

Breakdown causes and remedies

Breakdown	Causes	Disposal ways
Pump doesn't prime water, fingers of manometer and vacuum meter sway greatly.	The water is the pump is not enough. Water pipes or meters leak gas.	Pour water into the pump again or fasten and block up the leakage place.
Pump doesn't prime water, vacuum meter shows high vacuum.	Foot valve is not open, or has been clogged, resistance of suction pipe is great, height of the suction pipe is too high.	Correct or change foot valve, clean or replace suction pipe, reduce suction height.
The manometer shows pressure in pump's outlet, but pump still doesn't discharge water	Resistance of the discharging pipe is great, rotation is wrong, impeller is blocked.	Check or shorten water pipe and check motor, put down the pipe joint, wash the impeller.
Capacity is lower than expected.	Pump is clogged, wearing is worn too much.	Clean pump and pipeline, replace the wear ring.
Consuming power is too much.	Stuffing box is too tight, or the impeller is damaged due to wearing, pump capacity is increased.	Tighten stuffing box, or take out the packing to make it more square, replace the impeller, increase the resistance of the discharging pipe to reduce the capacity.
Sound inside of the pump is abnormal, and the pump doesn't supply water.	Too large capacity, resistance inside of the suction pipe is great, suction height is over due. There's leakage on the suction area. The liquid's temperature is too high.	Increase the resistance inside of the discharging pipe to reduce the capacity, check the resistance of pump's suction, check ground valve and reduce the suction height, tighten and block up the leakage place, reduce the liquid temperature.
Bearings are overheating.	There's no oil, pump shaft and motor shaft aren't on the same.	Pour oil, adjust the alignment.
Pump shakes.	Axles of pump and motor aren't on one center line.	Adjust the alignment between the pump and motor