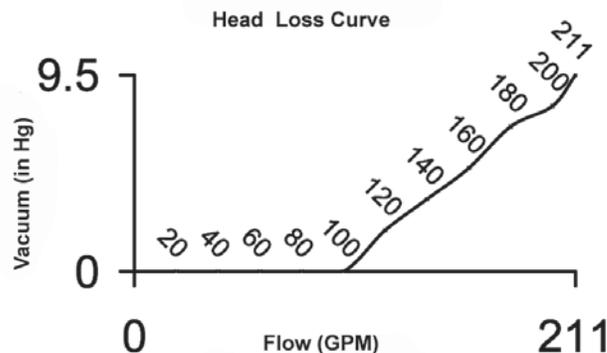


VGB 2008 211 GPM Suction Flow Installation Instructions

Instructions

1. For single or multiple use submerged suction outlet.
2. Do not try to locate suction outlets on seating areas or on the brackets for such seating areas.
3. When two or more suction fittings are used on a common suction line they shall be separated by a minimum of 3 ft. (91.44 cm), or, if any are located closer they shall be located on two different planes (i.e., one each on two separate vertical walls). Confirm with local and national codes and standards for proper installation.
4. In the event of one suction outlet being completely blocked, the remaining suction outlets serving that system shall have a flow rating capable of the full flow of the pump(s) for the specific suction system.
5. Maximum flow rating with head loss curve: 211 GPM.
6. Acceptable connecting pipe size(s) - maximum 2.5."
7. Mounting position: wall only
8. Suction outlet part number 30231 U applicable.
9. Part numbers:
 - 30231 U VGB 2008 211 GPM SUCTION COVER & SCREW/UV (replace within seven installed years)
 - 30341 VGB 2008 BUTTRESS SUCTION WALL FITTING X CUSTOM SLIP (replace within seven installed years)
 - 30234-V SUCTION L-GASKET USE 3.75" HOLE SIZE (replace within seven installed years)
 - 30236-V SUCTION FLAT GASKET (replace within seven installed years)
 - 30238-V SUCTION COMPENSATING RING (replace within seven installed years)
 - 63414 3/4" ID x 1" OD TUBING 8-FT LONG (replace within seven installed years)
 - 30239-V SUCTION NUT (replace within seven installed years)
 - 30167-V 2"SPG X CUSTOM SPG X 3/4" SMOOTH BARB SAFETY SUCTION ADAPTER (replace within seven installed years)
 - 30169-V 2 1/2"SPG X CUSTOM SPG X 3/4" SMOOTH BARB SAFETY SUCTION ADAPTER (replace within seven installed years)
10. Tools required: Philips screw driver, glue for plumbing connections, clamp & pliers for tubing connections.
11. Service and winterizing instructions.
 - a. Service - remove screw. Remove cover. Place suction cover on wall fitting with blank portion, no holes pointed down. The keyway on inside cover must match the notch on the wall fitting. Insert stainless steel screw in cover and tighten securely. Do not overtighten (as plastic will strip).
 - b. Winterizing - Drain suction line thoroughly and blowout all remaining water. See spa manufacturer instructions for winterizing.
12. **WARNING:** Do not exceed the maximum allowable flow rate stated on the suction fitting.
13. The suction fitting including fasteners should be observed for damage or tampering before each use of this facility.
Note: Missing, broken, or cracked suction fittings shall be replaced before using this facility. Loose suction fittings shall be reattached or replaced before using this facility. Read, then keep these instructions for future reference.

Caution: Be aware that changing pump types and sizes can increase flow rate. The maximum flow rate is 211 GPM.



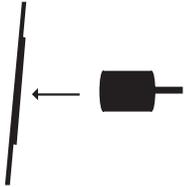
VGB 2008 211 GPM Suction Flow Installation Instructions

Step One

Do not locate suction outlets on seating areas or on the brackets for such areas.

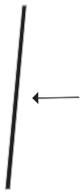
Step Two

Cut a 3.5" hole into the spa wall for a flat gasket.
Cut a 3.63" hole into the spa wall for a L gasket.



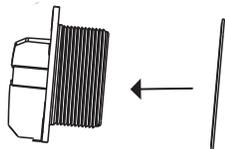
Step Three

Back face the backside of the wall as necessary so that it is parallel to the front side of the wall.



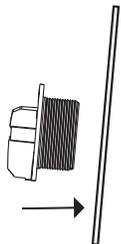
Step Four

Place gasket on wall fitting



Step Five

Place wall fitting through the hole



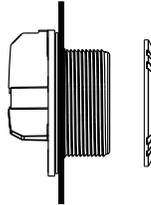
Step Six

Orient the tab down / Note wording "INSTALL" ↑ "ARROW UP."



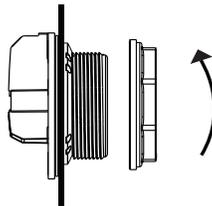
Step Seven

Place the compensating ring on the wall fitting with the flat side against the wall.



Step Eight

Thread nut onto the wall fitting

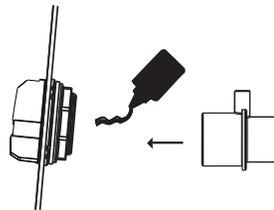


Step Nine

Tighten nut securely

Step Ten

Glue adaptor into wall fitting socket with 0.75" smooth barb or 0.5" socket facing up



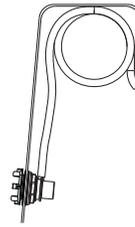
Step Eleven

Attach schedule 40 plumbing to the 2.0" or 2.50" adaptor



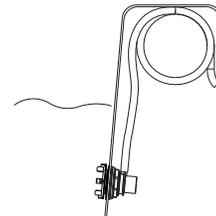
Step Twelve

A tubing resistant to kink or pinching shall be used (or provided) for use with the suction adaptor. Attach the provided tubing 0.75" to the smooth barb on the adaptor fitting with glue and a clamp to secure.



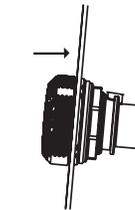
Step Thirteen

Run 0.75" vinyl tubing above the highest possible water level, creating a Hartford loop, and attach securely.



Step Fourteen

Place suction cover on wall fitting with blank portion (no holes) pointed down. The keyway on inside cover must match with tab on wall fitting.



Step Fifteen

Insert stainless steel screw in cover and tighten securely. (Do not over-tighten plastic will strip).

