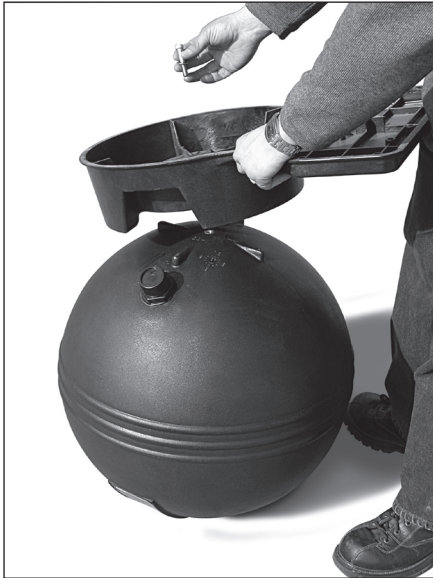
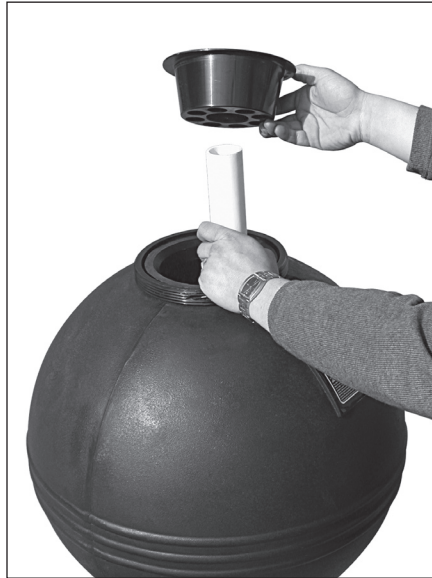


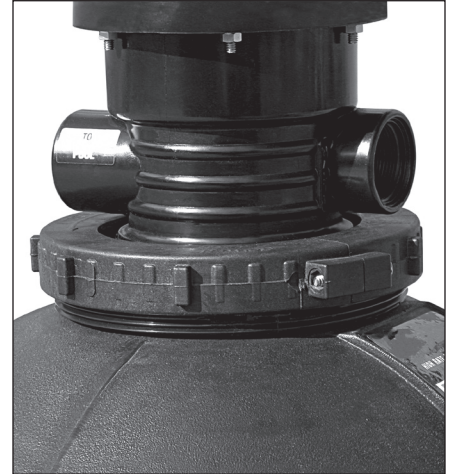
# ASSEMBLY INSTRUCTIONS FOR SAND FILTER SYSTEMS



1. Attach filter base to filter body by turning body upside down. Align drain on filter with clearance slot on base. Slip washer over bolt and thread bolt into filter body. **DO NOT OVER TIGHTEN.**



2. Turn filter over. Place next to pool between skimmer and return opening on pool. Place sand filter guide in filter over stand pipe. **Fill tank approximately  $\frac{3}{4}$  full of water before adding sand.** Add required #20 grade silica sand (see sand chart on back page). Remove sand fill guide and save.



3. Place valve over threads on sand filter. Make sure dual outlets face pool and that top of filter is clear of any debris.



4. Tighten nut using wrench. Use one hand to turn wrench and the other hand to hold wrench in place.



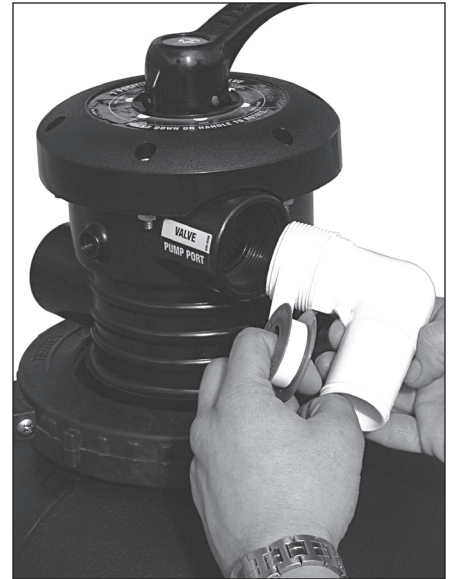
5. Split-nut is fully installed when threads on body are not exposed. Retighten bolt on split-nut after installation to ensure valve is not loose.



6. Install trap base to pump by removing gasket from inside trap. Remove clear trap lid, and place gasket in trap nut. Thread onto pump. **DO NOT OVER TIGHTEN.** Place pump with trap onto pump base. Remember to replace trap lid.



7. Install anchors into slots of pump, and then into the holes in the pump base. **Be sure to place pump on base where "Mounting Holes for Sand Filter" is shown.** Push pins into anchors to secure.



8. Apply Teflon tape to smooth 90° hose adapter threads (4 wraps) and thread into valve pump port.



9. Repeat Step 8 for the straight smooth hose adapter.



10. Install pump hose labeled "TO VALVE PUMP PORT" by sliding hose with metal clamp over smooth 90° adapter and tighten clamp.



11. Put 2" gasket into nut on hose labeled "TO VALVE PUMP PORT."  
**DO NOT OVER TIGHTEN.**





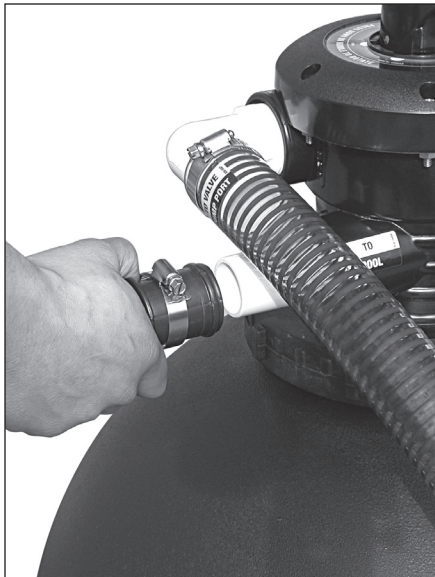
12. Put O-ring over thread on 1 1/2" smooth straight hose adapter and thread into front of pump basket.



13. Apply Teflon tape to threads of pressure gauge (4 wraps is ideal) and thread into valve. Install waste adapter by pushing O-ring over threads of clear adapter and threading into waste port.



14. Install 6 ft. corrugated hoses by loosening hose clamps and sliding over hose ends. Install hose onto pump basket hose fitting by pushing on and tightening clamp. Install other end of hose onto skimmer and tighten clamp.



15. Install hose onto smooth hose adapter in valve by loosening hose clamp and sliding over adapter end. Install other end onto return fitting of pool and tighten clamps.

**NOTE:** After starting system, if there is leaking at connections including the valve, shut off system and retighten slightly. Then restart the system. Repeat if necessary. If leaking does not stop, it may be necessary to remove fittings or valve to check for missing O-rings and/or gaskets. **When reapplying Teflon tape, do not reuse old tape. Remove old tape before adding new tape.**

#### REQUIRED AMOUNT OF #20 GRADE SILICA SAND

16" Filter	50 lbs.
19" Filter	100 lbs.
22" Filter	150 lbs.
26" Filter	200 lbs.

