



Indian Standard IS 7142 : 1995 – Welded Low Carbon Steel Cylinders for Low Pressure Liquefiable Gases Not Exceeding 5 Litre Water Capacity intended for storage and transportation of low pressure liquefiable gases other than toxic gases of nominal capacity exceeding 500 ml but not exceeding 5 litre water capacity. These cylinder are considered critical for safely storage and transportation of LPG gas and thus safety of user. Cylinder used for storage and transportation of LPG and other toxic gases not covered under the scope of the licence.

The Indian Standard IS 7142 : 1995 defines various critical aspects considered for safety of the cylinders which includes:

- Selection of proper quality of material for various component for manufacturing of cylinders such shell of cylinder, foot ring, fittings other than valve such as handle etc and valve and valve pad/bung of cylinder for its proper and safe operation,
- Design of cylinders for required pressure of LPG gas stored in cylinder while storing and transportation, considering durability of product and safety of users while using these cylinders.
- Manufacturing controls in manufacturing of these cylinders to have structural integrity of cylinder.
- Various testing considered suitable to ensure and certify safety of cylinders, such as wall thickness of cylinder, hydrostatic stretch test and burst test, pneumatic test, tensile test, weld test, water capacity etc.

Cylinders manufactured and tested in accordance with IS 7142 : 1995 will meet quality of cylinders for its various aspects expected by users such structural safety, integrity, durability of the cylinder and safety of users who will use for storage and transportation of LPG gas.