



OPERATION - BT WIRING DIAGRAM VAR SPEED DUTY STANDBY 1 OR 2 FILLING SOLENOIDS

CISTERN FILLING IS VIA NORMALLY CLOSED SOLENOID VALVES CONTROLLED BY "SOL 1" AND "SOL 2" (WHERE FITTED) LEVEL CONTROLLERS. THE LED ILLUMINATES WHEN THE SOLENOID IS POWERED. SOLENOID 1 OPENS ONCE THE WATER HAS DROPPED BELOW THE "SOL 1 ON" ELECTRODE AND CLOSSES ONCE THE "SOL 1 OFF" ELECTRODE IS SUBMERGED. WHERE FITTED - IF SOLENOID 1 CANNOT MEET THE DEMAND SOLENOID 2 OPENS ONCE THE WATER HAS DROPPED TO "SOL 2 ON" LEVEL.

ONLY ONE PUMP WILL RUN AT ANY ONE TIME. IN "AUTO" MODE THE PUMPS ALTERNATE EVERY 24 HOURS (SWAP AT NO SPECIFIED TIME). IF ROTARY SWITCH SET TO "HAND" LEFT OR RIGHT PUMP WILL RUN UPON DEMAND. IF AN INVERTER OR TRANSDUCER FAULT OCCURS, THE BMS RELAY ACTIVATES AND FORCES THE HEALTHY PUMP TO RUN UPON DEMAND.

THE PUMPS ARE CONTROLLED BY PRESSURE TRANSDUCERS AND LOW LEVEL "PUMP" CONTROLLER. THE "PUMP" CONTROLLER CUTS POWER TO THE PUMPS IF THE CISTERN IS ALMOST EMPTY. THE LED IS ILLUMINATED UNTIL THE "PUMP STOP" ELECTRODE IS EXPOSED - THE PUMP STOPS. THE PUMP RESTARTS ONCE THE "PUMP RESTART" ELECTRODE IS SUBMERGED. ONCE THE PRESSURE VESSEL IS RECHARGED AND NO FLOW IS DETECTED, THE PUMPS RUNS SLOW FOR A PERIOD THEN STOPS. GO TO arrowvalves.co.uk FOR FAULT FINDING CHART.

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TITLE:
BT WIRING DIAGRAM VAR SPEED DUTY STANDBY

DRN: RM

CHECKED BY:

DATE:

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MATERIAL: CARD 160 g/sqm

FINISH: LAMINATED

SCALE: 100%

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