

Indian Standard IS 8737:2017 Valve fittings for use with liquefied petroleum gas cylinders of more than 5 litre water capacity

A valve fitting is a mechanical device attached to a LPG cylinder that permits flow into or out of the cylinder when the device is in the open position and prevents flow when in the closed position. It is pre-fitted on a LPG Cylinder and cannot be bought from open market in India as it is governed by Gas Cylinder Rules .

A valve acts as an interface between the LPG Cylinder and the Gas Regulator. When choosing valve fittings for LPG cylinders, safety, durability, performance, and material compatibility are key factors. High-quality valve fittings ensure secure gas flow, resistance to leakage, and robust performance under various conditions, which are critical for both user safety and efficient LPG usage.

Valve fittings are an essential safety component in LPG cylinders. Indian Standard IS 8737, created by the Bureau of Indian Standards (BIS), specifies safety and performance requirements for valve fittings in LPG cylinders with capacities above 5 liters. This standard mandates rigorous tests like impact resistance, pneumatic testing, torque testing, and hydrostatic testing to confirm the valve's durability, leak-proof design, and ability to handle high pressure. These measures minimize the risk of gas leaks, ensuring that valves perform reliably and reduce safety risks for users. The standard also specifies the materials that valve fittings should be made from, ensuring they are durable and resistant to corrosion. This is important for consumers who use LPG cylinders in environments where humidity, dust, or other corrosive factors could affect the cylinder and valve integrity.

IS 8737 also ensures long-term performance by requiring endurance tests that simulate typical usage conditions, verifying that valves remain safe and functional over time. Markings on each valve, including manufacturing date, pressure rating, and BIS certification, help to identify valves that meet these safety standards. Additionally, the Quality Control Order from DIPP enforces that all LPG valve fittings sold, manufactured, or imported in India comply with IS 8737, ensuring high-quality, secure products for consumers.