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LSI Pump Troubleshooting Chart

Symptom	Possible Cause
Pump shaft does not rotate	8, 9, 10, 11
Pump fails to discharge	1, 2, 3, 4, 5, 6, 7, 13
Pump has a low flow rate	6, 5, 4
Excessive pressure at pump discharge	2, 13
Pump is noisy or vibrates	11, 12
Small leakage around pump shaft	14

Possible Causes	Corrective Action
1) Pump suction valves closed	Open manual valves between tank and pump
2) Pump discharge valve closed	Open manual valves between pump and point of application
3) Pump rotation is "backwards"	Change the motor or starter wiring for the correct rotation
4) Leaks in suction line	Inspect piping and repair if necessary
5) Leaks in discharge line	Inspect piping and repair if necessary
6) Worn pump	Replace pump – Call LSI for replacement
7) Pump Not primed	Prime pump by venting pump suction line and letting liquid flow to pump
8) Motor disconnect not ON	Turn motor disconnect ON
9) No RUN signal to motor starter	Check for voltage at the starter for verification
10) Motor thermal overloads "tripped"	Reset the overloads and make sure they are sized properly – Call LSI
11) Pump and motor not properly aligned	Correctly align the pump and motor shafts
12) Pressure relief valve operating	Adjust pressure relief for a higher pressure and look for closed valves/blockages
13) Discharged/suction lines blocked	Open manual valves and make sure all actuated valves completely open
14) Pump packing loose	Tighten pump packing nut(s) slightly more than "hand tight"

Pressure gauges commonly fail and display the wrong pressure. If you suspect that your gauge may not be reading correctly, replace it. Also, many liquids are not compatible with brass or bronze, so it is a good idea to always use stainless steel pressure gauges on liquids for longevity.