



## Piston Wellpoint Pump Troubleshooting Guide

Series: PW

Symptoms	Causes	Corrections
<b>Pump fails to prime – low vacuum</b>	Pump not filled with water Air leaks on suction side Speed too low Air lock Worn piston/cylinder Excessive packing leaks	Fill pump with water Tune wellpoint system Increase within recommended limits Vent air/install air release valve Rotate cylinder/replace piston leathers Tighten packing
<b>Pump fails to prime – high vacuum</b>	Excessive suction lift Obstruction in suction line	Lower if possible or select larger piping Clear obstruction
<b>Pump takes a long time to prime</b>	Speed too low High suction lift and/or long header system Air leak on suction side High discharge head Excessive packing leaks	Increase within recommended limits Reduce if possible Tune wellpoint system Reduce head/provide larger piping Tighten packing
<b>Unit shuts down unexpectedly</b>	Engine ran out of fuel Clogged fuel filter Low engine oil pressure or high temperature	Refill with fuel Change filter Check engine

<b>Reduced performance</b>	Air leaks Excessive suction lift Speed too low Discharge head too high Worn pistons/cylinders	Tune system Lower if possible or select larger piping Increase within recommended limits Lower if possible or select larger piping Rotate cylinder/replace piston leathers
<b>Vacuum Fluctuating/ flow surging</b>	Excessive suction leaks Pump running too fast	Tune wellpoint system Lower engine speed
<b>Excessive vibration</b>	Air in fuel line or clogged fuel filter Excessive suction lift Air bleeder valve not adjusted properly Pump running too fast Excessive suction leaks	Purge air and replace filter Reduce suction lift Adjust bleeder valve Lower engine speed Tune the wellpoint system
<b>Pump will not rotate</b>	Belts out of adjustment or worn	Adjust/replace belts