



IS 9739:1981 'Specification for pressure reducing valves for domestic water supply systems'

Pressure-reducing valves are critical in **domestic water systems** to regulate high inlet pressures, ensuring safe and consistent water flow for household use. These valves prevent damage to downstream fixtures and maintain optimal pressure, addressing variations in supply. The Indian Standard, **IS 9739:1981**, specifies requirements for **pressure-reducing valves**, including **performance, material quality, and safety standards** to guarantee reliability and longevity in domestic settings.

Key specifications include pressure reduction ranges suited to common household pressures and the ability to maintain consistent output despite inlet fluctuations. The valves must meet **hydrostatic and pressure deviation tests**, confirming their resilience under different water pressures. Additionally, the standard defines material guidelines for corrosion resistance, ensuring durability and minimal maintenance needs. The standard refers to other standards like **IS 318, IS 210, IS 226, IS 2712, IS 1363, IS 4454(Part 1)** and **IS 6911** for raw material quality. To enhance safety, the valves are required to **resist leakage, noise, and environmental wear**, providing consumers with quiet and reliable operation.