

VERTICAL OPENWELL SUBMERSIBLE MONOBLOCK





WARNING





Trouble Shooting

To prevent serious accidents, disconnect the power supply before inspecting the pump.

Read this Operation Manual thoroughly before requesting repair. Contact the dealer from whom the pump was purchased. Servicing and troubleshooting must be handled by qualified persons with proper tools and equipment. Common faults, root causes for these, and suggested actions are provided in the table below:

FAULT	POSSIBLE CAUSES	SUGGESTED ACTIONS
Pump does not discharge water	NRV is jammed	Check and replace.
	No power supply to the motor	Check for availability of power.
	Motor coil burnt	Rewind the motor.
	Low-voltage operation	Operate when the voltage increases.
	Motor starter overload has tripped	Reset the motor starter overload. If it trips again, check the voltage.
	Phase absent	Contact local EB representative.
	The ELCB has tripped out	Cut in the circuit breaker.
	Fuse has blown	Replace fuse.
	Loose connections	Tighten the electrical connections.
	Pump / Motor shaft has sheared	Replace the assembly rotor / pump shaft.
Less discharge from pump	Low-voltage operation	Check and wait for voltage to increase. Contact local EB representative if required.
	Wrong direction of rotation	Interchange the supply connections of any two phases.
	Total head higher than specified head	Wrong selection.
	Smaller pipe size used when compared to nameplate recommendations	Replace with suggested pipe size.
	Discharge pipe internally coated with depositions	Clean the pipe.
	Foreign bodies lodged in impellers	Check the impellers and remove the foreign bodies.
	The valve in the discharge pipe is partly closed / blocked	Check and clean/replace the valves if necessary.
	The NRV of the pump is partly blocked	Check and clean NRV. Replace if necessary.
	Impeller is worn out	Check and replace.
	Leakage in the pipework	Check and repair/replace piping.

Total head developed is too low	Abrasive wear of pump hydraulics due to operation in water of higher sand content or corrosiveness	Change the worn-out pump parts.
	Running at low-voltage	Wait for voltage to increase or contact local EB representative.
Current consumption in excess	Two-phase supply	Wait for 3-phase supply.
	Voltage too low	Check the voltage.
	Defective rotor	Change the rotor.
	Rotor rubbing against stator ID due to bend	Check and replace the rotor.
	Low system head and therefore higher discharge	Throttle the discharge.
	Defective thrust/journal bearings	Replace thrust/journal bearing.
Pump runs rough and noisy	Pump bearings worn out	Dismantle and replace worn out bearings.
	Pump cavitating due to high discharge	Throttle the discharge.
	Rotor shaft is bent resulting in rotor rubbing against stator bore	Replace rotor shaft.
Pump leaks excessively	Gaskets/O-rings damaged	Check and replace gaskets/O-rings.
	Pipeline damaged	Check and replace piping.

 NOTE	Conduct trial operation after maintenance.
 NOTE	Dispose replaced components with appropriate care so as to protect the environment.
 WARNING	Do not try to solve unspecified troubles of the pumpset as it may lead to severe damage to the pump or injury to personnel. Contact the dealer from whom the pumpset was purchased.
 CAUTION	If the pumpset runs with unusual noise, stop it immediately. Check (a) the journal bearings for wear (b) rotor outer diameter rubbing against stator inner diameter.

