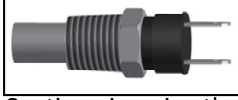
CLARKE®

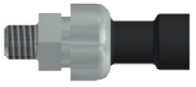
COOLING LOOP ALARMS – HEAT EXCHANGER COOLED ENGINES ONLY

- High Raw Water Temperature Alarm Verification
  - With the engine running from the main pump controller, jumper the two terminals of the high raw water temperature switch. The switch is located within the raw water plumbing in between the cooling loop and the inlet of the heat exchanger or charge air cooler (if equipped).



(High raw water temperature switch, set to alarm 105°F, standard)

  - Continue jumping the circuit for 30 seconds minimum until the alarm is indicated at the controller at interconnect terminal #310
  - Reset the main pump controller to re-instate normal operation of engine and controller
- Low Raw Water Flow Alarm Verification
  - Clarke engines utilize two pressure sensors in the raw water plumbing to alarm via a Low Flow Alarm Board a decreased flow rate condition. One sensor is located within the cooling loop (downstream of the automatic side pressure regulator), the other is located at the outlet piping of the heat exchanger



(Pressure sensor)

(Low Flow Alarm Board)

  - Locate the ¼ turn ball valve on the automatic (lower) side of the cooling loop, to the left of the Y-strainer. See yellow arrow below
  - With the engine running from the main pump controller, SLOWLY rotate the valve handle clockwise (CW) towards the CAUTION: CLOSED/NON-AUTOMATIC position to decrease raw water flow. Continue this until the alarm is indicated at the controller at interconnect terminal #311
  - Upon alarm activation, return ball valve handle to the NORMAL/OPEN position
  - Reset the main pump controller to re-instate normal operation of engine and controller