

QP pump instructions

SAFETY FIRST

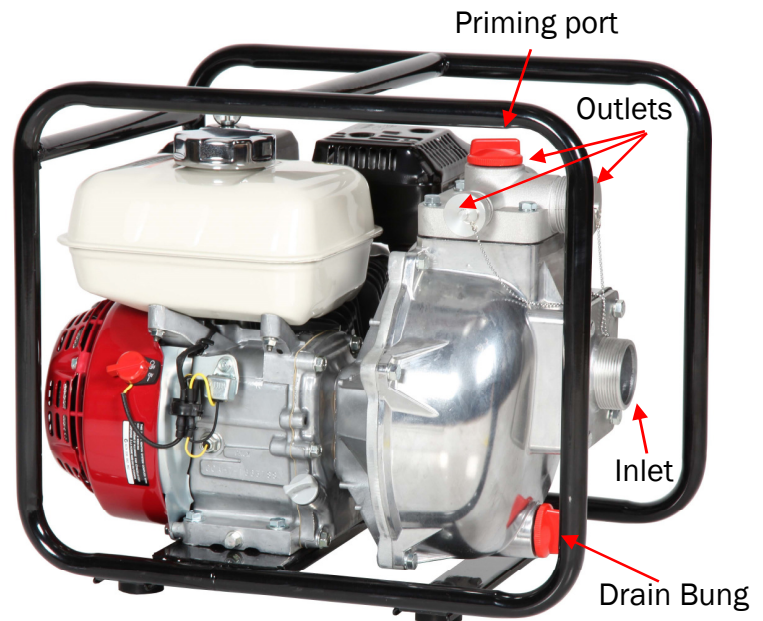
Read these instructions and separate motor instructions before using.

Do not use in an enclosed areas as exhaust gasses can cause asphyxiation

Do not refuel while engine is running.

Do not overfill or spill fuel on hot engine

Do not pump flammable liquids.



Setting up pump for use

Motor is not supplied with oil — add oil to manufacturers recommendations.

Use unleaded petrol.

Do not run pump without water as this will damage seal. Pump casing must be filled with water to prime before running.

Place pump on firm level site as close to water as practical.

Always use rigid hose no smaller than 40mm on the suction side of the pump and keep as short as practical. The length of time it takes to prime is proportional to the length of suction hose.

Take care to ensure there are no leaks on the suction side of the pump.

Fit a suitable strainer to the end of the suction line to prevent debris being sucked into the pump.

Ensure suction hose is suitably submerged to prevent air being sucked in.

Pumping water with silt or other solids will wear pump prematurely,

Do not shut off discharge suddenly or allow vehicles to run over the discharge hose as this will cause the damage to pump. Damage to pump from Hydraulic shock is not covered by warranty.

If pump sounds like it is pumping stones (cavitating) this will damage pump. Use shorter or larger diameter suction hose or Increase delivery head by restricting the outlet till noise goes away.

Practically all breakdowns can be prevented by proper handling and maintenance inspections, but in the event of an issue check the Troubleshooting information shown below.

PUMP TROUBLESHOOTING		
SYMPTOM	POSSIBLE PROBLEM	SOLUTION
Pump does not take on water.	Not enough priming water in the housing?	Add water
	Engine speed too low?	Increase throttle
	Strainer plugged?	Clean strainer
	Suction hose damaged?	Replace or repair hose & clamps
	Air leak at suction port?	Check that fittings are tight & sealed
	Pump is located too high above water line?	Move pump closer to water
	Debris collecting in pump housing?	Clean pump housing
	Too much distance between impeller and volute.	Adjust clearance by adding shims or replace impeller. Min. .010" -Max. .020
	Water leaking out weep hole between pump and engine?	Check condition of mechanical seal & gaskets, between pump end and engine housing
Pump takes in water, little or no discharge.	Suction lift or discharge head too high.	Check hose/pipe installation
	Engine speed too low?	Increase throttle speed
	Suction strainer partially plugged?	Clean strainer
Suction hose leaks at inlet	Impeller/volute worn?	Adjust clearance by adding shims or replace impeller/volute
	Fittings/clamps are not sealed properly?	Tighten, replace or add clamp. (Keep extra seals on pump)
Discharge hose does not stay on coupling.	Hose diameter is too large?	Use smaller diameter hose or replace hose
	Pressure too high?	Check pressure, add additional clamp
Impeller does not turn, pump is hard to start.	Hose kinked or end blocked?	Check hose
	Impeller jammed or blocked?	Open pump cover and clean dirt and debris from inside housing
	Impeller and volute binding?	Adjust clearance by removing shim from behind impeller
	Defective engine?	See Engine Owners Manual

Engine Troubleshooting; refer to engine manufacturer's manual

