

Instructions for Completion and Submission of Pool Drain Safety Compliance Data Form

Please review the instructions below to ensure the Pool Drain Safety Compliance Data form is properly completed and submitted with all information required. All submissions will be need to be approved and verified by the Health Department prior to the issuance of an operation permit for the pool in accordance with Rule .2539(c).

POOLS WITH MULTIPLE PUMPS MUST SUBMIT A FORM FOR EACH PUMP SYSTEM.

1. **PUMP INFORMATION** – Enter the pump manufacturer, model #, and horsepower. Next, fill out EITHER letter a. or letter b, NOT BOTH.
 - a. If you are filling out letter a: enter the maximum flow from the manufacturer’s pump performance curve. Various pump curves may be found online at <https://www.buncombecounty.org/common/health/pump-identification-with-pump-curves.pdf>. or on the pump manufacturer’s website.
 - b. If your pool has 2 or less main drains and the maximum pump flow exceeds the maximum flow rating of any one of the main drain covers, you are required to fill out this section. If you fill out letter b., you will then go to the next section. Fill out EITHER section i or ii, but NOT BOTH. Provide photo evidence of a properly installed flow meter for either option.
 - i. For calculated Total Dynamic Head (TDH) you will use vacuum gauge and pressure gauge readings, to be taken after backwash and with the skimmer valve closed, to calculate TDH . Once you have calculated TDH you will refer to the published pump curve for that pump and find that number on the vertical axis which will allow you to read the flow rate on the horizontal axis. This will give you the maximum flow rate within approximately 10%. Provide photo evidence of the vacuum and pressure gauge readings as well as the installation of the flow meter. Detailed instructions on how to utilize this method can be found in the American National Standard for Suction Entrapment Avoidance in Swimming Pools, Wading Pools, Spas, Hot Tubs, and Catch Basins ANSI/APSP/ICC-7 2013. Photo evidence of the gauge readings after backwash and with the skimmer valve closed as well as proper installation of the flow meter is required to be submitted along with the form.
 - ii. For True Flow Design Flow, the reading of the flow meter will be taken after backwash and with the skimmer valve closed. Photo evidence of the flow meter reading after backwash and with the skimmer valve closed as well as proper installation of the flow meter is required to be submitted along with the form.
2. **DRAIN COVER/GRATE DATA** – Enter the number of drains on pump and check the appropriate box for the manufactured date of the drain covers. Enter the manufacturer, make, model, lifespan, location of installation, and maximum flow rating of cover. Enter the date the drain covers were installed and the expiration date of the drain cover(s). Information on various approved covers that were manufactured prior to May 24, 2021 may be found online at <https://www.buncombecounty.org/common/health/vgb-approved-drain-covers-and-equalizer-covers.pdf> or on the drain cover manufacturer’s website. Please note that drain covers manufactured on or after May 24, 2021 will likely have different flow ratings from previous versions of that same drain cover that will depend on sump dimensions and suction pipe sizes. Additional documentation of flow ratings must be provided if cover is manufactured on or after May 24, 2021. If your pool has one main drain, complete the “single main drain,” section and then complete the “secondary form of bather entrapment,” section, if applicable. If your pool has more than one drain, complete the “multi drain system,” section. If the distance between the main drain covers measures less than 3 ft, center to center, complete the “secondary form of bather entrapment,” section.

3. **DRAIN SUMP MEASUREMENTS** –The drain sump is the area under the drain cover. Measurements are needed to determine the size of the cover/grate and to assure the sump is deep and wide enough to meet the requirements in the cover/grate manufacturer’s specifications. If the sump is a manufactured sump, fill out the manufacturer and model #. In order to take required measurements, the drain cover will need to be removed. Measure the size of the sump: diameter if round; length and width if square/rectangle. Measure the sump depth. The sump depth is how much distance is between the bottom of the sump and the pool floor. Measure the suction pipe size. The suction pipe size is the inside diameter of the pipe that carries the water to the pump, directly under the drain cover. Next, measure the distance between the top, inside of that same pipe, and the bottom of the drain cover. When measuring the distance from the suction pipe to the bottom of the cover, take a straight edge and place it across the frame on the pool floor so that you get a clear visual reading of the distance on the tape measure where it intercepts the straight edge. The orientation of the pipe to sump is where the suction pipe connects to the sump. If it comes in on the side of the sump, check “side,” if it comes in on the bottom of the sump, check “bottom.”
4. **SECONDARY METHOD OF PREVENTING BATHER ENTRAPMENT** – a Safety Vacuum Release System (SVRS) is required if dual drains are closer together than 3 feet from center to center or if the pump has a single main drain with a blockable cover or blockable sump. Enter the manufacturer, make, and model number of the SVRS. If using another secondary method of preventing bather entrapment allowed in Rule .2539(b), please attach documentation.
5. **EQUALIZER COVERS** – If your pool is exempt from this section due to being constructed without equalizers, or if all of its equalizers have been disabled, check the appropriate box. If your pool has operable equalizers, notate the number and fill out the manufacturer, make, model, and lifespan of the equalizer cover. Check the location and fill out the maximum flow rating of the equalizer fitting. Information on various approved covers that were manufactured prior to May 24, 2021 may be found online at <https://www.buncombecounty.org/common/health/vgb-approved-drain-covers-and-equalizer-covers.pdf> or at the equalizer cover manufacturer’s website. Fill out the pipe size of the equalizer line by using the inside diameter of the pipe that the cover is attached to and record the date of installation and expiration date of the cover(s). In lieu of using approved equalizer covers, equalizer lines may be disabled. Instructions on how to properly disable skimmer equalizer lines may be found at <https://www.buncombecounty.org/common/health/disabling-skimmer-equalizer-lines.pdf>.
6. **VACUUM LINE** – Check the appropriate box regarding vacuum line ports.

FORM COMPLETION – A separate Pool Drain Safety Compliance Data form must be completed and submitted for each individual pump system at each individual pool located at a facility including spas, wading pools, and other regulated pools.

This form should be completed by the pool owner, pool operator, or someone representing the owner or operator. The Health Department understands that the required information and/or measurements may be beyond the scope of owners or operators. In those cases, it is recommended that you contact a Registered Design Professional (Professional Engineer or Licensed Architect) or a knowledgeable pool professional to assist you in completing the form.