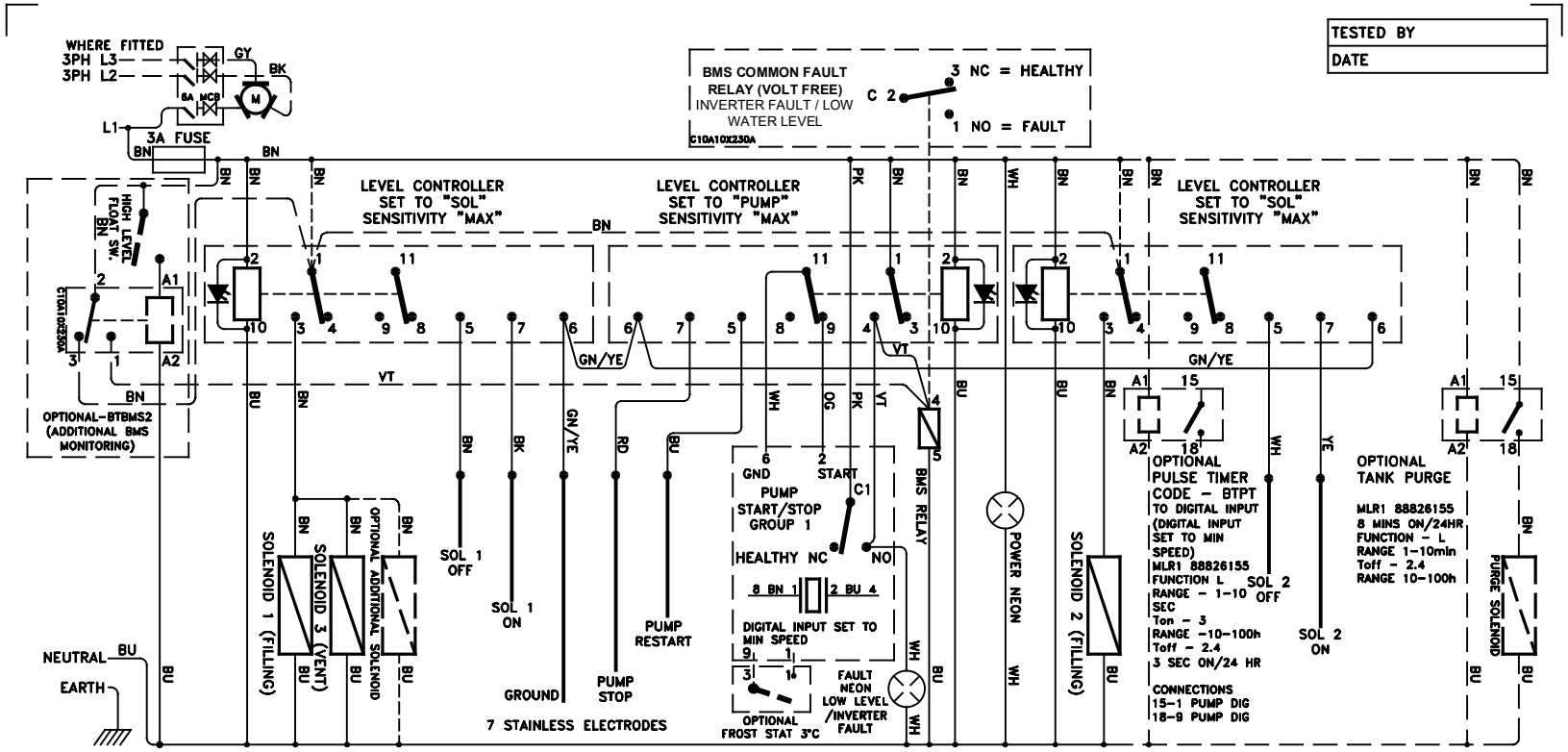

OPERATION

CISTERN FILLING IS VIA TWO NORMALLY CLOSED SOLENOID VALVES CONTROLLED BY "SOL 1" AND "SOL 2" 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 CLOSES ONCE THE "SOL 1 OFF" ELECTRODE IS SUBMERGED. IF SOLENOID 1 CANNOT MEET THE DEMAND SOLENOID 2 OPENS ONCE THE WATER HAS DROPPED TO "SOL 2 ON" LEVEL.

THE PUMP IS CONTROLLED BY A PRESSURE TRANSDUCER AND LOW LEVEL "PUMP" CONTROLLER. THE "PUMP" CONTROLLER CUTS POWER TO THE PUMP 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.
OPTIONAL - PULSE TIMER, OPERATES THE PUMP FOR 3 SEC EVERY 24 HOURS TO AVOID PUMP SEIZURE / HIGH ALARM FLOAT SWITCH / FROST STAT RUNS PUMP / PURGE OPTION.
GO TO arrowvalves.co.uk FOR FAULT FINDING CHART.

Arrow Valves

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AM108L 10/08/20

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TITLE: BT WIRING DIAGRAM VAR SPEED 2 SOL

DRN: RM | CHECKED BY: | DATE: | ©2020

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MATERIAL: CARD 160 g/sqm
FINISH: LAMINATED
SCALE: 100%
DRG No: AM108L
DATE: 10/08/20