin: Depress handle to allow pin to clear indexing hub, and tap out handle pin with a drift pin or other solid pin bar.
 - b. Remove cover screws and remove parts. Note the proper position and sequence of all parts.
2. Re-assembly:
 - a. Place valve key on a smooth, firm surface (place a cloth underneath to protect the flat sealing surface).
 - b. Place parts on key and shaft in proper sequence—i.e., spring washer, spring, spring washer, cover, bearing, etc. Note: Make sure “Filter” position on cover is over “wedge” opening in key.
 - c. Firmly pressing down and holding cover to depress heavy-duty spring, align handle (with pointer to Filter) and secure handle with pin.
 - d. Assemble key assembly to valve as in (5) a, b, and c above.

Image 2.2: Detailed general instructions for plumbing connections and initial setup of the multiport valve.



GENERAL INSTRUCTIONS

1. OPTIONAL: A pipe tap boss is provided for use of a pressure gauge.
2. PLUMBING: Piping stops are provided. IMPORTANT: Do not overtighten pipe fittings. Proper fitting make-up is hand tight plus one to 1-1/2 turns maximum. Always use Teflon pipe tape or Permatex No. 2 for connections to provide a good, “living” seal. Add extra sealant if male pipe fitting is undersized.
3. WINTERIZING: Drain and winterize filter and pump per manufacturer’s instructions. To drain water from Vari-Flo—depress and rotate valve handle and place handle pointer on raised portion of index hubs at any “Winter” position.
4. SERVICING VALVE: If it becomes necessary to service or gain access to the key or valve seat gasket:
 - a. Set handle in Winter position.
 - b. Remove cover screws.
 - c. Lift cover and key assembly out.
5. RE-ASSEMBLY VALVE:
 - a. Wipe debris from cover O-ring.
 - b. Set handle in Winter position. Align notch on cover with tab on body. Press down to seat assembly.
 - c. Secure assembly to body with cover screws. Start screw thread in existing thread in body. Tighten cover screws evenly and alternately. Do not overtighten.

Image 2.3: Special instructions detailing the disassembly and reassembly process for the valve's key and handle assembly.

3. OPERATING INSTRUCTIONS

The valve features an easy-to-use lever-action handle that allows seamless switching between 7 settings. Always ensure the pump is turned off before changing valve positions to prevent damage.

POWERFUL

CONTROL VALVE FUNCTIONS

Features an easy-to-use lever-action handle that lets you "dial" up to 7 valve/filter function.

FILTER: For normal filtering and regular vacuuming

BACKWASH:
For cleaning filter sand bed of accumulated debris

RINSE: Use after completing backwash cycle to ensure all dirty water is rinsed out of the filter to waste

RECIRCULATE:
Water is recirculated through the valve by-passing the filter

WASTE: By-passes the filter for draining or lowering pool water level and for vacuuming heavy debris directly to waste line.

CLOSED: Shuts off the flow from the pump to the filter

WINTER: For winterizing (SP0714T only)

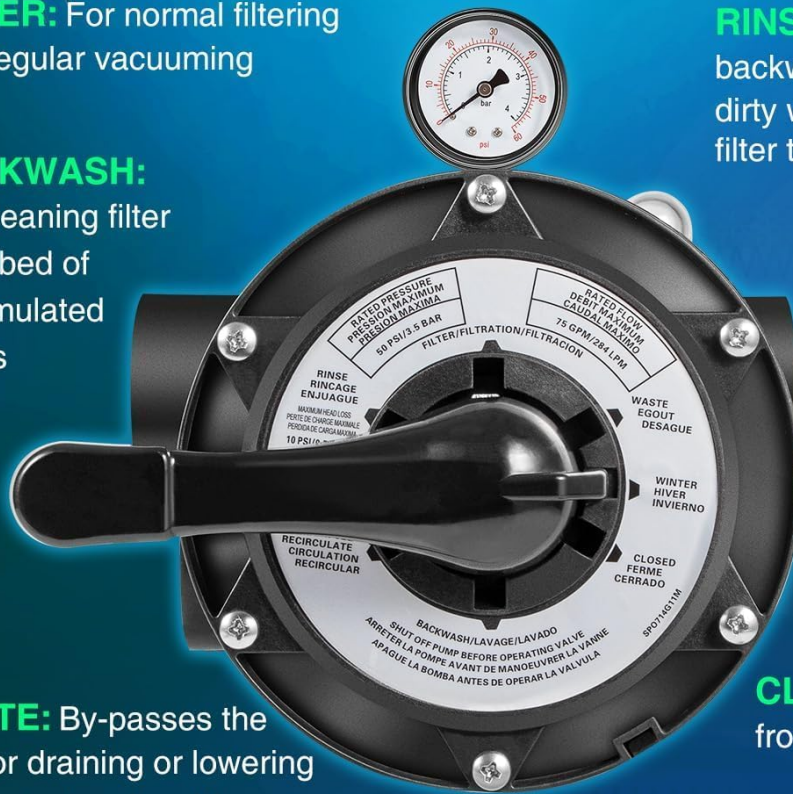


Image 3.1: Diagram illustrating the seven control functions of the multiport valve and their respective positions.

3.1 Valve Settings

- **FILTER:** For normal filtering and regular vacuuming of the pool.
- **BACKWASH:** Used for cleaning the filter sand bed of accumulated debris.
- **RINSE:** Use after completing a backwash cycle to ensure all dirty water is flushed out of the filter to waste.
- **WASTE:** Bypasses the filter for draining the pool or lowering the water level, and for vacuuming heavy debris directly to the waste line.
- **RECIRCULATE:** Water is recirculated through the valve, bypassing the filter. Useful for chemical distribution without filtering.
- **CLOSED:** Shuts off the flow from the pump to the filter. Use this setting when performing maintenance on the pump or filter.
- **WINTER:** For winterizing the pool system (SP0714T only).

4. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your multiport valve and pool filtration system.

4.1 Routine Maintenance

- **Backwashing and Rinsing:** Perform backwash and rinse cycles regularly as indicated by your filter's pressure gauge or flow rate. The built-in sight glass allows for convenient viewing to determine when the backwash cycle is complete (water runs clear).
- **Gasket and Seal Inspection:** Periodically inspect the valve's gaskets and seals for wear or damage. A molded gasket ensures a reliable seal, but replacement may be necessary over time.
- **Cleaning:** Keep the valve exterior clean from debris and chemical residue.

4.2 Servicing the Valve

If it becomes necessary to service or gain access to the key or valve seat gasket:

1. Set the handle in the Winter position.
2. Remove the cover screws.
3. Lift the cover and key assembly out.

For re-assembly, wipe debris from the cover O-ring. Set the handle in the Winter position, align the notch on the cover with the tab on the body, and press down to the seat assembly. Secure the assembly to the body with cover screws, starting the thread in existing threads in the body. Tighten cover screws evenly and alternately. Do not overtighten.

4.3 Winterization

To winterize the valve, drain the pump and filter according to the manufacturer's instructions. Depress and rotate the valve handle to the "Winter" position. This helps prevent damage from freezing water.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your multiport valve.

- **Valve Leakage:** Ensure all plumbing connections are properly tightened and sealed with Teflon tape or sealant. Inspect the valve's internal gaskets and O-rings for damage or improper seating. If leakage persists, refer to the servicing instructions or contact support.
- **Difficulty Changing Positions:** Ensure the pump is turned off before attempting to change valve positions. If the handle is stiff, check for debris obstructing the internal mechanism. Lubrication of the handle shaft may be required.
- **Poor Filtration/Flow:** Verify that the valve is set to the "FILTER" position. Check the filter's pressure gauge; a high reading may indicate a dirty filter requiring backwash. Ensure the pump is operating correctly.

If you experience issues not covered here or if problems persist, please contact sixcow customer support for assistance.

6. SPECIFICATIONS

Detailed technical specifications for the sixcow SP0714T VariFlo XL Multiport Valve.

EASY INSTALLATION

- **Confirm correct valve** is being used for your filter type and model.
- **To install valve to filter**, secure bulkhead nuts on valve to fittings on filter.
TIGHTEN THE NUTS BY HAND ONLY. Connect pump, return, and waste lines by following the markings of the ports.
- **VALVE TOP IS UNDER SPRING LOAD.** To open top half and service valve, evenly and alternately loosen cover screws.
- **To re-assemble the top half**, place diverter on a smooth and firm surface. Assemble parts on shaft. Make sure the pointer on handle and the arrow on diverter point to same direction. Press down the cover by depressing heavy-duty spring and secure handle with dowel pin.
- **To re-assemble the top half to valve bottom**, ensure bottom gasket and diverter sealing surface are clean and free from nicks to insure positive seal in. Tighten cover screws evenly and alternately.
DO NOT OVERTIGHTEN THE SCREWS.
- **WINTERIZATION:** To winterize, drain the pump and filter per manufacturer's instructions. Press and turn valve handle to a position that is between any two settings.



Image 6.1: Diagram showing the product dimensions and key specifications of the multiport valve.

Feature	Specification
Product Dimensions	9 x 7 x 2 inches
Item Weight	5.59 pounds
Plumbing Ports	1.5" FIP threaded
Maximum Operating Pressure	50 PSI
Maximum Flow Rate	75 GPM
Number of Ports	7
Material	Rugged, colorfast ABS material with stainless steel spring and rubber valve seat

6.1 Compatible Models and Part Numbers

This valve is designed for broad compatibility with various sand filter systems. It is interchangeable with numerous part numbers and fits a wide array of models.

GREAT COMPATIBILITY

Interchangeable Part Number : SP0704, SP704, SP710 series, SP714, SP714A, SP714B, SP714T, SP0714T, SP0714TC, SP0714TE, SP0714TX, SP0714XL, SP0715G11, SP-711-13 (715), 26-150-1710, HAY-06-271, SP71113, SP071113, SW711T, TM-12-H8, 27515-154-000, Jacuzzi DVK7 valve.

Compatible with Hayward All Pro Series and VL Series Filters:
S140T, S140TC, S144T, S160TC, S164T, S166T, S180T, S180TC, S180T2, S190T, S210T, S210TC, S220T, S220TC, S220T2, S230T, S244T, S244TC, S244T2, S244TLV, S245T, S270T, S270T2, S310T, S310T2, S360T2, VL210 Series, VL210T1285S, VL210T1285STL, etc

Compatible with Hayward SandMaster Sand Filters:
SM1700T, SM1706T, SM1900T, SM1906T, SM1906TW, SM2106T, SM2106TW, SM2300T, SM2306T, SM2506T

Compatible with Hayward SwimPro Sand Filters:
SW196T, SW236T, SW256T, VL210T, VL240T, VL270T

Compatible with Hayward GM Series Sand Filters:
GM140, GM142, GM142-6, G-152, GM152HV, GM195, GM225, GM245, GM600

Compatible with Hayward Dream Line Filter:
S170TSCPE, S190TSCPE, S190TSCPFT, S190TSCPT

Compatible with Hayward E-Series Models: E-100, E-200, E-250

Compatible with Jacuzzi Laser Sand Filters :
160L, 190L, 225L, 250L, L140-7C, L160-7C, L192-7C, L225-7C.

Image 6.2: A comprehensive list of compatible Hayward filter series and interchangeable part numbers for the multiport valve.

- **Interchangeable Part Numbers:** SP0704, SP704, SP710 series, SP714, SP714A, SP714B, SP0714T, SP0714TC, SP0714TE, SP0714TX, SP0714XL, SP0715G11, SP-711-13 (715), 26-150-1710, HAY-06-271, SP714T, SP71113, SP711-13, SP071113, SW711T, TM-12-H8, 27515-154-000, and Jacuzzi DVK7 valve.
- **Compatible with Hayward Pro Series and VL Series Filters:** S140T, S140TC, S144T, S160TC, S164T, S166T, S180T, S180TC, S180T2, S190T, S210T, S210TC, S220T, S220TC, S220T2, S230T, S244T, S244TC, S244T2, S244TLV, S245T, S270T, S270T2, S310T, S310T2, S360T2, VL210 Series, VL210T1285S, VL210T1285STL, etc.
- **Compatible with Hayward SandMaster Sand Filters:** SM1700T, SM1706T, SM1900T, SM1906T, SM1906TW, SM2106T, SM2106TW, SM2300T, SM2306T, SM2506T.
- **Compatible with Hayward SwimPro Sand Filters:** SW196T, SW236T, SW256T, VL210T, VL240T, VL270T.
- **Compatible with Hayward GM Series Sand Filters:** GM140, GM142, GM142-6, G-152, GM152HV, GM195, GM225, GM245, GM600.

- **Compatible with Hayward Dream Line Filters:** S170TSCPE, S190TSCPE, S190TSCPFT, S190TSCPT.
- **Compatible with Hayward E-Series Models:** E-100, E-200, E-250.
- **Compatible with Jacuzzi Laser Sand Filters:** 160L, 190L, 225L, 250L, L140-7C, L160-7C, L192-7C, L225-7C.

7. WARRANTY AND SUPPORT

sixcow is committed to customer satisfaction and product quality.

- **Satisfaction Guarantee:** All sixcow products include a 30-Day money-back guarantee.
- **Warranty:** A 12-Month warranty is provided for quality-related issues.
- **Customer Support:** For any questions, concerns, or warranty claims, please contact sixcow customer service. Refer to your purchase documentation for specific contact information.

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