

Water is found under almost every inhabitable tract of land and is therefore one of the most precious assets we have on earth.

Elsub and Elsumo submersible pumps are designed for economical, environmentally harmless and hygienic pumping of drinking, mineral, thermal and industrial water.

Our pumps form a compact unit consisting of a pump end and a submersible electric motor which can lift water great depths out of a borehole. Their competitive advantage is the efficiency and they will deliver more water per power used than any other borehole pump of the same capacity.

Our Pumps operate maintenance free. The fact that they are down the borehole means there are no above-ground pump houses. Control boards do not have to be at the well head. Periodic checks on cable connections, starter contacts, pressure switches, pipes and non return valve leaks etc. are necessary.

Besides their traditional applications they are increasingly installed in sumps, collecting chambers, storage, intermediate reservoirs, lakes, dams or rivers.

When installing the pumps in wells and water reservoirs, they are suspended from the rising main directly into the water to be pumped. Besides vertical installations there is the additional possibility of installing the pump in an inclined position. This results in considerable saving in civil engineering and operating costs compared with conventional pump stations with centrifugal pumps in dry sump installations.

In the municipal, industrial and agricultural areas the pumps are used for:

- The supply of drinking, industrial and emergency water
- Water treatment plants

- Irrigation and sprinkling
- Circulation of water in air conditions and industrial cycles
- Fire fighting and sprinkler systems
- Lowering and maintaining of ground water levels in mining and civil engineering

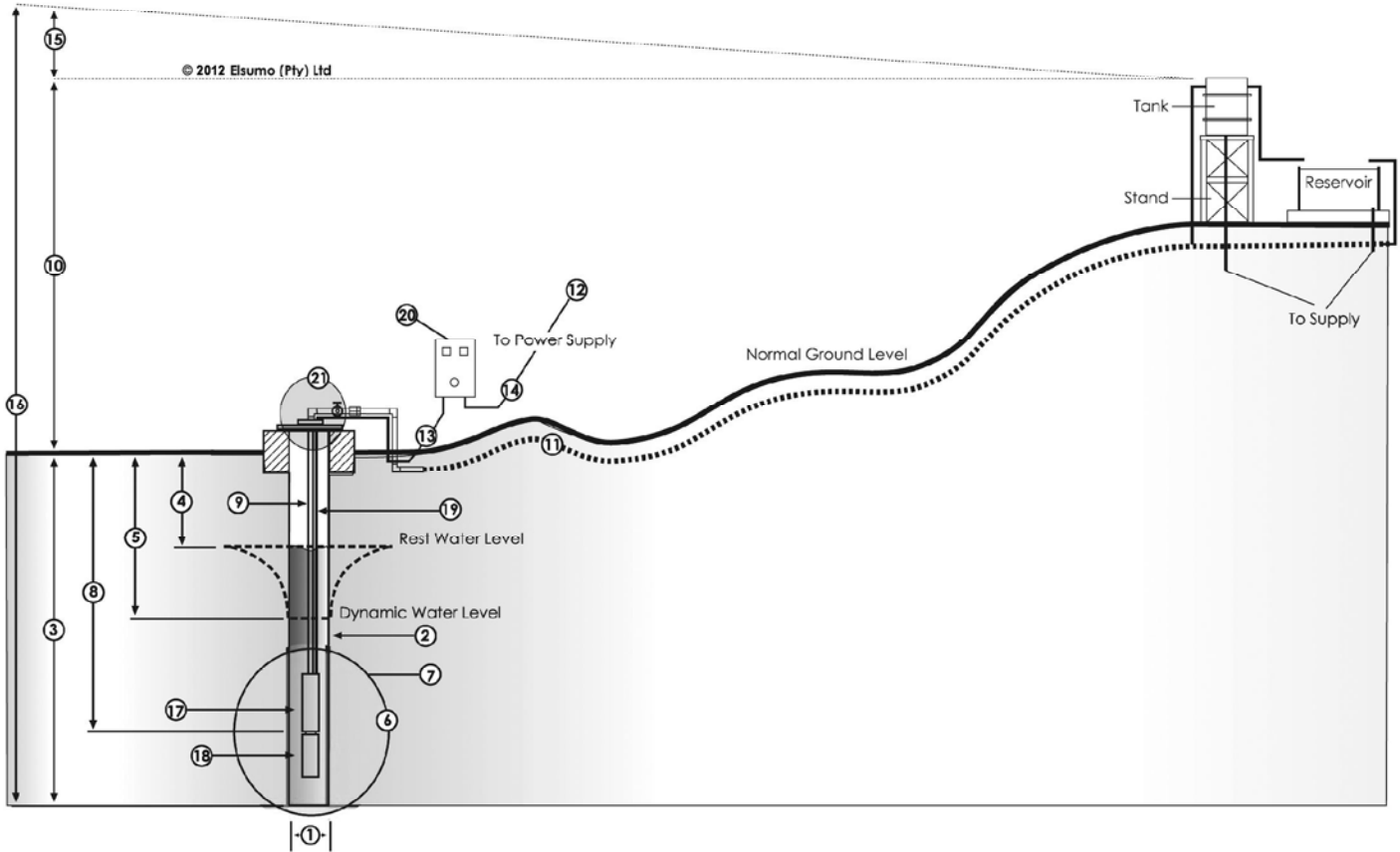
Equipping our elsub and Elsumo submersible pumps with pressure shrouds enables them to be used as booster pumps for water supply and circulation. There is no leakage water from stuffing boxes and the units are virtually maintenance free.

Using a elsub and Elsumo pump unit is a contribution to lower the building and running cost of a pump installation.

Borehole selection procedure

- The borehole was tested in accordance with SABS 0299-4:1988 Code of Practice
- Borehole, dynamic water level and rest water level; The pump should be placed just above the entry level of the water
- Take into consideration the distance, friction loss and static height the water has to be lifted from the top of the borehole
- When choosing the pump protection, make sure that the motor rating and the protection rating correspond

Elsumo will not take any responsibility for wrong performance due to insufficient and/or incorrect information



1. Borehole Diameter	13. Distance - BH to MCC
2. Casing Diameter	14. Distance - MCC to Power Supply
3. Borehole Depth	15. Friction Loss
4. Rest Water Table	16. Total Water Head
5. Dynamic Water Table	17. Submersible Pump
6. Test Capacity	18. Submersible Motor
7. Design Capacity	19. Submersible Cable
8. Installation Depth	20. Motor Control Centre
9. Rising Main	21. Borehole Accessories
10. Static Head	Adapter, Baseplate, GMS MF elbow, Brass gate valve, GMS barrel nipple, Brass N/R valve
11. Pipeline	
12. Power Supply	