

MPC-1 SYSTEM STALLED

Stroke Sensor

These instructions are for system manufactured prior to December 1, 2004, systems manufactured later are supplied with a Rotoflow Sensor and should consult the bulletin MPC – 2 “System Stalled – Rotoflow”. ”System Stalled” means the high pressure Clark Pump is not cycling. Because the Clark Pump is powered by water pressure from the feed pump, this can be due to a lack of feed water pressure. Failure to cycle can also be due to a malfunction inside the Clark Pump. If the Clark Pump is not cycling and the system is equipped with the MPC controls it will try to start three times, displaying: RE-STARTING, and then alarm SYSTEM STALLED.

1. Determine whether the Clark pump is actually shifting or not. If the Clark pump is not shifting go to “2”, below. If the Clark pump is shifting, but the MPC alarms “System Stalled” confirm that the green light on the stroke sensor is going on and off with each shift. NOTE: the stroke sensor, p/n EC-MPC-SC15, is on the side of the Clark pump valve body. It is connected with a gray wire and snaps into a pocket in the side of the top section of the Clark pump. If the pump is cycling but the light is not blinking perform the MPC-4 Stroke Sensor Test. If the light is blinking and you still get System Stalled, the problem is in the MPC-3000 itself or the sensor wiring. Open the MPC-3000 box and look at the Printed circuit board. Next to the 3 telephone style jacks there is an 8 pin connector marked “1STROKE SENSORS2, PRES SWITCH”. Make sure the connections are tight and the plug is firmly in place. Try moving the stroke sensor wiring from “STROKE SENSOR 1” to “STROKE SENSOR 2”. Red wire goes to “P,” Green goes to “S,” Black goes to “G.”
2. Confirm that the feed pump or pumps are running. Confirm that you have power at the feed pump. If you have power but the pumps don’t run: see SF-1 PUMP WON’T RUN. If there is no power, find and repair the power supply problem.
3. If the pump is running confirm that water is flowing through the system. Check the flow at the brine overboard. If the pump is running but no water is flowing, the pump may be air locked. Open the pressure relief ½ turn to allow any air to be expelled out the brine discharge. Watch the feed hose for bubbles, if air bubbles continue to appear check the sea strainer and suction lines for leaks.
4. If water is flowing through the system but the Clark pump is not cycling there is a Clark Pump malfunction: perform the CP-5 Clark Pump Checkout Tests.

6/02/05