



Compressor Priming Centrifugal Pump Troubleshooting Guide

Pump Series: HTC, TSC, STC, JSC, JC

Symptoms	Causes	Corrections
Pump fails to prime – low vacuum	Insufficient product at inlet Pump drain valve left open Priming chamber valve closed Speed too low Air leak on suction side Air lock Discharge priming valve not seating Venturi or priming chamber bumper plugged Mechanical seal leaking	Reposition inlet/piping Close drain valve Open priming chamber valve Increase within recommended limits Fix leaks Vent air/install air release valve Clear obstruction/check for wear Clear any obstructions Check and repair/replace as required
Pump fails to prime – high vacuum	Strainer clogged Excessive suction lift Collapsed or obstructed suction line.	Clean strainer Lower if possible or select larger piping Clear or replace.
Pump takes a long time to prime	Speed too low High suction lift and/or long hose length Air leak on suction side Discharge priming valve obstructed or worn Worn air compressor or venturi	Increase within recommended limits Reduce if possible Fix leaks Clear obstruction/check for wear Repair/replace

Pump fails to hold prime when turned off	<p>End of hose/strainer out of fluid</p> <p>Discharge check valve obstructed or worn</p> <p>Air leak on suction side of pump</p> <p>Priming chamber non return valve obstructed</p>	<p>Check pipe/strainer submergence</p> <p>Clear obstruction/check for wear</p> <p>Fix leaks</p> <p>Clear obstruction/check for wear</p>
Reduced performance	<p>Vortexing/improper submergence</p> <p>Air leaks on suction side</p> <p>Strainer or impeller partially clogged</p> <p>Excessive suction lift</p> <p>Speed too low</p> <p>Discharge head too high</p> <p>Pump internals worn</p>	<p>Lower strainer deeper in sump</p> <p>Fix leaks.</p> <p>Clear any obstructions</p> <p>Lower if possible or select larger piping</p> <p>Increase within recommended limits</p> <p>Reduce or select larger piping</p> <p>Adjust/replace as necessary</p>