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Service Reference

Topic: Troubleshooting Cell Circulation Systems

Please read all the instructions listed below carefully to familiarize yourself with the project before attempting to perform any of the work.

This Trouble Shooting guide is for users of the UFS provided Standard Cell Circulation System (SCCS) or the original Cell Circulation System (CCS). Please use this listing by first focusing on the left hand column, then moving to the middle column to further define the possible problem. Consider each one of these causes carefully. At this point it is time to move to your SCCS, or CCS location and investigate each of the causes. Testing is sometimes necessary. It is good practice to try to isolate the most likely causes in order to reduce your testing. Finally, move to the right hand column to see the appropriate remedy.

Problem	Possible Cause(s)	Remedy
Leaking DI water solenoid valve	<ul style="list-style-type: none"> - Inlet pressure is greater than 4.1 bar (60 psi) - Solenoid actuator is loose - Fittings are not tight 	<ul style="list-style-type: none"> - Reduce pressure at inlet to 2.6 - 4.1 bar (40 – 60 psi) - Tighten actuator - Use Teflon tape and re-tighten
Solenoid vibrates	<ul style="list-style-type: none"> - Valve body is not opened up enough 	<ul style="list-style-type: none"> - Turn valve handle counter clockwise (CCW) to open as required
Solenoid valve not responding	<ul style="list-style-type: none"> - Conductivity controller not calling for solenoid valve to open - Valve handle is fully closed - No DI water - Loose electrical connection - Manual override lever is in 12 O'clock, which is the ON position - No AC voltage to panel 	<ul style="list-style-type: none"> - Confirm contacts are closing inside the conductivity controller - Insure no fuse(s) are open - Open valve CCW fully - Confirm DI water is available - Tighten as required - Move lever to 9 or 3 O'clock position - Confirm proper voltage in panel
Low flow or low pressure	<ul style="list-style-type: none"> - Motor is turning backwards - No suction to pump - - Discharge valve is closed - Pressure gage has failed - Motor/pump malfunction - 	<ul style="list-style-type: none"> - Re-wire as required - Open fully suction valve - Clean out strainer basket - Open fully - Order new gage with guard - See motor/pump manual

Problem	Possible Cause(s)	Remedies
Malfunctioning Conductivity Controller	<ul style="list-style-type: none"> - No AC power to panel - Fuse(s) are open - Sensor is dirty - Sensor is located in air pocket - Confirm set point is correct - Conductivity controller malfunction 	<ul style="list-style-type: none"> - Confirm AC power at panel - Change fuse(s) as required - Clean sensor as required - Change orientation of sensor to avoid any trapped air pockets - See conductivity controller manual - See conductivity controller manual
Low tank level	<ul style="list-style-type: none"> - Look for leaks in tank - Look for piping leaks - Look for leak in ME Cells - Is drain valve partially open - Blockage in return manifold 	<ul style="list-style-type: none"> - Tighten/repair as required - Fix/repair as required - Isolate Cell - Close drain valve completely. - Clear away as required

For more information see the original Getting Started manual that came with the equipment or call UFS at the phone number shown above.