

BUREAU OF INDIAN STANDARDS

DRAFT FOR COMMENTS ONLY

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DRAFT AMENDMENT NO. 3

TO

**IS 8737 : 2017 VALVE FITTINGS FOR USE WITH LIQUEFIED PETROLEUM GAS
(LPG) CYLINDERS FOR MORE THAN 5 LITRE WATER CAPACITY —
SPECIFICATION**

(Second Revision of IS 8737)

ICS 23.060.40; 23.020.30

Gas Cylinders Sectional
Committee, MED 16

Last date for receipt of comments:
27 March 2025

(Page 1, clause 1.1) — Substitute the following for the existing:

‘This standard specifies the basic requirements of material, dimensions and testing of valve fittings for liquefied petroleum gas (LPG) gas cylinders of upto 250 litre water capacity. It covers valves with taper stems only. This standard also covers valves equipped with Anti-Pilferage Device (APD).’

(Page 1, clause 3.1, Terminology) — Substitute the following for the existing:

‘For the purpose of this standard, the following definitions shall apply:

3.1 Valve Body — The major valve component which includes an inlet, an outlet and may include an Anti-Pilferage Device (APD) as an integral part to the valve.’

(Page 2, clause 3.16, Terminology) — Add the following clause at the end:

3.17 Anti-Pilferage Device (APD) — It is a device which limits the withdrawal of liquified LPG from cylinders. The Anti-Pilferage Device (APD) should reset automatically.

3.18 Anti-Pilferage Self Closing Valve (APSCV) — It is a self closing valve having added feature of Anti-Pilferage Device (APD) in it.’

(Page 9, clause 8.3.3) — Add the following clause at the end:

8.3.4 Inclination Test

This test is applicable to valves equipped with Anti-Pilferage Device (APD) only.

The assembled valve shall be firmly screwed into a cylinder. Cylinder shall then be filled with water to its 80 percent water capacity and then pressurized to 7 kgf/cm² pressure with air. Cylinder shall be mounted on the fixture firmly. The fixture should be able to rotate the cylinder to 45°, 90° and 180° from its original vertical axis. The valve shall be kept in open position for the duration of the test. Now the cylinder shall be rotated to above three angles and observed for leakage of water. The rate of leakage of water, if any, shall be as agreed between the purchaser and manufacturer subject to a minimum of 4 mm³/s and maximum of 40 mm³/s.

After the test, gently keep the cylinder in up-right position, The Anti-Pilferage Device (APD) shall reset, and the valve shall come in normal operating position within 15 s without applying any external force. Air should flow out of the valve when the valve is put in open position.'

(Page 10, clause 9.5) — Add the following clause at the end:

'9.6 Vibration Test

This test is applicable to valves equipped with Anti-Pilferage Device (APD) only.

9.6.1 Procedure — One valve shall be vibrated for 2 h in a test apparatus at 17 Hz with amplitude of 1.5 mm in each of the three axes (90 degree to each other).

9.6.2 Requirement — On completion of the 6 h vibration, the valve shall comply with the requirement of pneumatic test as per **8.3.**'

(Page 10, clause 10.1) — Substitute the following for the existing:

'10.1 Each valve shall be permanently marked with the following information:

- a) Quarter and year of manufacture;
- b) Manufacturer's identification mark;
- c) Number of this standard;
- d) Maximum working pressure, in MPa; and
- e) APV shall be marked [in case of Anti-Pilferage Self Closing Valve (APSCV)];'