

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

Concerning ⁽¹⁾:

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- ~~approval withdrawn~~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

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


Approval number: E4-110R-020442

Extension number: 02

1. CNG/LNG component considered:

- ~~Container(s) or cylinder(s)~~⁽⁺⁾
- ~~Tank(s) or vessel(s)~~⁽¹⁾
- ~~Pressure indicator~~⁽⁺⁾
- ~~Pressure relief valve~~⁽⁺⁾
- ~~Automatic valve(s)~~⁽⁺⁾
- ~~Excess flow valve~~⁽⁺⁾
- ~~Gas tight housing~~⁽⁺⁾
- ~~Pressure regulator(s)~~⁽⁺⁾
- ~~Non return valve(s) or check valve(s)~~⁽⁺⁾
- ~~Pressure relief device (PRD)(temperature triggered)~~⁽⁺⁾
- ~~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)~~⁽⁺⁾
- ~~PRD (pressure triggered)~~⁽⁺⁾
- ~~Fuel rail~~⁽⁺⁾
- ~~Heat exchanger(s)/vaporizer(s)~~⁽⁺⁾
- ~~Natural gas detector(s)~~⁽⁺⁾



- LNG filling receptacle(s)⁽⁺⁾
 - LNG pressure control regulator(s)⁽⁺⁾
 - LNG pressure and/or temperature sensor(s)⁽⁺⁾
 - LNG manual valve(s)⁽⁺⁾
 - LNG automatic valve(s)⁽⁺⁾
 - LNG non return valve(s)⁽⁺⁾
 - LNG pressure relief valve(s)⁽⁺⁾
 - LNG excess flow valve(s)⁽⁺⁾
 - LNG fuel pump(s)⁽⁺⁾
 -
2. Trade name or mark : LNG Tank C10
3. Manufacturer's name and address : Cryoshelter GmbH
Gewerbeparkstraße 91
A-8143 Dobl-Zwaring
Austria
4. If applicable, name and address of manufacturer's representative :
5. Submitted for approval on : October 2017
6. Technical service responsible for conducting approval tests : Kiwa Nederland B.V.
P.O. Box 137
7300 AC Apeldoorn
The Netherlands
7. Date of report issued by that service : 24-11-2017
8. Number of report issued by that service : 150601943_171100380
9. Approval : ~~granted/refused/extended/withdrawn~~⁽¹⁾
10. Reason(s) of extension (if applicable) : The current homologated LNG Tank Type C10 has extended with an alternative pipe version from Ø18 x 1.0mm to Ø18 x 1.5 mm
See enclosed drawing of pipe change.
11. Place : Zoetermeer
12. Date : 27-DEC-2017
13. Signature : 
R.F.R. Clement
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~~/LNG components pursuant to Regulation number 110.
 - 1.1. Natural Gas Storage System
 - 1.1.1. Container(s) or cylinder(s) (for LNG system)
 - 1.1.1.1. Dimensions : Approved outer tank diameters:
528mm MIN O.D. – 792mm MAX O.D.
Approved tank length:
1000mm MIN – 3000mm MAX
 - 1.1.1.2. Material : See bill of material attached to report 150601943
 - 1.1.2. Tank(s) or vessel(s) (for LNG system)
 - 1.1.1.1. Capacity : From 170 litres up to 1100 litres
 - 1.1.1.2. Material : See bill of material attached to report 150601943

Component:	Certificate number:
Automatic valve	E4-110R-000297 ext00
LNG Receptacle	E4-110R-010361 ext00
Vapour shut-off valve	E4-110R-010357 ext00
LNG Fill System QDV	E4-110R-010363 ext00
Pressure Control regulator (Economizer)	E4-110R-010396 ext00
Excess Flow Valve NG303S	E4-110R-010399 ext00
Check valve	E4-110R-010404 ext00
Pressure Relief Valve	E4-110R-010356 ext00
Vaporizer	E4-110R-010443 ext00

 - 1.2. Pressure indicator
 - 1.2.1. Working pressure(s) ⁽²⁾ : ... MPa
 - 1.2.2. Material :
 - 1.3. Pressure relief valve (discharge valve)
 - 1.3.1. Working pressure(s) ⁽²⁾ : ... MPa
 - 1.3.2. Material :
 - 1.4. Automatic valve(s)
 - 1.4.1. Working pressure(s) ⁽²⁾ : ... MPa
 - 1.4.2. Material :
 - 1.5. Excess flow valve
 - 1.5.1. Working pressure(s) ⁽²⁾ : ... MPa
 - 1.5.2. Material :
 - 1.6. Gas-tight housing
 - 1.6.1. Working pressure(s) ⁽²⁾ : ... MPa
 - 1.6.2. Material :
 - 1.7. Pressure regulator(s)
 - 1.7.1. Working pressure(s) ⁽²⁾ : ... MPa
 - 1.7.2. Material :



- 1.8. Non-return valve(s) or check valve(s)
 - 1.8.1. Working pressure(s) ⁽²⁾ : ... MPa
 - 1.8.2. Material :
- 1.9. Pressure relief device (temperature triggered)
 - 1.9.1. Working pressure(s) ⁽²⁾ : ... MPa
 - 1.9.2. Material :
- 1.10. Manual valve
 - 1.10.1. Working pressure(s) ⁽²⁾ : ... MPa
 - 1.10.2. Material :
- 1.11. Flexible fuel lines
 - 1.11.1. Working pressure(s) ⁽²⁾ : ... MPa
 - 1.11.2. Material :
- 1.12. Filling unit or receptacle
 - 1.12.1. Working pressure(s) ⁽²⁾ : ... MPa
 - 1.12.2. Material :
- 1.13. Gas injector(s)
 - 1.13.1. Working pressure(s) ⁽²⁾ : ... MPa
 - 1.13.2. Material :
- 1.14. Gas flow adjuster
 - 1.14.1. Working pressure(s) ⁽²⁾ : ... MPa
 - 1.14.2. Material :
- 1.15. Gas/air mixer
 - 1.15.1. Working pressure(s) ⁽²⁾ : ... MPa
 - 1.15.2. Material :
- 1.16. Electronic control unit
 - 1.16.1. Basic software principles :
- 1.17. Pressure and temperature sensor(s)
 - 1.17.1. Working pressure(s) ⁽²⁾ : ... MPa
 - 1.17.2. Material :
- 1.18. CNG filter(s)
 - 1.18.1. Working pressure(s) ⁽²⁾ : ... MPa
 - 1.18.2. Material :
- 1.19. PRD (pressure triggered)
 - 1.19.1. Working pressure(s) ⁽²⁾ : ... MPa
 - 1.19.2. Material :
- 1.20. Fuel rail(s)
 - 1.20.1. Working pressure(s) ⁽²⁾ : ... MPa
 - 1.20.2. Material :
- 1.21. Heat Exchanger(s)/Vaporizer(s)
 - 1.21.1. Working pressure(s) ⁽²⁾ : ... MPa
 - 1.21.2. Material :



1.22.	Natural gas detector(s)	
1.22.1.	Working pressure(s) ⁽²⁾	: ... MPa
1.22.2.	Material	:
1.23.	LNG filling receptacle(s)	
1.23.1.	Working pressure(s) ⁽²⁾	: ... MPa
1.23.2.	Material	:
1.24.	LNG pressure control regulator(s)	
1.24.1.	Working pressure(s) ⁽²⁾	: ... MPa
1.24.2.	Material	:
1.25.	LNG pressure and/or temperature sensor(s)	
1.25.1.	Working pressure(s) ⁽²⁾	: ... MPa
1.25.2.	Material	:
1.26.	LNG manual valve(s)	
1.26.1.	Working pressure(s) ⁽²⁾	: ... MPa
1.26.2.	Material	:
1.27.	LNG automatic valve(s)	
1.27.1.	Working pressure(s) ⁽²⁾	: ... MPa
1.27.2.	Material	:
1.28.	LNG non-return valve(s)	
1.28.1.	Working pressure(s) ⁽²⁾	: ... MPa
1.28.2.	Material	:
1.29.	LNG pressure relief valve(s)	
1.29.1.	Working pressure(s) ⁽²⁾	: ... MPa
1.29.2.	Material	:
1.30.	LNG excess flow valve(s)	
1.30.1.	Working pressure(s) ⁽²⁾	: ... MPa
1.30.2.	Material	:
1.31.	LNG fuel pump(s)	
1.31.1.	Working pressure(s) ⁽²⁾	: ... MPa
1.31.2.	Material	:

⁽²⁾ Specify the tolerance

