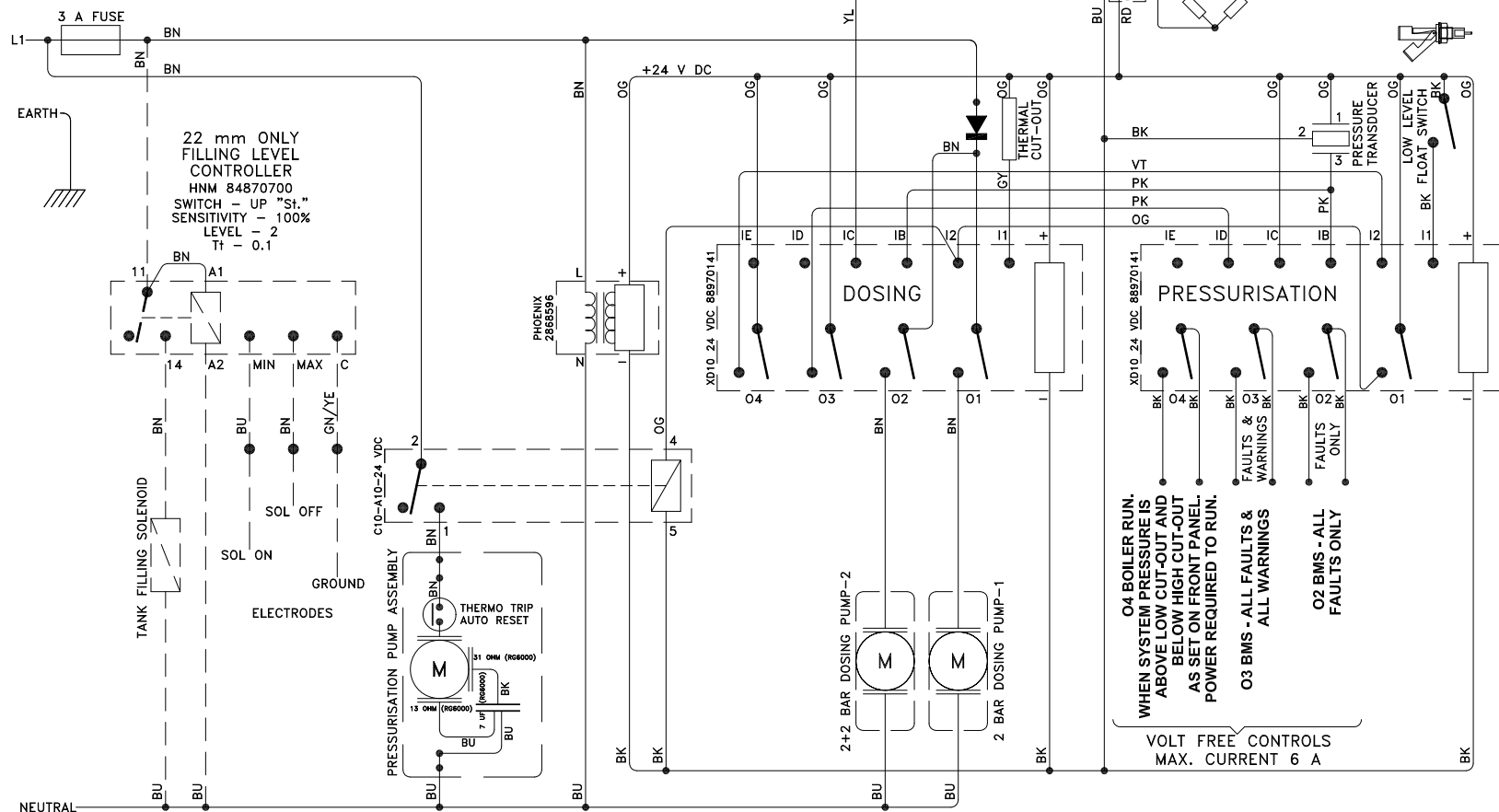


DATE
TESTED BY

SUPPLY VOLTAGE - 230 V
SUPPLY FUSE - 5 A ANTI SURGE / 6 A MCB
POWER DF15 - 625 W
POWER DF22 - 635 W



OPERATION

THE PUMP IS CONTROLLED BY A MICROPROCESSOR CONTROLLER AND RELAY. A PRESSURE TRANSDUCER MONITORS SYSTEM PRESSURE. WHEN THE SYSTEM PRESSURE DROPS BELOW THE SWITCH-ON PRESSURE, THE PUMP STARTS (AFTER 50 SEC.) AND STOPS ONCE THE SYSTEM PRESSURE REACHES THE SWITCH OFF-PRESSURE. A LOW LEVEL FLOAT SWITCH VIA THE CONTROLLER CUTS POWER TO THE PUMP WHEN THE CISTERN IS ALMOST EMPTY. THE CONTROLLER PERFORMS A DAILY ANTI SEIZE PUMP PULSE AND A WEEKLY PUMP PRESSURE TEST.

22 mm ONLY - CISTERN FILLING IS VIA NORMALLY CLOSED SOLENOID VALVE CONTROLLED BY A LEVEL CONTROLLER. THE RELAY ENERGISED LED ILLUMINATES WHEN THE SOLENOID IS POWERED. THE SOLENOID OPENS ONCE THE WATER HAS DROPPED BELOW THE "SOL ON" ELECTRODE AND CLOSES ONCE THE "SOL OFF" ELECTRODE IS SUBMERGED.



WIRING DIAGRAM - DF15 & DF22 DOSE & FILL

OPERATION

THE DOSING PUMP IS CONTROLLED BY A SECOND MICROPROCESSOR CONTROLLER. A WEIGHT SENSOR MONITORS THE WEIGHT/VOLUME OF CHEMICAL IN THE CONTAINER.

"DOSE FAULT STOPS!" MODE WILL STOP THE PRESSURISATION FILLING PUMP IF THE DOSE UNITS HAS A FAULT (E.G OUT OF CHEMICAL). ONLY USE FOR INITIAL FILL & COMMISSIONING STAGE WITH AUTO DOSE.

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O4 BOILER RUN.
WHEN SYSTEM PRESSURE IS ABOVE LOW CUT-OUT AND BELOW HIGH CUT-OUT AS SET ON FRONT PANEL. POWER REQUIRED TO RUN.

O3 BMS - ALL FAULTS & ALL WARNINGS

O2 BMS - ALL FAULTS ONLY

VOLT FREE CONTROLS
MAX. CURRENT 6 A

ARROW VALVES LTD
68 HIGH STREET
TRING HERTS
HP23 4AG
Tel: 01442 823 123 Fax: 01442 823 234
e-mail: info@arrowvalves.co.uk
web: www.arrowvalves.co.uk



TITLE: **DF DOSE AND FILL WIRING DIAGRAM**

DRN: SHG CHECKED BY: DATE: ©2010

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MATERIAL: CARD 160 g/sqm

FINISH: LAMINATED SCALE: 100%

DRG No: **AM166B** DATE: 14/11/11