

INFO SHEET

How the Hydrostatic Valve Works



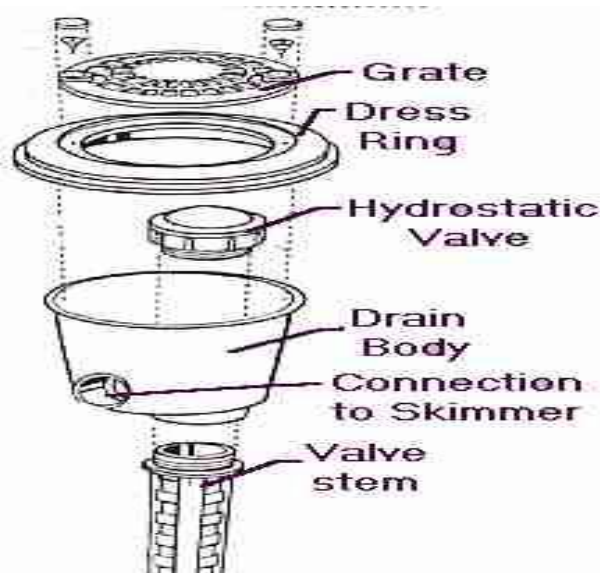
The Hydrostatic relief valve is located in the deepest part of your swimming pool. It may be under the main drain cover or in its own box situated on the bottom of the swimming pool.

The purpose of the Hydrostatic relief valve is to act as a one-way valve allowing water into the pool but not out of the pool. It opens when there is an excessive buildup of water pressure under your pool. It should be present in all fiberglass pools and most concrete pools.

Fig 1 Typical main drain, with cover (removed) and hydrostatic valve top visible inside

This allows the ground water to enter the pool and keep the equilibrium between the pool and underground water to avoid damage to the pool.

Fig 2 Most Main Drain assemblies are designed with the same major components.



- The Grate and Dress ring sits in the Fibreglass, Tile, Marblesheen, or Render on the floor while the remainder of the Main Drain assembly is cast into the Fibreglass or concrete of the floor.
- The Dress Ring does not have to touch the body of the main drain.

- The Main Drain must be installed at the deepest point of the swimming pool, so the water is able to drain completely from the swimming pool.
- The connection to the skimmer allows for a certain amount of water to flow naturally from the bottom of the swimming pool into the skimmer. (but may not be connected)
- The valve stem protrudes into the gravel pit below the structure of the pool so the water can drain into the pool easily.
- The hydrostatic valve is flitted into the base of the drain to stop water going out but allowing high pressure water in, so the pool does not lift out of the ground.
- Some valves may leak water out of the pool (need to be replaced and can be often done while pool remains full). Usually this replacement is needed about every 5 – 7 years. A faulty value can leak out 1 ins of water per day.
- Valves may also seize up and no longer work which can be an issue with a pool that's empty or nearly empty. Thus, you should always check the valve is working when your pool is being emptied and you can usually do so when the water level is such you can remove the cover (if any) and pull the valve top up, letting some "dirty" water into the pool. (or if dry under your pool, water flows out.)

Hydrostatic Valve: Showing different sizes, 1/12 (40 mm) and 2 ins (50 mm) size.



Valve Removal Tools: (usually from good pool shops)



For easy removal & fitting of a hydrostatic valve. Get correct size for the valve. Maybe able to hire from your pool shop. Made from steel.



For easy removal & fitting of a 2 ins hydrostatic valve. Made from plastic. Can use with a spanner or 1/2" drive.

You can see more on YouTube Videos here:



<https://localpoolrenovations.com.au/information/66-hydro-valve>
<https://youtu.be/HMvIJ1gW7uw>

and here; <https://youtu.be/NuVjVI-JJo>