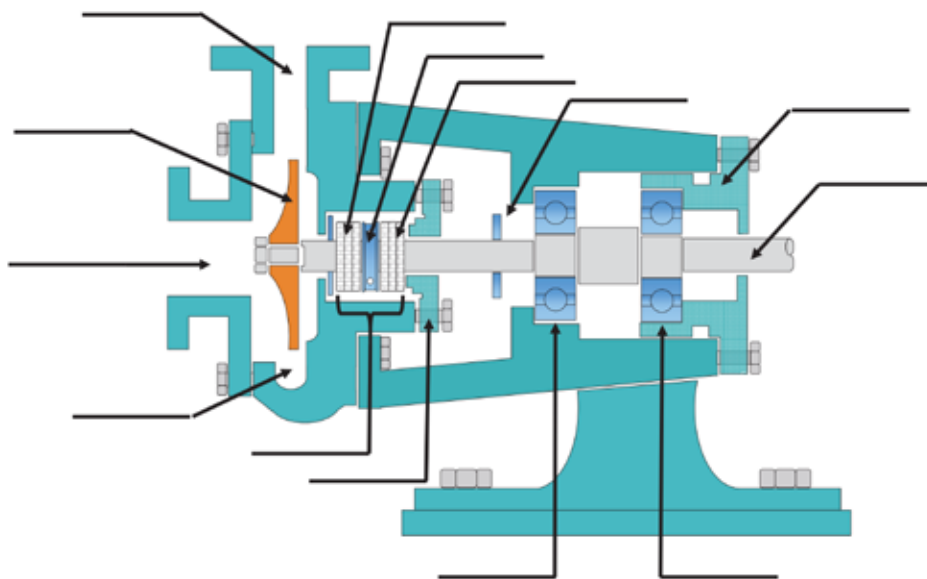


Test your knowledge of centrifugal pumps

Sidney Innerebner



1. Match the labels below to the correct piece of the pump on the diagram above.

- | | | |
|------------------|----------------|-----------------|
| ■ Impeller | ■ Wear ring | ■ Suction/inlet |
| ■ Thrust bearing | ■ Lantern ring | ■ Discharge |
| ■ Shaft | ■ Packing | ■ Case/housing |
| ■ Volute | ■ Gland | ■ Seal water |
| ■ Radial bearing | ■ Slinger | ■ Motor |

Match the labels above to the function they perform.

2. Connects impeller to motor: _____
3. Prime mover of water: _____
4. Ensures stuffing box is air-tight: _____
5. Adjusts leakage rate from stuffing box: _____
6. Channels water to impeller: _____
7. Rotates impeller: _____
8. Prevents fluid from reaching bearings: _____
9. Sacrificial metal – protects pump housing: _____
10. Connection point for seal water: _____
11. Stabilizes shaft: _____

See answer key on p. 58.

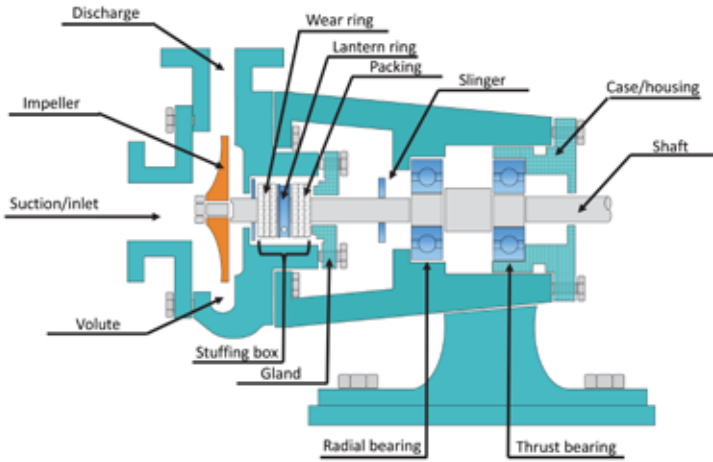
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Adapted from Workshop 15: Practical Operation and Maintenance of Pumps: Centrifugal and Rotary Lobe Pumps presented at WEFTEC® 2015.

Certification quiz answer key

(See quiz on p. 57.)

1. Match the labels below to the correct piece of the pump on the diagram.



Match the labels above to the function they perform.

2. Connects impeller to motor:
Shaft
3. Prime mover of water:
Impeller
4. Ensures stuffing box is air-tight:
Seal water
5. Adjusts leakage rate from stuffing box:
Gland
6. Channels water to impeller:
Suction/inlet OR Volute
7. Rotates impeller:
Motor OR Shaft
8. Prevents fluid from reaching bearings:
Slinger
9. Sacrificial metal – protects pump housing:
Wear ring
10. Connection point for seal water:
Lantern ring
11. Stabilizes shaft:
Radial bearing and/or Thrust bearing