



Indian Standard IS 781:1984 - Your Guide to Good Quality Screw Down Copper Taps and Stop Valves

Bib taps are draw-off taps with horizontal inlet and free outlet whereas the stop valves are devices to control or stop the flow in a pipeline. Screw down bib tap or stop valve are closed by means of disc carrying a renewable non-metallic washer which shuts against the water pressure on a seating at right angles to the axis of the threaded spindle which operates it.

Bib taps are available in 8,10,15,20,25 mm sizes whereas the stop valves are available in 8,10,15,20,25,32,40 mm sizes. The size here indicates the nominal bore of the socket or pipe outlet to which the tap or valve is fitted.

Indian Standard IS 781, developed by the Bureau of Indian Standards (BIS), outlines the safety and performance requirements for Screw Down Copper Taps and Stop Valves.

The standard specifies the material of different components of the devices such as body, spindles, nuts, gland, crutch, washer etc. There are tolerances specified for all major dimensions such as diameter, threads etc. These devices shall be free from casting defects such as laps, blow holes, pitting and shall have smooth and clean internal and external surfaces for proper assembly.

The Indian Standard IS 781 specifies requirement of minimum mass of bib taps and stop valves to ensure the good quality. The bib taps shall always be bright polished whereas the stop valves may be bright polished or cast polished. There is also provision of Ni-Cr plating with a minimum thickness of coating of 10 micron.

Each tap/valve is tested under an internal hydraulic pressure of minimum 2MPa for a period of at least 2 minutes to ensure that the valve/tap does not leak or sweat.

Each tap/valve is marked with manufacture's name or trade mark, nominal size of the body and a direction arrow pointing in the direction of flow.

In summary, IS 781 is your assurance that the Screw Down Copper Taps and Stop Valves you buy are durable, and of high quality. Next time you purchase Screw Down Copper Taps and Stop Valves look for the BIS mark to ensure they meet these standards, giving you peace of mind for the best quality and durability.