

PRIMING SYSTEM CHECKS

- a) **Drain Valve and plugs**
 - ◆ Insure drain valve is shut and plugs are secure.
- b) **Non - Return Valve**
 - ◆ Discharge non return valve should be checked to see if it seats properly and is not obstructed or damaged.
- c) **Compressed Air Line**
 - ◆ Insure that the hoses are free from kinks, crushing and internal obstructions.
 - ◆ Removal and internal visual inspection is recommended to check for carbon buildup.
 - ◆ If internal restriction is suspected blast with compressed air.
- d) **Check Valve**
 - ◆ If the unit is fitted, check the internal spring for operation and check the body of the unit for carbon buildup.
- e) **Compressor**
 - ◆ See section #3 for details on compressor internals and rebuilding.
- f) **Compressor Air Filter (s)**
 - ◆ Standard checks are for canister and element damage and filter element cleanliness.
 - ◆ If the filter is damaged it should be replaced, if dirty it can be cleaned with compressed air *blasted from the inside of the filter to the outside.*
- g) **Compressor Pressure Relief Valve (Pop - off)**
 - ◆ The pressure relief valve is set to release at 125 psi.
 - ◆ The unit can be easily checked by pulling the ring with a light force to check that the internal plunger operates freely.
 - ◆ If the unit appears to be damaged or malfunctions it should be replaced.
- h) **Venturi Jet and Nozzle**
 - ◆ The reference chart in the appendices details the correct combinations by model.
 - ◆ If incorrect jets or nozzles are fitted then they should be traded.
 - ◆ Evidence of internal wear on the jet should be checked, as this will seriously affect priming performance.
 - ◆ “O - rings” should be checked for wear and damage.
- i) **Separation Tank Cover / Ball Seat Fit**
 - ◆ The threads fit here is a potential source of leakage and inability to hold prime in the pump.
- j) **Separation Tank Cover Ball**
 - ◆ Damage to the 1” priming ball will adversely affect priming performance.

IF NONE OF THE ABOVE ARE FOUND TO BE THE CAUSE OF THE PROBLEM THEN THE COMPRESSOR SHOULD BE CHECKED.