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)
11. Service and winterizing instructions.
   a. Service - remove screw. Remove cover. Place suction cover on wall fitting with blank portion, no holes pointed down.
   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.
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.)