



## **Indian Standard IS 8418 : 1999 -Centrifugal Self Priming Pumps**

**Centrifugal self-priming pumps** are a type of centrifugal pump designed to handle both liquid and air, allowing them to **automatically prime** themselves without manual intervention. Unlike standard **centrifugal pumps**, they can operate effectively even when the suction line is not entirely filled with liquid. The pump housing is designed to retain enough liquid to create a vacuum that draws the fluid into the pump, making it suitable for applications where air may enter the system or where the suction line is initially dry.

Consumers expect **Centrifugal self-priming pumps** to deliver reliable and efficient performance, especially in scenarios where the **suction lift** is required, such as in irrigation, wastewater management, and flood control. Key expectations includes-**Self-Priming Capability, Guarantee of Workmanship and Material of Construction, Ease of Maintenance, Good Performance etc**

**Indian Standard IS 8418** standard specifies the technical requirements for horizontal/vertical, single/multi stage centrifugal self priming pumps for handling clear cold water. Some of the important characteristics addressed in Standards are as follow;

- **Self-Priming Time:** Standard specifies the maximum time allowed for the pump to achieve self-priming, ensuring efficient startup.
- **Materials of Construction:** The standard mandates using corrosion-resistant materials to enhance the durability and longevity of the pump.
- **Performance Testing:** Standard outlines test procedures for verifying the pump's efficiency, capacity, and self-priming capabilities under different operating conditions.
- **Marking and Identification:** Standards defines the requirement of labelling such as clear labeling of the pump's specifications, helping consumers select appropriate models for their needs.