IS 16484:2017 - Your Guide to Safe LPG Valve Fittings

When using LPG cylinders or tanks, safety, reliability, and performance are key priorities. Consumers expect valves that are durable, leak-proof, and efficient in handling liquid LPG in various conditions. These fittings must ensure safe withdrawal and filling of LPG, preventing leaks and accidents.

Indian Standard IS 16484:2017, developed by the Bureau of Indian Standards (BIS), specifies the safety, material, design, and performance requirements for liquid off-take valve fittings for LPG cylinders or tanks with over 75-liter water capacity. This standard ensures valves meet consumer expectations for safe and reliable performance in mobile and static applications.

The valves undergo rigorous testing for **leak-tightness**, **impact resistance**, and **durability** to handle high pressures and extreme temperatures (-20°C to +65°C). Tests include Hydraulic Pressure, Pneumatic Tightness, and Corrosion Resistance, ensuring valves can withstand operational stress without failure. Features like self-closing poppet valves and excess flow valves further enhance safety, preventing LPG discharge during emergencies.

To ensure long-term durability, materials such as brass alloys and non-metallic components must comply with strict quality standards. These materials are tested for compatibility with LPG and resistance to corrosion and wear. Safety relief valves are adjusted to prevent over-pressurization, protecting against potential accidents.

Markings on the valve, such as manufacturer details, safety valve capacity, and batch numbers, help consumers identify high-quality products. Compliance with IS 16484:2017, verified through the BIS Standard Mark, guarantees robust, safe, and high-performance valve fittings for LPG cylinders.

In summary, IS 16484:2017 assures you that the liquid off-take valve fittings you use meet stringent safety and quality standards. Look for the BIS mark to ensure your LPG system is secure, reliable, and built to last.