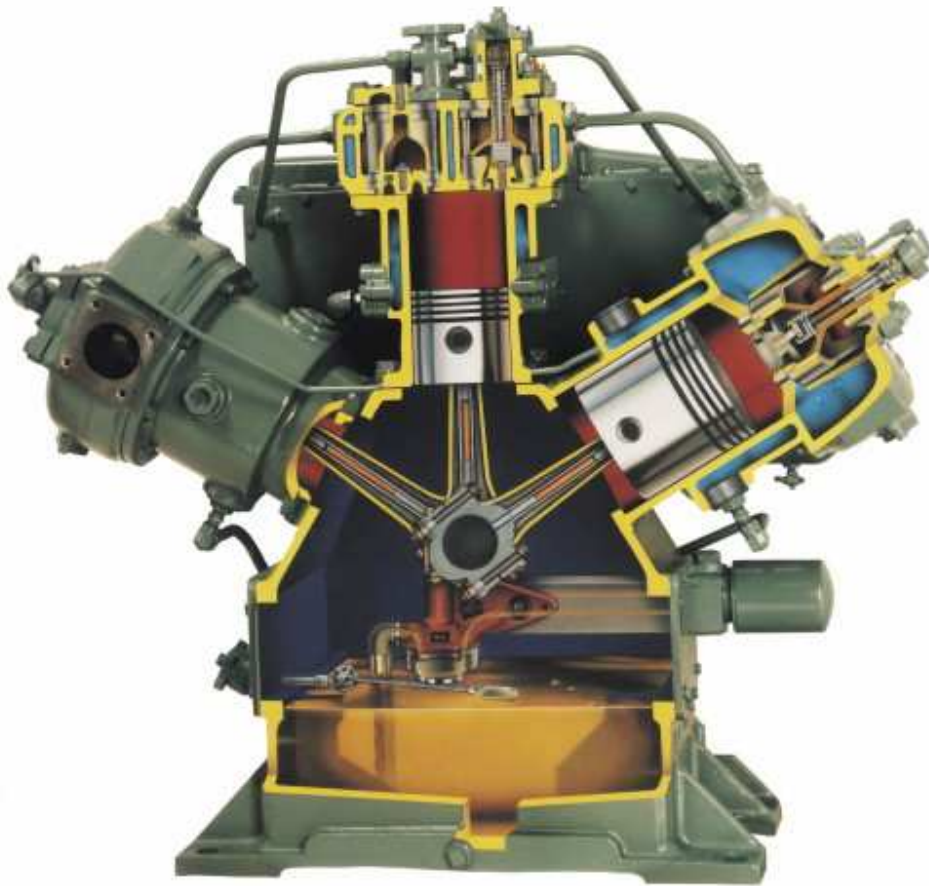


## Air Compressor Safe Procedures



## SAFE OPERATING PROCEDURES

1. Before starting the compressor, be sure the manual and all warning signs have been completely read.
2. Remove moisture Air receiver by opening the drain valve.
3. Observe crank case oil is 3/4 to 1/2 level of sight glass if not make crank case oil level with fresh oil.
4. Turn on full supply of cooling water by opening gate valve on cooling water line.
5. Put main switch ON press the green bush button of pressure control switch and then push the start push button & press the pressure control push button till the motor goes from start to Delta connection.
6. Operate the Air Compressor in following operating conditions-
  - a) Oil pressure should be in between - 15 to 40 PSI
  - b) Loading and unloading pressure with in the limit
7. Pipes should be properly labeled that carry compressed air and the direction of air flow correctly labeled with an arrow. Shutoff valves should be properly labeled and identified so air can be shut off quickly in an emergency situation.
8. Hoses, fittings, regulators, and valves should be inspected periodically for leaks, damage, and other defects.
9. Goggles must be worn over safety glasses when cleaning with compressed air.
10. Flexible air hoses should be kept as short as possible to minimize tripping hazards and to reduce whipping action in the event a hose would fail.
11. High pressure jacketed lines should be anchored at several points to prevent them from whipping.

## SAFETY AND ENVIRONMENT EDUCATION FOR DEVELOPMENT

12. Quick disconnect fittings should be installed on flexible air hoses in high fire hazard areas; the hoses can be disconnected quickly, preventing whipping actions that might not only cause injury and damage but also stoke a fire.
13. Use a vacuum system rather than compressed air for cleaning whenever possible. Vacuuming stirs up less dust and other particles than an air compressor does.
14. DO NOT use compressed air to:
  - Transfer flammable liquids.
  - Static electricity build-up can discharge and ignite the liquid.
  - Empty containers - The container could rupture due to excessive internal pressure.
  - Clean clothes, hair, or skin.
15. When using compressed air, direct air away from eyes and skin.
16. To reduce noise exposure and prevent exhaust from the equipment or tool, direct the pressure relief valve away from work areas.
17. Note down the operating conditions in daily log-book.
18. Unload the air compressor by the spring adjuster nut at Auxiliary valve.
19. Stop the air compressor by RED bush button and switch OFF the main switch.
20. Close cooling water line gate valves.

# SAFETY AND ENVIRONMENT EDUCATION FOR DEVELOPMENT

## INSPECTION PROCESS

Department/Division: \_\_\_\_\_ Date Of Inspection: \_\_\_\_\_

Location: \_\_\_\_\_ Inspector: \_\_\_\_\_

Criteria	Yes	No	Comments
• Are compressors equipped with pressure relief valves and pressure gauges?	<input type="checkbox"/>	<input type="checkbox"/>	
• Are air filters installed on the compressor intakes?	<input type="checkbox"/>	<input type="checkbox"/>	
• Are safety devices on compressed air systems checked frequently?	<input type="checkbox"/>	<input type="checkbox"/>	
• Are signs posted to warn of the automatic starting feature of the compressor?	<input type="checkbox"/>	<input type="checkbox"/>	
• Is the belt drive system guarded to provide protection for the front, back, top and sides?	<input type="checkbox"/>	<input type="checkbox"/>	
• Is compressed air used for cleaning reduced to less than 30 psi at the nozzle?	<input type="checkbox"/>	<input type="checkbox"/>	
• When using compressed air for cleaning, is eye and face protection provided and worn?	<input type="checkbox"/>	<input type="checkbox"/>	
• Are locking devices used at couplings of high-pressure hose lines?	<input type="checkbox"/>	<input type="checkbox"/>	
• Is every air receiver equipped with a pressure gauge with one or more automatic, spring-loaded safety valve(s)?	<input type="checkbox"/>	<input type="checkbox"/>	
• Is every air receiver provided with a drainpipe and valve at the lowest point for removal of accumulated oil and water?:	<input type="checkbox"/>	<input type="checkbox"/>	
• Is the air receiver's inlet and piping system kept free of accumulated oil and carbon materials?	<input type="checkbox"/>	<input type="checkbox"/>	