

IS 3196-1: 2013

‘Welded low carbon steel cylinders exceeding 5 litre water capacity for low pressure liquefiable gases Part-1 Cylinders for LPG

LPG cylinders are used for storage and transportation of LPG used for cooking purpose and are commonly seen in household and industries. IS 3196-1: 2013 specifies the requirements for welded low-carbon steel cylinders. This standard is not applicable for reconditioning of used LPG cylinders.

IS 3196-1 ensures that the cylinders are strong, safe, and durable to withstand pressure and safely contain LPG. The key features of the standard include:

1. **Material Quality:** Cylinders must be made from low-carbon steel, which is durable and resistant to corrosion. The body material may be either conforming to IS 6240 or high tensile strength material IS 15914. Quality of valve is ensured in IS 8737.



2. **Design & Construction:** Cylinders should be designed to handle the working pressure of LPG and the construction shall be with sound welding. The cylinders are heat treated to get desired properties. It is hence very crucial to test for strength and leakage tests.

3. **Safety tests:** Cylinders undergo stringent testing for pressure tolerance, durability, and proper sealing to prevent gas leaks.

4. **Markings & Identification:** Cylinders must have clear markings indicating their specifications and manufacturing details for traceability.

The LPG cylinders are tested in batches for some destructive/non-destructive tests and conforming lots are cleared.

In short, this standard ensures that LPG cylinders are reliable, safe, and fit for everyday use in homes and industries.

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