



RDW

Vehicle Technology Division

THE NETHERLANDS  
(N E D E R L A N D)



COMMUNICATION

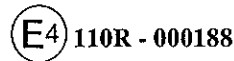
Concerning <sup>(1)</sup>: APPROVAL GRANTED  
~~APPROVAL EXTENDED~~  
~~APPROVAL REFUSED~~  
~~APPROVAL WITHDRAWN~~  
~~PRODUCTION DEFINITELY DISCONTINUED~~

of a type of CNG component pursuant to Regulation No. 110

Approval No.: E4-110R-000188


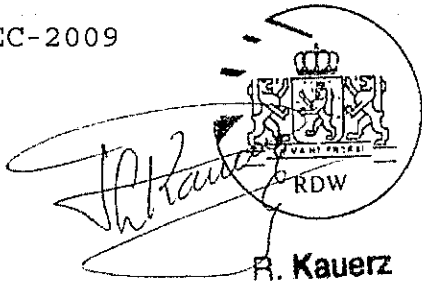
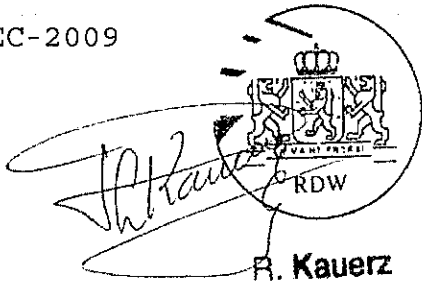
Extension No.: 00

Approval mark:



1. CNG component considered: <sup>(1)</sup>
- Container(s) or cylinder(s)
  - Pressure indicator
  - Pressure relief valve
  - Automatic valve(s)
  - Excess flow valve
  - Gas tight housing
  - Pressure regulator(s)
  - Non return valve(s)
  - Pressure relief device
  - Manual valve
  - Flexible fuel lines
  - Filling unit or receptacle
  - Gas injector(s)
  - Gas flow adjuster
  - Gas/air mixer
  - Electronic control unit
  - Pressure and temperature sensor(s)
  - CNG filter(s)



2. Trade name or mark : 
3. Manufacturer's name and address : Yuyao CNG Part Co., Ltd.  
No.57 Chenjia, Yongfeng Village, Fengshan Street,  
Yuyao City, Zhejiang, China
4. If applicable, name and address of manufacturer's representative : Not applicable
5. Submitted for approval on : October 17, 2009
6. Technical service responsible for conducting approval tests : TÜV Rheinland Kraftfahrt GmbH  
Technologiezentrum Verkehrssicherheit  
Am Grauen Stein  
D-51105 Köln
7. Date of report issued by that service : November 30, 2009
8. No. of report issued by that service : 85-R110-1233/09
9. Approval : granted/~~refused~~/~~extended~~/~~withdrawn~~<sup>(1)</sup>
10. Reason(s) of extension (if applicable) : not applicable
11. Place : Zoetermeer
12. Date : 24-DEC-2009
13. Signature :   
  
R. Kauerz
14. The document filed with the application or extension of approval can be obtained upon request.

<sup>(1)</sup> Strike out what does not apply.

## ADDEMDUM

1. Additional information concerning the type-approval of a type of CNG components pursuant to Regulation No. 110
- 1.1. Container(s) or cylinder(s)
- 1.1.1. Dimensions : Not applicable
- 1.1.2. Material : Not applicable
- 1.2. Pressure indicator
- 1.2.1. Working pressure(s) : 20 MPa
- 1.2.3. Material : Steel, Brass
- 1.3. Pressure relief valve (discharge valve)
- 1.3.1. Working pressure(s) : Not applicable
- 1.3.2. Material : Not applicable
- 1.4. Automatic valve(s)
- 1.4.1. Working pressure(s) : Not applicable
- 1.4.2. Material : Not applicable
- 1.5. Excess flow valve
- 1.5.1. Working pressure(s) : Not applicable
- 1.5.2. Material : Not applicable
- 1.6. Gas-tight housing
- 1.6.1. Working pressure(s) : Not applicable
- 1.6.2. Material : Not applicable
- 1.7. Pressure regulator(s)
- 1.7.1. Working pressure(s) : Not applicable
- 1.7.2. Material : Not applicable
- 1.8. Non-return valve(s) or non-return valve(s)
- 1.8.1. Working pressure(s) : Not applicable
- 1.8.2. Material : Not applicable
- 1.9. Pressure relief device (temperature triggered)
- 1.9.1. Working pressure(s) : Not applicable
- 1.9.2. Material : Not applicable



|         |  |                  |
|---------|--|------------------|
| 1.10.   | Manual valve                           |                  |
| 1.10.1. | Working pressure(s)                    | : Not applicable |
| 1.10.2. | Material                               | : Not applicable |
| 1.11.   | Flexible fuel lines                    |                  |
| 1.11.1. | Working pressure(s)                    | : Not applicable |
| 1.11.2. | Material                               | : Not applicable |
| 1.12.   | Filling unit or receptacle             |                  |
| 1.12.1. | Working pressure(s)                    | : Not applicable |
| 1.12.2. | Material                               | : Not applicable |
| 1.13.   | Gas injector(s)                        |                  |
| 1.13.1. | Working pressure(s)                    | : Not applicable |
| 1.13.2. | Material                               | : Not applicable |
| 1.14.   | Gas flow adjuster                      |                  |
| 1.14.1. | Working pressure(s)                    | : Not applicable |
| 1.14.2. | Material                               | : Not applicable |
| 1.15.   | Gas/air mixer                          |                  |
| 1.15.1. | Working pressure(s)                    | : Not applicable |
| 1.15.2. | Material                               | : Not applicable |
| 1.16.   | Electronic control unit (CNG-fuelling) |                  |
| 1.16.1. | Basic software principles              | : Not applicable |
| 1.17.   | Pressure and temperature sensor(s)     |                  |
| 1.17.1. | Working pressure(s)                    | : Not applicable |
| 1.17.2. | Material                               | : Not applicable |
| 1.18.   | CNG filter(s)                          |                  |
| 1.18.1. | Working pressure(s)                    | : Not applicable |
| 1.18.2. | Material                               | : Not applicable |



**INFORMATION DOCUMENT NO. CHANGNENG-R110-CNGauge B-01**

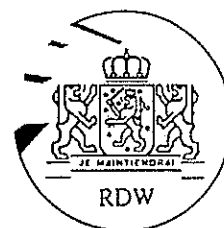
**UNIFORM PROVISIONS CONCERNING THE APPROVAL OF:**

**I. SPECIFIC COMPONENTS OF MOTOR VEHICLES USING COMPRESSED NATURAL GAS  
(CNG) IN THEIR PROPULSION SYSTEM;**

**ECE Regulation No. 110**

**Component Type : B201B, CNG201B, CNG 201D**

**This information document consists of page 1 to 4 with 6 enclosures**



|  |        |
|--|--------|
| Title: PARTIAL MODEL INFORMATION DOCUMENT NO.CHANGNENG-R110-CNGauge B-01 | Page 2 |
| Type: B201B, CNG201B, CNG 201D   |        |

### ESSENTIAL CHARACTERISTICS OF THE CNG COMPONENT

|                |  |  |
|----------------|--|--|
| 0.             | General information  |  |
| 0.1.           | Trade name or mark   | : <b>CNGauge</b>   |
| 0.2.           | Manufacturer's name and address                                  | : Yuyao CNG Part Co., Ltd.<br>No.57 Chenjia, Yongfeng Village, Fengshan Street,<br>Yuyao City, Zhejiang, China |
| 0.3.           | If applicable, name and address of manufacturer's representative | : n.a.   |
| 1.2.4.5.1.     | System description   | : <del>yes</del> /no <sup>1)</sup>   |
| 1.2.4.5.2.     | Pressure regulator(s)  | : <del>yes</del> /no <sup>1)</sup>   |
| 1.2.4.5.3.     | Gas/air mixer  | : <del>yes</del> /no <sup>1)</sup>   |
| 1.2.4.5.4.     | Gas flow adjuster  | : <del>yes</del> /no <sup>1)</sup>   |
| 1.2.4.5.5.     | Gas injector(s)  | : <del>yes</del> /no <sup>1)</sup>   |
| 1.2.4.5.6.     | Electronic Control Unit (CNG-fuelling)                           | : <del>yes</del> /no <sup>1)</sup>   |
| 1.2.4.5.7.     | CNG container(s) or cylinder(s)                                  | : <del>yes</del> /no <sup>1)</sup>   |
| 1.2.4.5.8.     | CNG container accessories  | <del>yes</del> /no <sup>1)</sup>   |
| 1.2.4.5.8.1.   | Pressure indicator   | : <del>yes</del> /no <sup>1)</sup>   |
| 1.2.4.5.8.1.1. | Make(s)  | : <b>CNGauge</b>   |
| 1.2.4.5.8.1.2. | Type(s)  | : B201B, CNG201B, CNG 201D   |
| 1.2.4.5.8.1.3. | Operating principle  | : <del>float</del> /other <sup>1)</sup><br>description: Pointer-sensing type                                   |
| 1.2.4.5.8.1.4. | Working pressure(s) <sup>2)</sup>                                | : 20 Mpa   |
| 1.2.4.5.8.1.5. | Material   | : Steel, brass   |
| 1.2.4.5.8.1.6. | Operating temperatures <sup>2)</sup>                             | : -40°C~ 105°C   |
| 1.2.4.5.9.     | Pressure relief device (temperature triggered)                   | : <del>yes</del> /no <sup>1)</sup>   |
| 1.2.4.5.10.    | Filling unit or receptacle                                       | : <del>yes</del> /no <sup>1)</sup>   |
| 1.2.4.5.11.    | Flexible fuel lines  | : <del>yes</del> /no <sup>1)</sup>   |
| 1.2.4.5.13.    | CNG filter(s)  | : <del>yes</del> /no <sup>1)</sup>   |
| 1.2.4.5.14.    | Non-return valve(s)  | : <del>yes</del> /no <sup>1)</sup>   |
| 1.2.4.5.15.    | Connection to CNG system for heating system                      | : <del>yes</del> /no <sup>1)</sup>   |
| 1.2.5.         | Cooling system   | : liquid/ <del>air</del> <sup>1)</sup>   |
| 1.2.5.1.       | System description/drawings with regard to the CNG system        | : connect to the engine cooling system in order to avoid the regulator from icing                              |



<sup>1)</sup>: Strike out what does not apply.

<sup>2)</sup>: Specify the tolerance.

|  |        |
|--|--------|
| Title: PARTIAL MODEL INFORMATION DOCUMENT NO.CHANGNENG-R110-CNGauge B-01 | Page 3 |
| Type: B201B, CNG201B, CNG 201D   |        |

List of attachments

| Annex | Page | Subject                  | Drawing No. |
|-------|------|--------------------------|-------------|
| A     | 1    | Overview of B201B        | 01          |
| B     | 1    | Overview of CNG201B      | 02          |
| C     | 1    | Overview of CNG201D      | 03          |
| D     | 1    | B201B Assembly drawing   | 04          |
| E     | 1    | CNG201B Assembly drawing | 05          |
| F     | 1    | CNG201D Assembly drawing | 06          |

Zhejiang / October 17, 2009

