



CENTRIFUGAL PUMPS

PUMP TROUBLESHOOTING CHART	
SYMPTOMS	POSSIBLE CAUSES
Pump fails to discharge.	1, 2, 3, 4, 6, 7, 8, 9, 11, 19, 20
Pump discharges then stops.	1, 4, 8, 9, 10, 19, 20
Pump not up to capacity.	1, 2, 4, 7, 8, 9, 10, 11, 12, 16
Pump noisy or vibrates.	7, 10, 11, 13, 14, 15, 16, 17
Pump uses too much power.	5, 18, 19, 20

CAUSES	
1. Suction or discharge valves closed or partially closed.	11. Impeller damaged.
2. Direction of rotation wrong.	12. Speed too low.
3. Lift too high.	13. Misalignment.
4. Supply level too low.	14. Shaft bent.
5. Supply level too high.	15. Binding of rotating elements.
6. Pump not primed.	16. Cavitation.
7. Restricted lines.	17. Worn or defective motor bearings.
8. Leaks in suction line.	18. Motor undersized.
9. Pump too small.	19. Specific gravity changed.
10. Air or vapor in liquid.	20. Viscosity changed.

