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Complete Water Solutions

Main component parts of a typical spring fed system

At the source

- *Catchment chamber*

A catchment chamber is usually built around the source; this will help prevent contamination from surface water or vermin. FWT offer basic concrete or plastic chambers with a metal chamber lid to suit your load requirements or if required lockable chambers with greater load bearing capabilities to ensure the source is secure. Course filtration will be included in the system design to ensure that it is protected from vermin.

- *Fencing*

The area around a spring source should be fenced off to protect it from large animals and reduce the potential for surface contamination.

- *Supply pipe*

Sized to suit your flow requirements usually a minimum of 32mm MDPE pipe.

Storage/ reserve tank

- *Storage tank*

If the spring is not capable of providing a suitable peak water flow or pressure a 'break tank' is usually installed on the supply line. This is sized for your requirements and can be above or below ground. The tank needs to be of potable water quality/ WRAS approved and have an approved overflow configuration.

- *Water pumps*

A submersible or surface pump will be designed to suit your flow and pressure requirements. There are many options with reference to pump and controls, fixed or variable speed, with or without run dry protection or low level cut out protection. FWT will design a system to match the yield and your requirements.

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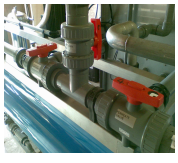
- *Signalling device*

Some pumps have built-in controls, however, other pumps will require signalling devices to operate them, these can either be a simple float switch in a tank or if using a pressurised system then a pressure vessel and pressure switch.

- *Supply pipe*

Sized to suit your flow requirements, usually a minimum of 32mm MDPE WRAS approved pipe.

Water treatment

- The quality of water and minerals supplied by springs sometimes may require treatment, typically for bacteria or sediment but sometime for other chemical parameters, this will be determined by your water analysis.