

NO: 221

JULY 24, 2013

TROUBLESHOOTING - STEAM-TO-JACKET VALVE NOT FIRING/ COLD JACKET

Overview

Although an infrequent occurrence, PRIMUS does periodically receive Customer Service Call Log (CSCL) help requests due to a steam-to-jacket valve not firing.

Typically, in the field the first indication of this problem is that the sterilizer will not come up to temperature.

Possible Causes and Corrective Actions

Sterilizer Controller Thinks the Jacket is Below Freezing

Check the jacket temperature in CAL mode

If the jacket RTD has failed, the jacket will read significantly below freezing

The steam-to-jacket valve will not fire if the controller thinks the jacket is below freezing

Replace the RTD and calibrate. The steam-to-jacket valve will then operate normally

Jacket Valve Stuck in the Closed Position

If debris becomes lodged in the valve, the valve could be prevented from opening. This could happen with high contamination levels in the steam

Coil on the Jacket Valve Shorted or Melted

Ultimately, all coils will eventually fail. The steam-to-jacket valve is a very "high use" valve and can undergo thousands of cycles per day

Coil failure is the most common cause of a steam-to-jacket valve not firing

Simply replace the coil, if possible. If the coil has melted, it can be virtually impossible to remove the coil from the valve. In this case, the entire valve must be replaced



PRIMUS

NO: 221

JULY 24, 2013

TROUBLESHOOTING - STEAM-TO-JACKET VALVE NOT FIRING/ COLD JACKET (CONTINUED)

Blown Fuse on the Jacket Relay, Power Control Relay, or Master Power Relay

Normally, if the coil fails on the steam-to-jacket valve, it will also blow the fuses on the Steam to Jacket Relay, Power Control Relay, and the Master Power Relay. These three relays all use fuse PRIMUS P/N 500035

No Steam to the Sterilizer

Check that plant steam or integral boiler steam is being properly provided to the sterilizer



PRIMUS

Page 2 of 2