

*Indian Standard*  
**ROAD VEHICLES — COMPRESSED NATURAL GAS  
(CNG) FUEL SYSTEM COMPONENTS — CNG HIGH  
PRESSURE FUEL LINE (RIGID) WITH END  
CONNECTIONS [HAVING PRESSURE EXCEEDING  
2.15 MPa (21.5 BAR)]**

## 1 SCOPE

**1.1** This standard specifies definitions, test methods and requirements of CNG high pressure fuel line (Rigid) with end connections having pressure exceeding 2.15 MPa (21.5 bar), of CNG on board fuel system component intended for use on motor vehicles as defined in IS 14272 (Part 1), two wheelers and construction equipment vehicles (CEV).

**1.1.1** This standard is applicable to CNG fuel system components intended to use on vehicles using compressed natural gas (mono-fuel or bi-fuel applications).

**1.1.2** It is not applicable to the following:

- a) Liquefied natural gas (LNG) fuel system components located upstream of, and including, the vapourizer;
- b) Fuel containers;
- c) Stationary gas engines; and
- d) CNG fuel systems components for the propulsion of marine craft.

**1.1.3** This standard is based upon a service pressure of compressed natural gas as a fuel at 20 MPa (200 bar) settled at 15°C. Other service pressures could be accommodated by adjusting the pressure by the appropriate factor (ratio). For example, a 25 MPa (250 bar) service pressure system will require pressures to be multiplied by 1.25. All references to pressure are to be considered gauge pressures unless otherwise specified.

## 2 REFERENCES

The following standards contain provisions, which through reference in this text, constitute provisions of 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 below:

<i>IS No.</i>	<i>Title</i>
9000 (Part 11) : 1983	Basic environmental testing procedures for electronic and electrical items : Part 11 Salt mistest
14272 (Part 1) : 1995	Automotive vehicles — Types —Terminology: Part 1 Three and four wheelers
15710 : 2006	Road vehicles — Compressed natural gas (CNG) fuel system components — General requirements and definitions