

SUMMARY OF INDIAN STANDARD IS 779 : 1994

WATER METERS (DOMESTIC TYPE) SPECIFICATION (Sixth Revision)

Water meter is an instrument for measurement of quantity of water delivered to a consumer and also can serve the purpose of monitoring the efficiency of water distribution system. The water meters are the final link between a consumer and the water authority to ensure equitable distribution of water and financial sustainability of the project. IS 779 : 1994 is the Indian Standard for WATER METERS (DOMESTIC TYPE), initially published in 1956 and revised multiple times until 1994, establishes guidelines on terminology, construction, and technical and metrological characteristics for domestic water meters with threaded end connections of up to 50 mm in size. The standard applies to water meters that measure cold potable water at a nominal pressure of 1 MPa and includes both semipositive (piston type) and inferential (turbine type) meters, available in dry or wet dial types.

Water meters are specified in nominal sizes (**15, 20, 25, 40, and 50 mm**) [The nominal size of the water meter is denoted by the nominal bore of its end connections] and are classified as **Class 'A' or Class 'B' based on maximum verification scale interval and metrological characteristics**. Meters are further categorized by **jet type** [Single Jet / Multi jet], **Type** [as Semi positive (piston type)/Inferential (turbine type) including magnetic type] and **Type of Dial** [as Wet Dial / Dry Dial type]. The standard details **material requirements, construction and installation guidelines, dimensions, and technical specifications**. It also outlines three testing categories: **production routine, type, and acceptance tests**.

Finally, the standard specifies the marking information such as Manufacturer's name or trade-mark, Nominal size and class of Water Meter, Direction of flow of water on both sides of the body of Water Meter, and Year of manufacture and serial number. In addition, detailed information on Selection, Installation and maintenance of Domestic Water Meters are given in the standard.

By standardising the mechanical and dimensional parameters of the product, and also the packing and marking information, the Indian Standard can serve as an extremely useful tool for both manufacturers and users and can help ensure that Water Meters (Domestic Type) conforming to this standard, are of the highest quality.

Given the importance of this product, **the Ministry of Commerce and Industry, Government of India** has mandated **compulsory BIS certification** for Water Meters (Domestic Type) as per this Indian standard under the **Water meters and accessories (Quality Control) Order**.