

## Water Safety Month 2023

### Updates to VGBA (Virginia Graham Baker)

#### Checklist for Compliance Verification VGBA-2017

Pool Name	Type	Gallons	Sump Opening size	Pipe Size	Pipe Opening Depth	Maxium Flow Rate*	Number of Drains	secondary VGB system?

## Maximum Flow Rate & Total Dynamic Head\*

- ✓ Maximum flow rate is required in choosing the right drain cover.
- ✓ Drain cover must exceed maximum flow rate.
- ✓ Maximum flow rate is different from operation flow rate.

Information needed to determine Maximum Flow Rate:

- Total Dynamic Head (TDH)-amount of pressure differential created by pump as it is operated.
- Pump Model- specific performance curve chart- comes from the manufacturer with pumps.

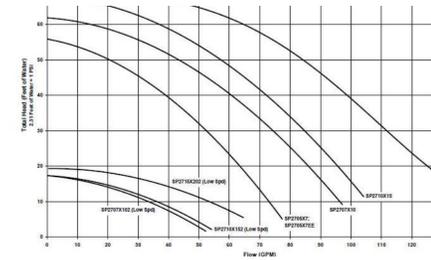


Figure out Maximum Flow Rate- must be done with water in the pool

- 1) Run the pump at the highest speed.
- 2) Make sure the pump is running with the lowest resistance. Backwash filters, open all drains 100%, clean skimmers, remove fittings in returns.
- 3) Watch gages to determine Total dynamic head (TDH)\*.
- 4) Plot TDH against the pump model-specific performance curve chart to get maximum flow rate.

Figure out Total Dynamic Head (TDH) Watch vacuum and pressure gages during Maximum Flow Rate testing.

- A) Multiple vacuum gage ready by 1.13
- B) Multiply pressure gage ready by 2.31
- C) "A" total + "B" total = Total Dynamic Head