

PRIMING SYSTEM TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE
“Pop - off” valve lifts and discharges compressed air:	Wrong jet / nozzle installed in the priming system Carbon / debris in venturi jet Blockage in compressor discharge line Blocked / stuck check valve in compressor discharge line Check valve in backwards Blockage / restriction in venturi discharge line Defective “pop - off” valve
Pump will not hold prime:	Defective 1” priming ball Air leak in pump volute assembly / non return valve Non - return valve not seated due to obstruction or wear Gasket leak in assembly Venturi “o-rings” worn / missing
Pump draws low vacuum:	Excessive wear on venturi jet / nozzle Venturi “o-rings” worn / missing Air leak in assembly Carbon / debris in system - is “pop off” releasing? Blocked priming tee suction strainer Suction piping problem - external to pump Compressor problem (See trouble shooting below)
Compressor Sounds Irregular:	Broken / unseated / malfunctioning valve
Leaking oil below head:	Blown head gasket
Plugged air filter:	Clean / replace as required
Breaking timing belts:	Check belt tension
Low / oscillating oil pressure:	Bad oil pump
Heavy oil usage / discharge:	Worn rings and / or bores