

Varem Pressure Tanks



There is a common misconception that pressure tanks are 'booster tanks', as in they can boost your pressure in your system, or that they work as storage tanks. That is not the case.

The only thing that will pressurise your system is your pump, whether it is for your house, your garden or even large commercial setups. The pressure tank has a pressure switch acting as a buffer and switches your pump on and off as required. When the pressure gets to the pre-set maximum pressure level, the pump turns off and turns on when the pressure drops.

The pressure tanks from Varem are 'bladder tanks' or 'pre-charged pressure tanks'. This means that they have a vinyl bag inside the tank with pressurised air on the outside of this bladder. The air is generally pre-set to a pressure of 2 bars. One of the main advantages to this system is that your pressure tank can be a lot smaller than the older type of tank, while maintaining the same working capacity. This is because a non-pressurized tank needs to halve the amount of air in the tank each time to double the pressure as shown in the diagram. However, the problem is that the pump will have to turn on when the pressure in the tank drops, thus increasing the number of times you turn on the tank.

Whereas in a pressurised tank, you can use all 50 litres, without losing pressure, before the pump needs to turn back on. You are therefore reducing the number of times your borehole motor or booster pump has to turn on/off, which greatly increases the lifespan of your motor and pump. But needless to say, there is a big saving to be had by opting for the smaller size tank as well as reducing the wear and tear on your pump.

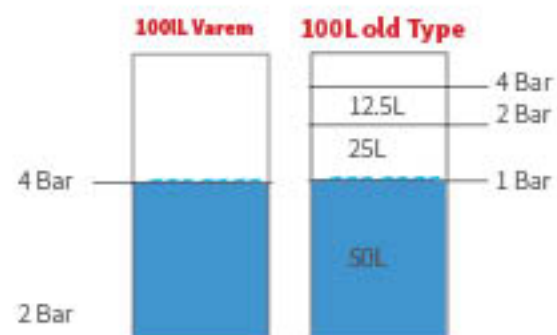
The other advantage is that the water is completely contained within the bladder. This prevents the tank from rusting away as there is no contact between the water and metal. In the old types of tanks, this rust will slowly start to flow into your water system and clog your taps and geysers.

The older versions compress the air inside the tank by pumping water into it, thus, becoming waterlogged every so often. It becomes waterlogged when there is no longer any air inside the tank or the air cushion becomes too small to be efficient. The reason this happens is that the air dissolves into the water as there is nothing separating the air cushion and



the water. In the Varem tanks, this does not occur, as there is no direct contact between the air and the water. In fact, the good quality bladders in the Varem tanks will last years before they need replacing. And if the bladder should rip, all that is needed is to replace the bladder.

Lastly the single inlet/outlet in the Varem Pressure tanks means that fewer fittings are needed when installing these tanks which make it easier and cheaper to install into an existing system. The tank can be placed anywhere in the system with just a single line going to it.



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