

## **IS 9890:1981 General Purpose Ball Valves**

The Indian Standard IS 9890:1981 specifies requirements for general-purpose ball valves used in various **industries**, including **chemical, petroleum, power, and water treatment plants**. These valves regulate **fluid flow, pressure, and direction**. Good quality ball valves should possess **leak-tightness, structural integrity**, material compatibility, **smooth operation, high pressure rating, and corrosion resistance**. These parameters ensure **safe, efficient, and reliable** performance.

IS 9890:1981 addresses these quality parameters through key specifications: **materials, design, size** (15-150 mm), **pressure rating** (PN 10, 16, 25, 40), and **temperature range** (-20°C to 200°C). The standard outlines **dimensional tolerances, material requirements, weld quality, and surface finish**. Packaging prevents damage during transportation and storage. Sampling and testing protocols include **hydrostatic pressure tests, seat tightness tests, operational tests, and dimensional inspections**. Compliance ensures conformity to public safety and industrial regulations.

The **Ministry of Commerce and Industry** notifies this standard as a compulsory requirement. Manufacturers must comply to demonstrate compliance with Indian regulatory requirements. Adherence guarantees the quality and reliability of ball valves for various applications. By meeting IS 9890:1981, manufacturers ensure their products meet industry requirements, ensuring safe and efficient operation in critical industries.