

## Taldeco Maintenance Test Pneumatics & Hydraulics

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1. Shutting the fluid discharge of an air operated reciprocating pump will cause the pump to

- A. Reverse direction
- B. Stall
- C. Lift the relief valve
- D. Overstroke

2. Pressure on a confined fluid is

- A. Higher at the inlet
- B. Distributed equally in the fluid
- C. Lower than inlet pressure
- D. Higher than inlet pressure

3. Which best describes the piston surface area of a single rod, double acting piston

- A. Spring loaded
- B. Unequal
- C. Equal
- D. Balanced

4. The speed of a piston is determined by the

- A. Amount of metered outlet air
- B. Size of piston
- C. Size of the solenoid valve
- D. Limit switch

5. Peak hydraulic system demands may be met by the use of

- A. An Accumulator
- B. A dual system
- C. A large reservoir

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D. An oversize pump

6. A 40% pressure drop across an oil filter screen indicates that the

A. Screen is broken

B. Line pressure is too low

C. Screen is dirty

D. Line pressure is too high

7. Install an air lubricator in a pneumatic system

A. Before the separator

B. After the regulator

C. Before the regulator

D. After the separator but before the regulator

8. Before opening the tank valve on an oxygen cylinder which is connected to an oxy-fuel cutting torch, you should turn the diaphragm screw

A. All the way out

B. 1/2 way out

C. 2/3 way out

D. All the way in

9. Fluid clutches are used on equipment that is subjected to

A. Shock loading

B. Misalignment

C. Frequent stopping

D. Continuous running

10. What is the most important use of oil film lubrication?

A. Separate moving surfaces

B. Prevent corrosion

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C. Increase pressure

D. Increase friction

11. An EP grease would be best suited for which of the following

A. High speed, low pressure

B. High speed, low temperature

C. Low speed, low pressure

D. Low speed, high pressure

12. When air is compressed, it's temperature

A. Increases

B. Decreases

C. And volume decrease

D. And volume increase

13. What information is needed to calculate the force that a hydraulic cylinder can exert?

A. Diameter of inlet pipe

B. Piston stroke

C. Flow rate

D. Hydraulic pressure (PSI)

14. A positive displacement pump is a pump that

A. Has positive, unlimited suction capabilities

B. Discharges an equal amount of fluid each cycle

C. Permits positive control over discharge pressures

D. Is suitable only for pumping hydraulic fluids

15. In a centrifugal pump, "cavitation" can result in

A. A slight increase in discharge pressure

B. A general improvement in pump performance

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- C. A reduction in pump net positive suction head requirements
  - D. Pitting of the impeller
16. The frequency of operation of a steam trap is governed by
- A. An automatic timing device
  - B. The amount of condensate formed in the line
  - C. The steam pressure in the line
  - D. The size of the steam line
17. A pilot flame detector can be a
- A. Solenoid
  - B. Flame rod
  - C. Regulator
  - D. Pressure gauge
18. The core material in a DC relay consists of
- A. A coil of copper wire
  - B. A permanent magnet
  - C. Soft iron
  - D. Laminated plastic
19. What is the purpose of connecting a diode across a DC-operated relay coil?
- A. To eliminate relay chatter
  - B. To increase relay magnetic pull
  - C. To maintain constant Dc drop across the relay
  - D. To soak up inductive kick
20. If the primary coil of a transformer has more turns than the secondary, it is a
- A. Step-down transformer
  - B. Step-up transformer

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C. Variable transformer

D. Fixed transformer

21. A transducer will

A. Open an oil circuit breaker when a trip signal is present

B. Remove voltage spikes on a transmission line

C. Provide lightning protection

D. Provide feedback

22. The start button in a motor control circuit is released. The motor starter contacts open or the coil does not remain energized. The trouble is likely to be in the

A. Stop switch contacts

B. Overload resets

C. Holding contact circuit

D. Motor starter coil

23. The purpose for supports for piping is to

A. Maintain line pressure

B. Prevent sagging

C. Prevent corrosion

D. Allow cleaning

24. What type of valve would be used to shut off a line?

A. Stop valve

B. Relief valve

C. safety valve

D. Back-pressure valve

25. Air supplied to a burner for combustion reaction is

A. Combustion Air

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B. Tertiary air

C. Pilot air

D. Compressed air

26. When working with an ammonia system, you should NOT use

A. Schedule 80 pipe

B. Steel pipe

C. High pressure seamless pipe

D. Copper or brass fittings

27. What is the first thing to do when there is a breakdown?

A. Find the reason for the breakdown

B. Repair the breakdown

C. Locate the breakdown

D. Eliminate the reason for the breakdown