

- Pressurisation of mains or private water for hotels & holiday complexes
- Agricultural water supply from wells or boreholes
- Domestic water supply from wells or boreholes
- Packaged sets for pressurisation of industrial water supplies
- Variable speed systems using inverter drives for energy saving and precise control
- Multiple pump systems with programmable control

### ***Fixed Speed - Single Pump:***

A conventional pressure set provides on/off control using a pressure switch, with a vessel to provide some storage. The larger the pressure vessel that is used, the less frequently the pump switches on and off.

We offer these systems with a variety of pumps ranging from the domestic self-priming units to the vertical multistage sets.



### ***Fixed Speed - Dual Pump:***

Where the demand is higher or variable, a dual pump system is used and conventionally this has been operated using a pressure set for providing on/off control using pressure switches, with a vessel to provide some storage.

The switching pressures are set so that if one pump fails to meet the demand the second pump will start and they can be used as duty/standby, where only one pumps operates at any time, alternating to even wear, or duty/assist, where two pumps are used if the demand is high.

Larger units with more than two pumps can be assembled to meet demand.

# Variable Speed Systems

Advances in technology have led to the development of variable speed drives which are used to vary the operating speed of a motor to maintain a constant parameter in the system.

We use these units in conjunction with a pressure transducer to maintain a constant pressure in the system.

## **Variable Speed - Single Pump:**

An advance on conventional on/off control uses a pressure transducer and inverter drive to vary the operating speed of the pump and provide a constant pressure system.

This provides a better control on the system with little or no variation in pressure.



## **Variable Speed - Multiple Pumps:**

Considerable savings can be achieved if variable speed dual and larger units are used when the demand on the system is variable, e.g. in a holiday or residential complex.

The pressure transducer will measure the system pressure and increase the operating speed of the pump to meet demand. When the first pump reaches maximum speed the second will start and build up speed as required to maintain the pressure.