



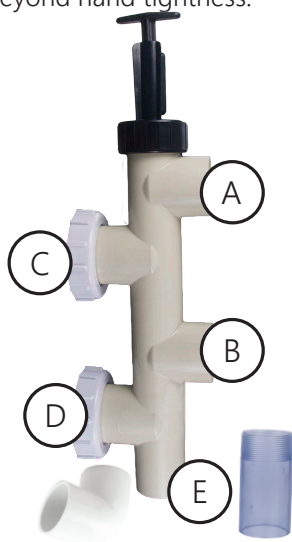
# SAND/DE SLIDE VALVE MANUAL

CMP 25831-11X-750, 25831-11X-790 (Replacement for Pentair 263064\*)

The CMP 25831-11X-750 Slide Valve (Pent 263064) 2" DE/SAND is designed specifically for use with Pentair DE/SAND Filters, Triton II, Triton C, Triton HD, FNS, FNS Plus, Nautilus, Nautilus Plus. It is fitted with locking nuts to align and join to the couplings on the filter unit with 7.5" centerline. Since the handle position and plumbing connections for the two types of filters are different, be certain of the filter type the valve is installed on and understand the valve positions for your filter type. Understand and follow instructions in the applicable diagrams on this instruction sheet for proper plumbing connections and correct handle positions for your filter type.

## INSTALLATION

- Align port C and port D of the valve with tank so that the handle is toward the top of the tank, push valve into ports and turn the valve nuts snugly on tank fittings. It is not necessary to cinch valve nuts to tank fitting beyond hand tightness.
- This valve may be plumbed to either Sand Type or DE filters; It must be plumbed differently depending upon filter type since the return line and waste line are configured differently for these two types of filters. Connect the pump to Port B. **To use on DE filter:** connect the pool return line to port A, and the waste line to Port E. **To use on Sand filter:** connect the pool return line to port E, the waste line to Port A
- A sight glass nipple is included in this package and may be plumbed into the backwash line if so desired.
- Plumbing connections to this valve should be made using only cements and primers formulated for the type of plumbing used with PVC connections. Follow all instructions on the cement and primer container.
- The 90 degree elbow is supplied loose to allow for proper positioning based on system piping and location.



**CAUTION:** Excessive glue during plumbing may cause piston assembly to become glued to the valve body. It is recommended to remove the entire piston assembly before plumbing and gluing. Eliminate excess glue "drip down" inside of valve body. Allow glue to cure completely after gluing before returning piston assembly to the down or filter position.

The maximum operating pressure of this valve is 50 psi. The filter unit also has a maximum operating pressure listed on the filter name plate. **DO NOT OPERATE THIS UNIT ABOVE THE MAXIMUM OPERATING PRESSURE OF THE VALVE OR THE FILTER.**

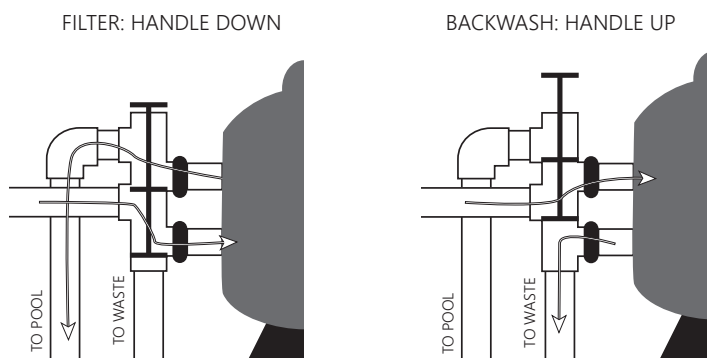
Never connect the filter and valve unit to a pump which can generate a pressure that exceeds the operating pressure of the filter or valve. Never store pool chemicals within 10 feet of your pool filter or valve. Pool chemicals should always be stored in a cool, dry, well ventilated area.

## D.E. FILTER OPERATION

**FILTER:** For normal filtering, handle should be in the DOWN/LOCK position. Also use in this position for vacuuming.

**BACKWASH:** To backwash filter, turn off pump. Turn valve handle counterclockwise to OPEN position. Pull handle straight UP as far as it will go and lock it. Restart pump. Water flow is reversed through filter, and water and DE powder are directed out the valve waste line (Port E).

After backwashing, turn off pump. Push valve handle DOWN and turn to LOCK position. The Valve returns to filtering position.

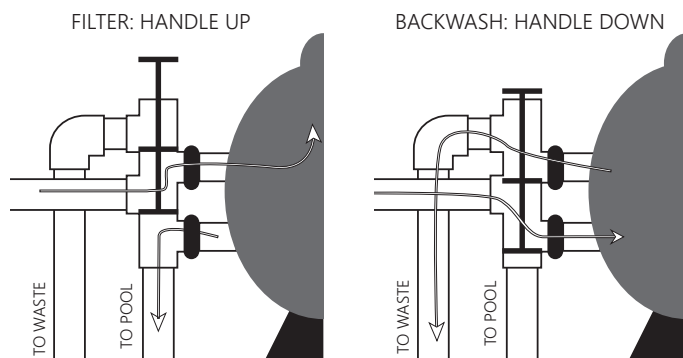


**WARNING**  
ONLY MOVE THE HANDLE WITH THE PUMP OFF

## SAND FILTER OPERATION

**FILTER:** For normal filtering, handle should be in the UP/LOCK position. Also use in this position for vacuuming.

**BACKWASH:** To backwash filter, turn off pump. Turn valve handle counterclockwise to OPEN position. Push handle straight DOWN as far as it will go and lock it. Restart pump. Water flow is reversed thru filter and water and dirt are directed out the valve waste line (Port A).



**WARNING**  
ONLY MOVE THE HANDLE WITH THE PUMP OFF

## INSPECTION AND SERVICING

### A. REMOVAL OF PISTON ASSEMBLY

1. Shut off pump and open air bleeder on filter to relieve all internal pressure.
2. Close valves on suction and return lines to isolate filtration equipment.
3. Empty filter of water by moving valve handle to backwash position and removing filter drain plug.
4. Unscrew top locknut of valve.
5. Slowly pull up and rotate handle until valve piston assembly is removed from valve body. A stuck piston can usually be removed easily by pouring a small amount of Murphy's Oil Soap into the valve bore.

Note: DO NOT BEND SHAFT FROM SIDE TO SIDE AS THIS CAN DAMAGE THE VALVE. A VALVE PISTON ASSEMBLY THAT WILL NOT PULL OUT EASILY INDICATES THAT THE SEALS OR VALVE BODY ARE DAMAGED. DO NOT ATTEMPT TO PULL THE PISTON WITH EXCESSIVE FORCE AS IT COULD SUDDENLY COME FREE AND CAUSE PERSONAL INJURY.

### B. PISTON ASSEMBLY INSPECTION & SERVICE

1. Remove piston assembly as directed in section above.
2. Carefully view each of the four O-rings, looking for any dirt particles including filter sand and/or DE filter media. If any dirt is present, the piston assembly and O-ring seals should be cleaned in a pan of the appropriate cleaning solution as listed below.
3. **NOTE: DIRT PARTICLES IN THE SEAL AREAS CAN DAMAGE O-RINGS AND CAUSE EXCESSIVE WEAR TO VALVE BORE. A WORN VALVE BORE CAN NOT BE REPAIRED ONCE IT IS DAMAGED.**
4. Carefully inspect all O-rings to ensure that O-rings are clean and not damaged. Replace O-ring if any signs of damage are visible. Apply additional lubricant to these O-rings once installed and work it into the groove area until the entire groove is filled with silicone grease. This ensures that additional lubricant is supplied to the O-rings and valve bore each time the piston assembly is actuated
5. Use only a product listed below as a cleaning solution for the piston assembly and a-ring seals. Use of other products could damage these important components causing improper operation, equipment damage and or personal injury. USE NO SUBSTITUTES!

*Cascade® or Calgonite dishwasher detergent in solution with warm water (10% detergent by volume).*

*Dove® dishwashing detergent in solution with warm water (up to 20% detergent by volume).*

*Trisodium Phosphate (saturated) solution such as Spic and Span®.*

### C. VALVE CARE

Proper care and maintenance will add many years of service and enjoyment to the pool. Follow the suggestions described in this section to maximize the life of this product.

1. Inspect periodically - Some dirt particles accumulate on the rubber seals and can scratch the valve piston bore when actuated. These scratches can accumulate on the bore until the bore can no longer be sealed by the O-rings. A scratched valve bore cannot be repaired, but must be replaced once excessive wear has occurred. TO EXTEND VALVE LIFE, PERIODICALLY INSPECT SHAFT SEALS AND VALVE BORE FOR DIRT AND CLEAN AS DESCRIBED PREVIOUSLY.

2. LUBRICATE PERIODICALLY - Valve seals are lubricated with thick silicone grease at the factory to ensure that the O-rings glide easily over stationary plastic surfaces. This lubricant also ensures that handle actuation is easy and that O-rings do not get damaged when passing over internal passage ways in the valve bore. To extend seal life, remove piston assembly and lubricate periodically.

NOTE: IF THE VALVE HANDLE BECOMES HARD TO TWIST OR ACTUATE UP AND DOWN DURING OPERATION, THIS IS AN INDICATION THAT THE SEALS NO LONGER HAVE ADEQUATE LUBRICATION AND SHOULD BE RE-LUBRICATED. CONTINUING TO ACTUATE A VALVE WITHOUT PROPER LUBRICATION WILL DAMAGE THE O-RING SEALS AND CAUSE VALVE TO LEAK.

**Only use silicone based lubricants. Other lubricants may damage valve components.**

### D. WINTERIZING

Open waste line and place handle in BACKWASH Position. If possible, remove, clean and lubricate the piston assembly and store in an airtight container or sealed plastic bag that protect seals from light and air; store away from heat.

It is recommended that if the piston assembly is going to be left in the valve body during the winter, then it should be lubricated first to ensure that the piston assembly will actuate easily after several months without movement.

## TROUBLESHOOTING GUIDE

Problem: Leaking to Waste

1. *Dirt is on main piston assembly seals, valve seals or damaged, or o-rings were improperly replaced:* Service piston as described under Inspection and Servicing
2. *Damaged Shaft such as scratches on the o-ring area:* replace piston assembly.
3. *Scratched valve bore:* replace valve
4. *Heat damage to valve bore:* replace valve

Problem: Leaking around shaft, exiting from cap area

1. *Dirt on small shaft seal or damaged seal:* Service piston as described under Inspection and Servicing
2. *Damaged cap or piston shaft:* replace cap or piston assembly

Problem: Leak between top cap and valve body

1. *Dirt or damage to large cap o-ring:* service piston as described under Inspection and Servicing
2. *Valve body damaged by heat:* replace valve

Problem: Handle is difficult to actuate

1. *Main piston seals and/or small shaft seal needs lubrication or they are damaged due to improper use of replacement o-rings:* service piston as described under Inspection and Servicing
2. *Valve body is heavily scratched:* lubricate seals frequently. If the valve remains difficult to actuate, replace the valve
3. *Valve body damaged by heat:* replace valve

## REPLACEMENT PARTS

**Slide Valve Piston Assembly (Pent 263055): 25831-110-100**

**90 Elbow 2" Slip × 2" Slip: 21008-000-000**