



## Risk Element

- High pressure injection;
- Particle ejection;
- Sprains/strains;
- Falling objects.

## Precautions to Eliminate/Reduce Risk

- Only competent persons are to use the Leak Test Equipment;
- Wear issued protective workwear, Safety Footwear, Eye protection, Gloves;
- Adopt good manual handling techniques in accordance with training, where possible use lifting aids;
- Ensure work area is free of obstacles to prevent slips, trips and falls;
- Work safely at all times, complying with health and safety and other relevant regulations, directives and guidelines;
- Use equipment as directed in manufacturer's instructions, if you are unsure ask Management/supervisor;
- Check any tools before use for damage/wear;
- Deal promptly and effectively with problems within your control and report those that cannot be solved;
- Ensure guarding checks are carried out prior to use.

## Safe Working Method

- (a) Ensure the nitrogen cylinder valve is turned off.
- (b) Ensure the regulator on the nitrogen cylinder is wound fully out.
- (c) Check gauge on manifold is in calibration.
- (d) Ensure the manifold discharge valve is open.
- (e) Attach hoses to compressor, ensure the compressor charging valve is open.
- (f) Turn on nitrogen cylinder valve and pre charge compressor to 20 psi.
- (g) The compressor undergoing leak testing shall be placed on the bottom of the leak test tank, Crane hook removed and safety pins inserted to lock tank.
- (h) Pressure to be increased gradually to 500 psi and check for leaks.
- (i) If a leak is found the discharge valve is to be opened and pressure reduced to 20 psi.
- (j) Remove compressor from leak tank and reduce pressure to zero, move compressor to workbench.
- (k) Carry out any remedial work to cure leak.
- (l) Repeat pressure test from paragraph d to h.
- (m) When no leaks are found hold pressure for 2 minutes.
- (n) On completion of the forgoing the discharge valve can be opened and pressure reduced to 20 psi, The compressor can now be removed from the tank.
- (o) any surface water blown off with an air gun, reduce pressure to zero and the hoses can be removed.
- (p) Ensure the leak test area is left in a safe condition and remove the compressor to the next process.