

## FAILURES AND TROUBLESHOOTING OF PUMP

Failure	Causes	Troubleshooting
1、 Pump not suck in, pointers of pressure gauge and vacuum meter severely jumping	Water injected into the pump insufficient, air leaks from water inlet pipe, meters etc.	Inject water into pump, tighten the leaking places
2、 Pump not suck water, high vacuum shown on vacuum meter	Foot valve not opened or blocked up, too big resistance with water sucking pipe, too high suck-in height	Correct or replace foot valve, clean or replace water sucking pipe, lower the height
3、 Pressure available at pump outlet viewing from pressure gauge while no water out of pump	Too big resistance with water outlet pipe, wrong rotating direction, impeller blocked up, or pump damaged, insufficient r.p.m.	Check or shorten outlet pipe, check motor, remove the pipe union, clean or replace impeller, raise r.p.m.
4、 Insufficient flow	Pump blocked up, too much friction with seal ring, insufficient r.p.m.	Clean pump and pipe, replace seal ring, raise r.p.m.
5、 Too big power the pump consumes	Too tightly pressed packing gland, packing room heated, impeller worn out, water supply quantity of the pump increases	Loosen packing gland or replace packing, replace impeller, increase resistance with outlet pipe to reduce the flow
6 Abnormal sound inside of pump, no water into pump	Too big flow, too big resistance inside of water sucking pipe, too high water-sucking height, air gets in the water-sucking place, too high temperature of the liquid being transported	Increase the resistance inside of water outlet pipe to reduce the flow, check water-sucking pipe and foot valve, lower the height, tighten the air leaking places
7、 Pump vibrates	Axes of pump and motor not on one central line, dirt or water gets into the bearing	Align the two central lines, clean bearing, replace lubricating grease
8、 Bearing overheated	Lubricating grease dried or dirty, axes of pump and motor not on one central line	Check or clean bearing, replace lubricating grease, align the central lines
9、 Balancing water stops, balancing room heated, motor's power increased	Pump runs under a big flow and low head, grinding occurs between balancing disk and board	Close outlet valve to the designed working condition, remove balancing disk for repairing