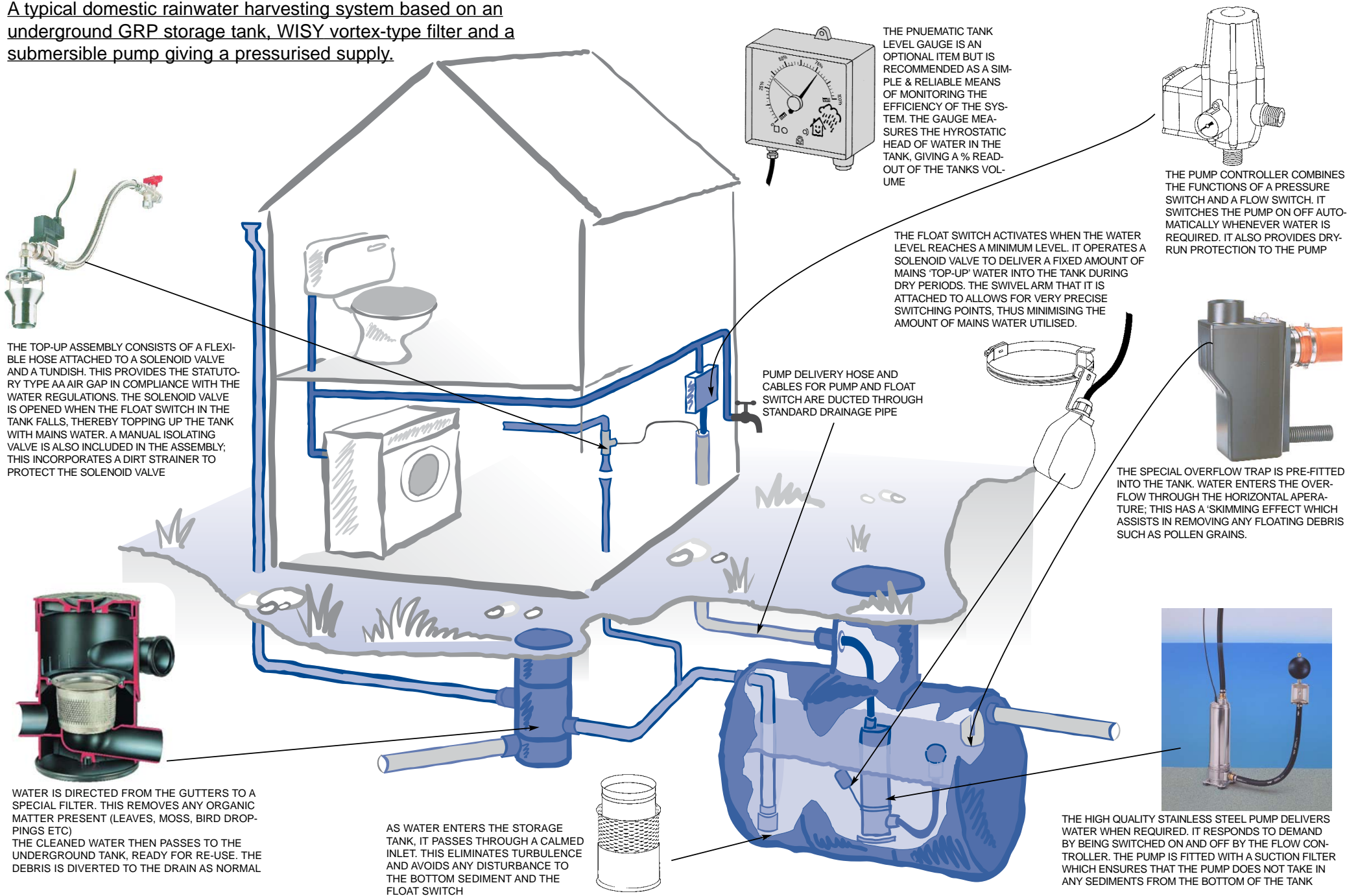


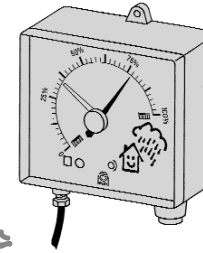
A typical domestic rainwater harvesting system based on an underground GRP storage tank, WISY vortex-type filter and a submersible pump giving a pressurised supply.



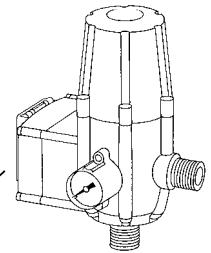
THE TOP-UP ASSEMBLY CONSISTS OF A FLEXIBLE HOSE ATTACHED TO A SOLENOID VALVE AND A TUNDISH. THIS PROVIDES THE STATUTORY TYPE AA AIR GAP IN COMPLIANCE WITH THE WATER REGULATIONS. THE SOLENOID VALVE IS OPENED WHEN THE FLOAT SWITCH IN THE TANK FALLS, THEREBY TOPPING UP THE TANK WITH MAINS WATER. A MANUAL ISOLATING VALVE IS ALSO INCLUDED IN THE ASSEMBLY; THIS INCORPORATES A DIRT STRAINER TO PROTECT THE SOLENOID VALVE

WATER IS DIRECTED FROM THE GUTTERS TO A SPECIAL FILTER. THIS REMOVES ANY ORGANIC MATTER PRESENT (LEAVES, MOSS, BIRD DROPPINGS ETC) THE CLEANED WATER THEN PASSES TO THE UNDERGROUND TANK, READY FOR RE-USE. THE DEBRIS IS DIVERTED TO THE DRAIN AS NORMAL

AS WATER ENTERS THE STORAGE TANK, IT PASSES THROUGH A CALMED INLET. THIS ELIMINATES TURBULENCE AND AVOIDS ANY DISTURBANCE TO THE BOTTOM SEDIMENT AND THE FLOAT SWITCH



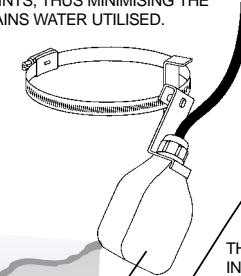
THE PNEUMATIC TANK LEVEL GAUGE IS AN OPTIONAL ITEM BUT IS RECOMMENDED AS A SIMPLE & RELIABLE MEANS OF MONITORING THE EFFICIENCY OF THE SYSTEM. THE GAUGE MEASURES THE HYDROSTATIC HEAD OF WATER IN THE TANK, GIVING A % READ-OUT OF THE TANKS VOLUME



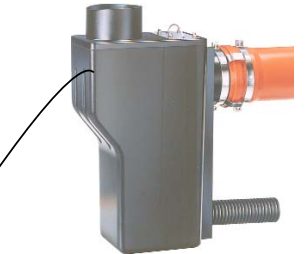
THE PUMP CONTROLLER COMBINES THE FUNCTIONS OF A PRESSURE SWITCH AND A FLOW SWITCH. IT SWITCHES THE PUMP ON OFF AUTOMATICALLY WHENEVER WATER IS REQUIRED. IT ALSO PROVIDES DRY-RUN PROTECTION TO THE PUMP

THE FLOAT SWITCH ACTIVATES WHEN THE WATER LEVEL REACHES A MINIMUM LEVEL. IT OPERATES A SOLENOID VALVE TO DELIVER A FIXED AMOUNT OF MAINS 'TOP-UP' WATER INTO THE TANK DURING DRY PERIODS. THE SWIVEL ARM THAT IT IS ATTACHED TO ALLOWS FOR VERY PRECISE SWITCHING POINTS, THUS MINIMISING THE AMOUNT OF MAINS WATER UTILISED.

PUMP DELIVERY HOSE AND CABLES FOR PUMP AND FLOAT SWITCH ARE DUCTED THROUGH STANDARD DRAINAGE PIPE



THE SPECIAL OVERFLOW TRAP IS PRE-FITTED INTO THE TANK. WATER ENTERS THE OVERFLOW THROUGH THE HORIZONTAL APERTURE; THIS HAS A 'SKIMMING' EFFECT WHICH ASSISTS IN REMOVING ANY FLOATING DEBRIS SUCH AS POLLEN GRAINS.



THE HIGH QUALITY STAINLESS STEEL PUMP DELIVERS WATER WHEN REQUIRED. IT RESPONDS TO DEMAND BY BEING SWITCHED ON AND OFF BY THE FLOW CONTROLLER. THE PUMP IS FITTED WITH A SUCTION FILTER WHICH ENSURES THAT THE PUMP DOES NOT TAKE IN ANY SEDIMENTS FROM THE BOTTOM OF THE TANK

