

IS 2373: 1981 – Water Meters (Bulk Type) – Specification (Third Revision)

This standard specifies bulk-type water meters used primarily for measuring water flow in public or private water supply systems. It encompasses both vane-wheel (impeller) type and helical-type water meters, suitable for installation diameters ranging from 50 mm to 500 mm.

Consumers expect water meters to provide accurate measurements, have high durability, and maintain performance reliability. The consumer also wants resistance to corrosion, ease of installation, and minimal maintenance requirements.

IS 2373: 1981 addresses the above expectations by providing specifications for different parameters which outline material quality, construction standards, and design features that enhance meter life and precision. The standard specifies the use of corrosion-resistant materials like cast iron, bronze, or brass for meter casings, ensuring long-term durability even under adverse environmental conditions. Vane-wheel meters are designed with multiple symmetrical vanes on a vertical spindle, while helical meters utilize a multi-threaded helix for improved accuracy over a broad flow range. Accuracy and reliability are ensured with specifications for proper assembly and quality components that reduce maintenance frequency and enhance operational reliability.

Keywords: Bulk water meters, water flow measurement, corrosion-resistant, durable water meter, accurate water meter, precision flow measurement, public water system supplies.