

ISO 15501-1:2025-12 (E)

Road vehicles - Compressed natural gas (CNG) fuel systems - Part 1: Safety requirements

| Contents | | Page |
|---|--|-------------|
| Foreword | | iv |
| Introduction | | v |
| 1 Scope | | 1 |
| 2 Normative references | | 1 |
| 3 Terms and definitions | | 2 |
| 4 Requirements | | 4 |
| 4.1 Design | | 4 |
| 4.1.1 General | | 4 |
| 4.1.2 Components | | 5 |
| 4.2 Refuelling connection | | 7 |
| 4.2.1 General | | 7 |
| 4.2.2 Receptacle location | | 7 |
| 4.2.3 Receptacle mounting | | 7 |
| 4.2.4 Minimum receptacle clearance | | 7 |
| 4.3 Leakage control | | 8 |
| 4.4 Mounting of the cylinders | | 9 |
| 4.5 Heat protection | | 10 |
| 4.6 Minimizing risk of gas ignition | | 10 |
| 4.7 Venting system | | 10 |
| 4.7.1 General | | 10 |
| 4.7.2 Ventilation lines for PRDs and PRVs | | 11 |
| 4.7.3 Vent line closures | | 11 |
| 4.8 Gas temperature sensor | | 11 |
| 5 Marking | | 11 |
| Annex A (informative) Technical solutions to functional requirements | | 12 |
| Annex B (informative) Compressed natural gas (CNG) on-board fuel systems | | 13 |
| Bibliography | | 15 |