



IS 15100: 2018 Multi - Function valve assembly for permanently fixed liquefied petroleum gas (LPG) containers for automotive use - Specification (*first revision*)

Multi-function valve assembly used in permanently fixed **liquefied petroleum gas (LPG)** containers is designed to regulate LPG flow in vehicles, providing a safe, reliable means of managing fuel in pressurized containers. It combines multiple safety and operational features—such as automatic fill limiters, service valves, excess flow check valves, and pressure relief devices—into one assembly, ensuring the LPG is stored and dispensed securely.

The Bureau of Indian Standards (BIS) had formulated **IS 15100** which provides specifications for multi-function valve assembly for permanently fixed LPG containers for automotive use. This standard specifies materials, design, construction and testing requirements for multifunction valve (both **liquid** and **vapour withdrawal type**) assembly for permanently fixed type of LPG containers.

The valve assembly comprises of several components such as **Automatic Fill Limiter, Service Valve, Excess Flow Check Valve, Pressure Relief Device and Contents Gauge** as given in the standard.

This standard specifies the material requirements, test procedures such as pressure and leakage, vibration, compatibility and endurance, packing and marking requirements in order to meet the safety and performance requirements.

Each valve assembly must be permanently marked with details such as the manufacturer's identification, manufacturing date, and specific performance attributes. This marking facilitates inspections and ensures traceability.

This standard aims to ensure that the multi-function valve assemblies used in automotive LPG systems meet stringent safety and performance criteria, which is crucial for protecting users and maintaining fuel system integrity under various operating conditions.

In order to provide quality valve assembly to the consumers, Govt had brought this product under **mandatory certification** so that it cannot be sold, produced or stored without BIS standard mark and license.