

Equipment Technical Bulletin

SHURflo Pump Error



PROBLEM

A defect in SHURflo pumps (transport pumps) built between January 1, 2004 and May 11, 2004 is causing some pumps to deliver more volume and draw higher current than intended.

PRODUCTS AFFECTED

ILS (uses 3.6 GPM transport pump #069947)
 ILS Max (uses 3.6 GPM transport pump #069947)
 ILS MaxT (uses 1.6 GPM transport pump #096801)

The date is printed on the lower right side of the pump label. Not all SHURflo pumps manufactured between January 1, 2004 and May 11, 2004 are defective.

SYMPTOMS

In ILS

- A defective SHURflo transport pump (#069947) may pump at a higher flow rate, typically near 4.0 GPM (normal flow rate is about 3.5 to 3.7 GPM during a normal system flush).
- This higher displacement of water by the SHURflo pump may move water out of the measuring chamber faster than it can be replaced. This could cause cavitation of the pump and calibration errors.
- Because defective SHURflo pumps will draw more current the main PCB may heat up more than normal. Tests have shown as much as a 10°F increase in temperature. Ambient temperature, work schedule and workload will affect this temperature increase on the PCB.

In ILS Max

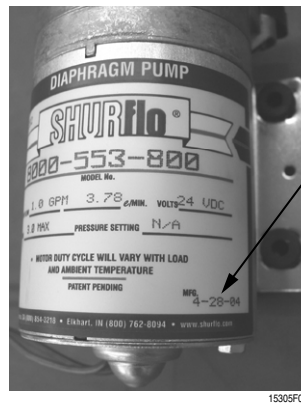
- A defective SHURflo transport pump (#069947) will have a higher flowrate, typically near 3.0 GPM (normal flow rate is about 2.3 to 2.5 GPM during a normal system flush).
- Because defective SHURflo pumps will draw more current, the system may go into over-current-limit mode at lower-than-normal outlet pressures, causing the pump to pulse on and off.

- The high current draw may also cause the Smart Pump PCB to heat up slightly more than normal, but in tests temperatures were within working tolerances and were not a problem. Ambient temperature, work schedule and workload will affect this temperature increase on the PCB.

In ILS MaxT

- A defective SHURflo transport pump (#096801) will have a higher flow rate, typically near 1.5 GPM (normal flow rate is about 1.1 to 1.3 GPM during a normal system flush).
- Because defective SHURflo pumps will draw more current, the system may go into over-current-limit mode at lower-than-normal outlet pressures and the pump will pulse on and off.
- This high current draw does not appear to cause heating of the PCB in this application.

SOLUTION



CHECK DATE OF MANUFACTURE

Beta will replace any SHURflo pump from this date range that is not performing satisfactorily. Please contact customer service (see contact information below) to arrange for replacements.



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