

Documents regarding Approval of

CNG Receptacle of class 0

Of BMT Co. Ltd. Make

Approval number: **E4-110R-000310-00**

Report No: **IN110-A0-120037 Dated 16-July-2012**

Name of technical service

TÜV NORD Mobilität GmbH & Co. KG

Institut für Fahrzeugtechnik und

Mobilität

Adlerstr. 7

D-45307 Essen

CONTENTS

Sr. No.	Main Documents	Enclosures	Appendixes/ enclosures	Page Nos.
1	Communication Document	E4-110R-000310-00	--	1-4 of 28
2	Attachment 01	Information Document and Drawings.		5-10 of 28
3	Brief report	IN110-A0-120037 Dated 16-July-2012		11-15 of 28
4	Enclosure 01	Information Document and Drawings.		16-21 of 28
5	Enclosure 03	Technical Test Report		21-27 of 28



RDW

Vehicle Technology Division

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



COMMUNICATION

Concerning ⁽¹⁾:

- approval granted
- ~~- approval extended~~
- ~~- approval refused~~
- ~~- approval withdrawn~~
- ~~- production definitely discontinued~~

of a type of CNG component pursuant to Regulation number 110.

Approval number: E4-110R-000310

Extension number: 00

1. CNG component considered:

- Container(s) or cylinder(s) ⁽⁴⁾
- 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

:  **SUPERLOK T&S VALVES**
Receptacle
SRCT Series



P.O. Box 777
2700 AT Zoetermeer
The Netherlands

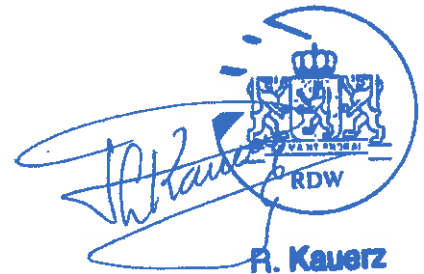
Tel. + 31 (0)79 345 81 43
Fax + 31 (0)79 345 80 43
www.rdw.nl

Vehicle Approval and Information

Approval number: E4-110R-000310

Extension number: 00

- Manufacturer's name and address : BMT CO., LTD
21-1, Bukjeong-dong, Yangsan-si,
Gyeongsangnam-do,
626-110 S.Korea
4. If applicable, name and address of manufacturer's representative : NA
5. Submitted for approval on : December'2011
6. Technical service responsible for conducting approval tests : TÜV NORD Mobilität GmbH & Co. KG
Institut für Fahrzeugtechnik und Mobilität
Adlerstr. 7
D-45307 Essen
7. Date of report issued by that service : 16-July-2012
8. Number of report issued by that service : IN110-A0-120037
9. Approval : granted/~~refused/extended/withdrawn~~⁽¹⁾
10. Reason(s) of extension (if applicable) : NA
11. Place : ZOETERMEER
12. Date : 06-NOV-2012
13. Signature :
14. The documents filed with the application or extension of approval can be obtained upon request.



⁽¹⁾ Strike out what does not apply.

ADDENDUM

1. Additional information concerning the type-approval of a type of CNG components pursuant to Regulation number 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) ⁽²⁾ : Not Applicable
 - 1.2.2. Material : Not Applicable
 - 1.3. Pressure relief valve (discharge valve)
 - 1.3.1. Working pressure(s) ⁽²⁾ : Not Applicable
 - 1.3.2. Material : Not Applicable
 - 1.4. Automatic valve(s)
 - 1.4.1. Working pressure(s) ⁽²⁾ : Not Applicable
 - 1.4.2. Material : Not Applicable
 - 1.5. Excess flow valve
 - 1.5.1. Working pressure(s) ⁽²⁾ : Not Applicable
 - 1.5.2. Material : Not Applicable
 - 1.6. Gas-tight housing
 - 1.6.1. Working pressure(s) ⁽²⁾ : Not Applicable
 - 1.6.2. Material : Not Applicable
 - 1.7. Pressure regulator(s)
 - 1.7.1. Working pressure(s) ⁽²⁾ : Not Applicable
 - 1.7.2. Material : Not Applicable
 - 1.8. Check valve(s) or non-return valve(s)
 - 1.8.1. Working pressure(s) ⁽²⁾ : Not Applicable
 - 1.8.2. Material : Not Applicable
 - 1.9. Pressure relief device (temperature triggered)
 - 1.9.1. Working pressure(s) ⁽²⁾ : Not Applicable
 - 1.9.2. Material : Not Applicable
 - 1.10. Manual valve
 - 1.10.1. Working pressure(s) ⁽²⁾ : Not Applicable
 - 1.10.2. Material : Not Applicable
 - 1.11. Flexible fuel lines
 - 1.11.1. Working pressure(s) ⁽²⁾ : Not Applicable
 - 1.11.2. Material : Not Applicable
 - 1.12. Filling unit or receptacle
 - 1.12.1. Working pressure(s) ⁽²⁾ : 250 bar
 - 1.12.2. Material : 316 Stainless steel



Approval number: E4-110R-000310

Extension number: 00

- | | | |
|---------|--|------------------|
| 1.13. | Gas injector(s) | |
| 1.13.1. | Working pressure(s) ⁽²⁾ | : Not Applicable |
| 1.13.2. | Material | : Not Applicable |
| 1.14. | Gas flow adjuster | |
| 1.14.1. | Working pressure(s) ⁽²⁾ | : Not Applicable |
| 1.14.2. | Material | : Not Applicable |
| 1.15. | Gas/air mixer | |
| 1.15.1. | Working pressure(s) ⁽²⁾ | : 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) ⁽²⁾ | : Not Applicable |
| 1.17.2. | Material | : Not Applicable |
| 1.18. | CNG filter(s) | |
| 1.18.1. | Working pressure(s) ⁽²⁾ | : Not Applicable |
| 1.18.2. | Material | : Not Applicable |

⁽²⁾ Specify the tolerance



 **BMT CO., LTD**

21-1, Bukjeong-dong, Yangsan-si, Gyeongsangnam-do, 626-110 S.Korea

Tel: 82-55-783-1000 Fax: 82-55-783-1110


<http://www.superlok.com>

PAGE 1 OF 6

This is for Type Approval of ECE Regulation 110 (CNG) for Specific Components of Vehicles

INFORMATION DOCUMENT No : BMT-CNG-120717-04

Essential Characteristics of the CNG Component

- 1.1 Trade Name or Mark :  SUPERLOK T&S VALVES
- 1.2 Maker name and Address: BMT CO., LTD
21-1, Bukjeong-dong, Yangsan-si, Gyeongsangnam-do, 626-110 South Korea
- 1.3 Type/General commercial description:
SRCT SERIESE / RECEPTACLE
- 1.4 Working Pressure(s) :

Valve Name	Working Pressure for ECE R110 TYPE
Receptacle	250 bar

- 1.5 Description and Drawings: See attached document
- 1.6 Material: 316 Stainless steel
- 1.7 Operating temperatures: -40 °C to 120 °C

Valve Name	Temperature rating
Receptacle	-40 °C to 120 °C

- 1.8 Remarks: Filling Unit or Receptacle



Vehicle / Component Model : RECEPTACLE (SRCT Series)
 Information Document No. : BMT-CNG-120717-04
 Date : 01-12-2011
 Description : CNG Component approval as per ECE R110
 Attachment 01 to Approval No. : E4-110R-000310