

(PREVIEW)

IS 3224: 2002

(Reaffirmed 2002)

Indian Standard

**VALVE FITTINGS FOR COMPRESSED GAS
CYLINDERS EXCLUDING LIQUEFIED
PETROLEUM
GAS (LPG) CYLINDERS – SPECIFICATION
(Third Revision)**

1 SCOPE

1.1 This standard covers the requirements for design, materials manufacture and testing of new valve fittings for use with refillable aluminum and steel cylinders for compressed gases (permanent and high and low pressure liquefiable and dissolve gases) other than liquefied petroleum gas (LPG) for refillable aluminum and steel cylinders. The standard also covers valve fittings for compressed natural gas cylinders for automotive use.

1.2 This standard gives the details of the dimensions of inlet taper threads and outlet of the valves so as to ensure interchangeability. Detailed dimensions of the internals and construction of the valves is not given in this standard. Such details shall be as agreed to between the purchaser and the manufacturer

1.3 Valve fittings for use with breathing apparatus are covered in IS 7302. Yoke type valve connections for small medical gas cylinders are covered in IS 3745. Valve fittings for small Freon cylinders are covered in IS 12300.

1.4 Valve fittings covered by this standard may also be fitted to cylinders of 5 litre or more water capacity, used with breathing apparatus or with anesthetic apparatus.

NOTE-Gas cylinders of 5 liter or more water capacity fitted with valve fittings conforming to this standard and used for medical or hospital services shall bear a label showing name of the gas contained in the cylinder. The cylinder shall be painted externally in the colors specified in the *Gas Cylinder Rules*, 1981 of the Government of India, as amended from time to time. The name or chemical symbol of the gas contained in the cylinder shall be stamped on the cylinder valve. When valve fittings conforming to this standard are fitted to gas cylinders used for medical or hospital service, the valve fitting shall be externally bright chrome plated. (Gases used for such applications may be Oxygen, Nitrous oxide, Carbon-dioxide, Ethylene, Helium Oxygen/Carbon dioxide Mixtures, Air, Oxygen/Helium mixtures etc.

2 REFERENCES

2.1 The Indian Standards listed in Annex A are necessary adjuncts to this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated in Annex A