

## **Indian Standard IS 13049 : 1991 - Diaphragm type (plastic body) float operated valves for cold water services**

**Diaphragm type float-operated valves**, made of plastic body, are commonly used in cold water services for controlling the flow of water based on the water level in a tank, cistern, or other similar containers. These valves are designed to open or close automatically depending on the water level, ensuring that the system maintains a specific water level without overflowing or running dry.

A float is attached to the valve mechanism. When the water level rises or falls, the float moves with it. If the water level reaches a **preset height**, it triggers the diaphragm valve to either open or close, depending on whether the system needs to fill or stop water flow.

Indian Standard IS 13049 : 1991 - **Diaphragm type** (plastic body) float operated valves for cold water services, developed by the Bureau of Indian Standards (BIS), specifies materials, workmanship, performance and sampling requirements, dimensions and tolerances of a diaphragm type float operated valves for water services up to 45 degree Celsius for use in flush tanks, overhead water tanks, etc.

The standard is based on the principle that the flow of water is controlled by the flexing of a diaphragm and which incorporates or is fitted with a discharge arrangement to conduct the water into the cistern.

Conformity to this standard ensures that all general and functional requirements are adhered to and meet consumer's expectations, such as optimum materials employed, workmanship and finish, dimensional requirements, performance related requirements such as flow, endurance, etc.

So in order to make sure that the float operated valves employed for household needs serves the intended purpose, always look for the **BIS standard mark**.