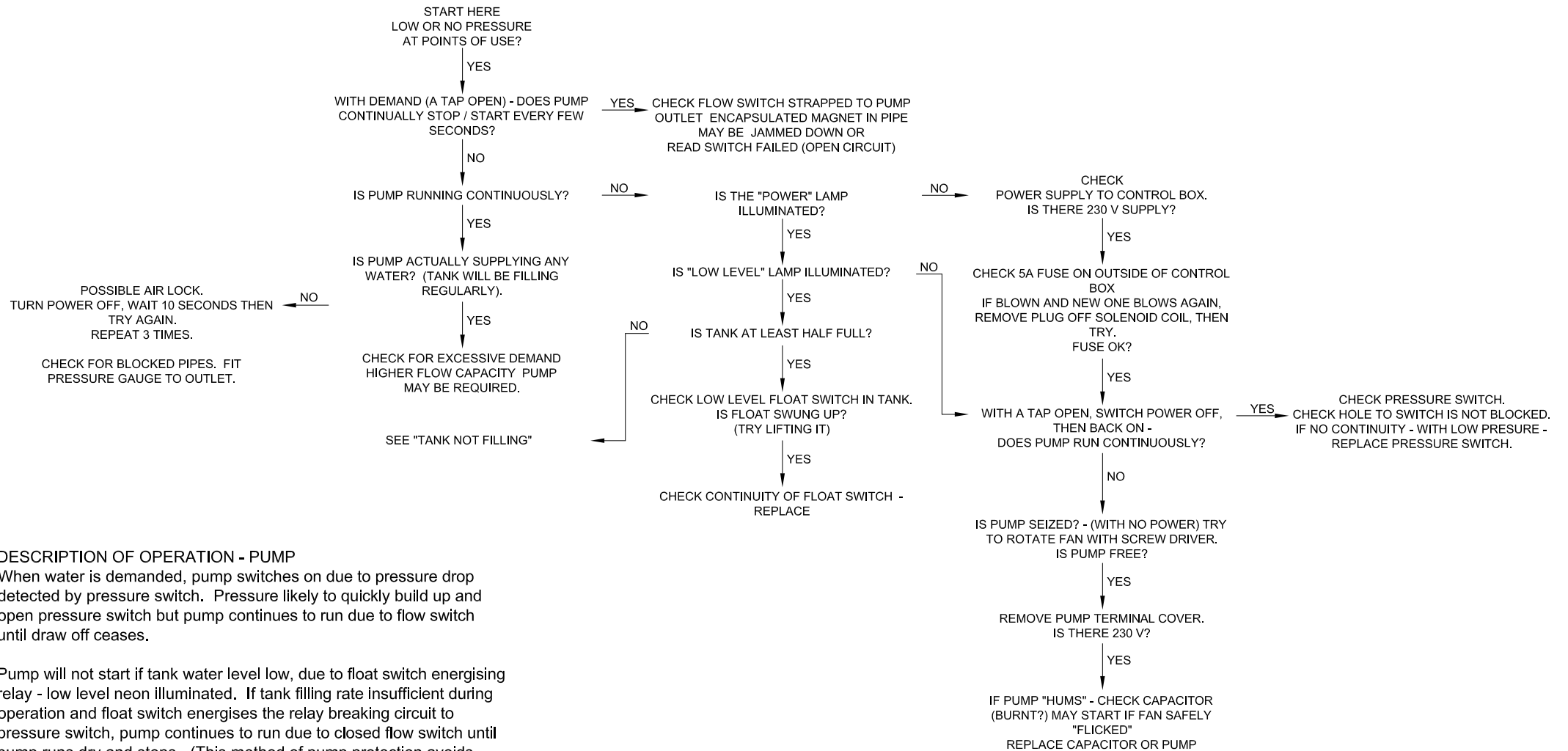


SYMPTOM – LOW PRESSURE – PAGE 1 OF 4

APPLICABLE TO "MIDI-BREAK" BTMIDI-2A

SEE WIRING DIAGRAM – AM143* (INSIDE CONTROL BOX LID AND ONLINE)

WARNING! – MAINS VOLTAGE – ISOLATE ELSEWHERE BEFORE ELECTRICAL MAINTENANCE



DESCRIPTION OF OPERATION - PUMP

When water is demanded, pump switches on due to pressure drop detected by pressure switch. Pressure likely to quickly build up and open pressure switch but pump continues to run due to flow switch until draw off ceases.

Pump will not start if tank water level low, due to float switch energising relay - low level neon illuminated. If tank filling rate insufficient during operation and float switch energises the relay breaking circuit to pressure switch, pump continues to run due to closed flow switch until pump runs dry and stops. (This method of pump protection avoids short cycling since pump will not restart until float switch closes).

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TRING HERTS
HP23 4AG
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web: www.arrowvalves.co.uk



TITLE:		BTMIDI-2A FAULT FINDING CHART	
DRN:	CHECKED BY:	DATE:	©2010
SHG			
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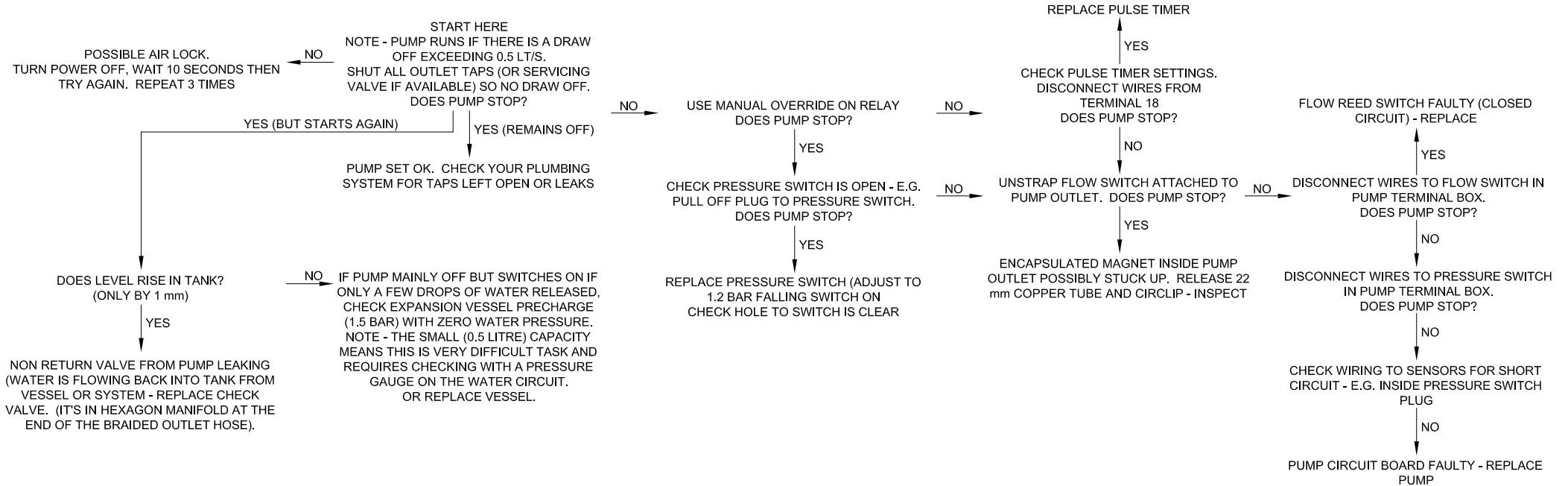
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DRG No: AM159A	DATE: 18/04/10

SYMPTOM – PUMP NOT STOPPING / STARTING TOO FREQUENTLY – PAGE 2 OF 4

APPLICABLE TO "MIDI-BREAK" BTMIDI-2A

SEE WIRING DIAGRAM – AM143* (INSIDE CONTROL BOX LID AND ONLINE)

WARNING! – MAINS VOLTAGE – ISOLATE ELSEWHERE BEFORE ELECTRICAL MAINTENANCE



DESCRIPTION OF OPERATION - PUMP NOT STOPPING

The pump will run if any of the three switches is closed - pressure switch, flow switch or pulse timer. A faulty switch can be eliminated by removing from circuit one at a time. If all switches open and pump runs, this suggests a faulty pump circuit board.

A small draw off (e.g. leak) on the outlet system will cause the pump to regularly start.

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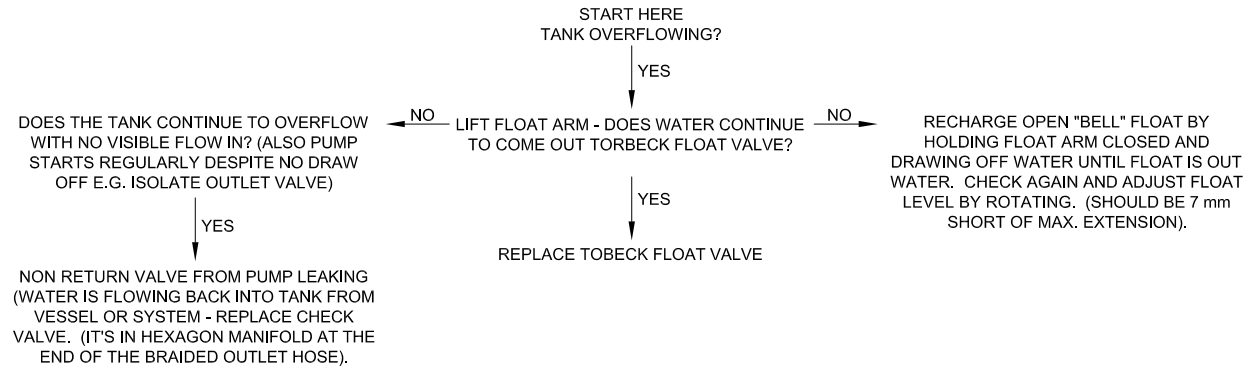
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SYMPTOM – TANK OVERFLOWING – PAGE 3 OF 4

APPLICABLE TO "MIDI-BREAK" BTMIDI-2A

SEE WIRING DIAGRAM – AM143* (INSIDE CONTROL BOX LID AND ONLINE)

WARNING! – MAINS VOLTAGE – ISOLATE ELSEWHERE BEFORE ELECTRICAL MAINTENANCE



DESCRIPTION OF OPERATION - TANK OVERFLOWING

If the tank overflows this is normally due to the filling device (Torbeck Flow Valve) not closing.

Water can return to the tank if the non return valve is faulty.

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TITLE: **BTMIDI-2A FAULT FINDING CHART**

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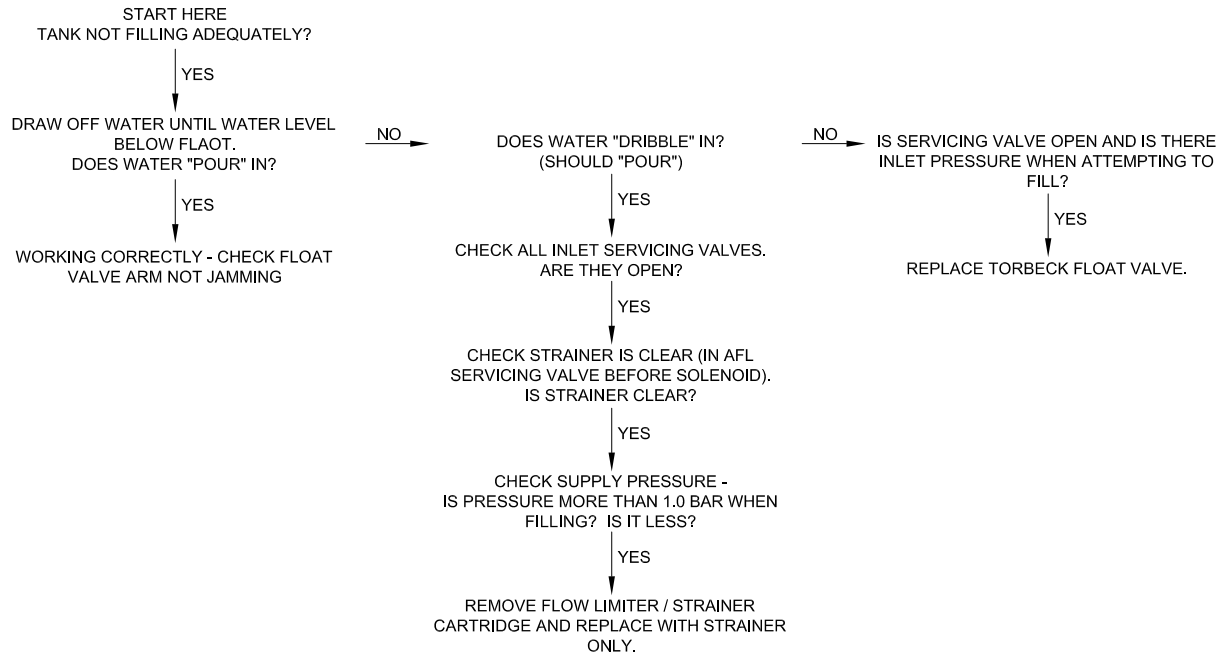
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MATERIAL:

FINISH: SCALE: 100%

DRG No: **AM159A** DATE: 18/04/10

SYMPTOM – TANK NOT FILLING ADEQUATELY – PAGE 4 OF 4
APPLICABLE TO "MIDI-BREAK" BTMIDI-2A
SEE WIRING DIAGRAM – AM143* (INSIDE CONTROL BOX LID AND ONLINE)
WARNING! – MAINS VOLTAGE – ISOLATE ELSEWHERE BEFORE ELECTRICAL MAINTENANCE



DESCRIPTION OF OPERATION - INADEQUATE FILLING

No filling at all could simply be due to no supply pressure or Torbeck float arm stuck.

Slow filling likely to be due to a partially blocked strainer in the AFL servicing valve or low supply pressure.

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