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

E4

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- ~~approval withdrawn~~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*110R05/00*0516*01

1. ~~CNG~~/LNG component considered:

   - ~~Container(s) or cylinder(s)~~ [1]
   - ~~Tank(s) or vessel(s)~~ [1]
   - ~~CNG accumulator(s)~~ [1]
   - ~~Pressure indicator~~ [1]
   - ~~Pressure relief valve~~ [1]
   - ~~Automatic valve(s)~~ [1]
   - ~~Excess flow valve~~ [1]
   - ~~Gas-tight housing~~ [1]
   - ~~Pressure regulator(s)~~ [1]
   - ~~Non-return valve(s) or check valve(s)~~ [1]
   - ~~Pressure relief device (PRD)(temperature triggered)~~ [1]
   - ~~Manual valve~~ [1]
   - ~~Flexible fuel lines~~ [1]
   - ~~Filling unit or receptacle~~ [1]
   - ~~Gas injector(s)~~ [1]
   - ~~CNG Compressor~~ [1]
   - ~~Gas flow adjuster~~ [1]
   - ~~Gas/air mixer~~ [1]
   - ~~Electronic control unit~~ [1]
   - ~~Pressure and temperature sensor(s)~~ [1]
   - ~~CNG filter(s)~~ [1]
   - ~~PRD (pressure triggered)~~ [1]
   - ~~Fuel rail~~ [1]
   - ~~Heat exchanger(s)/vaporizer(s)~~ [1]
   - ~~Natural gas detector(s)~~ [1]

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Type-approval Department

- LNG filling receptacle(s) (1)
- ~~LNG pressure control regulator(s)~~ (1)
- ~~LNG pressure and/or temperature sensor(s)~~ (1)
- ~~LNG manual valve(s)~~ (1)
- ~~LNG automatic valve(s)~~ (1)
- ~~LNG non-return valve(s)~~ (1)
- ~~LNG pressure relief valve(s)~~ (1)
- ~~LNG excess flow valve(s)~~ (1)
- ~~LNG fuel pump(s)~~ (1)
-

2.	Trade name or mark	:	LNG Receptacle MFR5000
3.	Manufacturer's name and address	:	Engineered Controls International LLC 100 RegO Drive 27244 Elon, North Carolina United States of America
4.	If applicable, name and address of manufacturer's representative	:	N.A.
5.	Submitted for approval on	:	17-01-2019
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	:	23-01-2023
8.	Number of report issued by that service	:	180700265_P000277097
9.	Approval	:	~~granted~~/~~refused~~/extended/~~withdrawn~~ (1)
10.	Reason(s) of extension (if applicable)	:	The currently homologated LNG Receptacle MFR5000 is updated to the latest Revision of the ECE Regulation 110
11.	Place	:	Zoetermeer
12.	Date	:	07 February 2023
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~~/LNG components pursuant to Regulation number 110.

1.1. Natural Gas Storage System
1.1.1. Container(s) or cylinder(s) (for CNG system)
1.1.1.1. Dimensions :
1.1.1.2. Material :
1.1.2. Tank(s) or vessel(s) (for LNG system)
1.1.2.1. Capacity :
1.1.2.2. Material :

1.1.3. CNG accumulator
1.1.3.1. Dimensions :
1.1.3.2. Material :
1.1.3.3. Capacity :

1.2. Pressure indicator
1.2.1. Working pressure(s) (2) :
1.2.2. Material :

1.3. Pressure relief valve (discharge valve)
1.3.1. Working pressure(s) (2) :
1.3.2. Material :

1.4. Automatic valve(s)
1.4.1. Working pressure(s) (2) :
1.4.2. Material :

1.5. Excess flow valve
1.5.1. Working pressure(s) (2) :
1.5.2. Material :

1.6. Gas-tight housing
1.6.1. Working pressure(s) (2) :
1.6.2. Material :

1.7. Pressure regulator(s)
1.7.1. Working pressure(s) (2) :
1.7.2. Material :

1.8. Non-return valve(s) or check valve(s)
1.8.1. Working pressure(s) (2) :
1.8.2. Material :

1.9. Pressure relief device (temperature triggered)
1.9.1. Working pressure(s) (2) :
1.9.2. Material :

1.10. Manual valve
1.10.1. Working pressure(s) (2) :
1.10.2. Material :

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1.11.	Flexible fuel lines	
1.11.1.	Working pressure(s) [2]	:
1.11.2.	Material	:
1.12.	Filling unit or receptacle	
1.12.1.	Working pressure(s) [2]	:
1.12.2.	Material	:
1.13.	Gas injector(s)	
1.13.1.	Working pressure(s) [2]	:
1.13.2.	Material	:
1.14.	Gas flow adjuster	
1.14.1.	Working pressure(s) [2]	:
1.14.2.	Material	:
1.15.	Gas/air mixer	
1.15.1.	Working pressure(s) [2]	:
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]	:
1.17.2.	Material	:
1.18.	CNG filter(s)	
1.18.1.	Working pressure(s) [2]	:
1.18.2.	Material	:
1.19.	PRD (pressure triggered)	
1.19.1.	Working pressure(s) [2]	:
1.19.2.	Material	:
1.20.	Fuel rail(s)	
1.20.1.	Working pressure(s) [2]	:
1.20.2.	Material	:
1.21.	Heat Exchanger(s)/Vaporizer(s)	
1.21.1.	Working pressure(s) [2]	:
1.21.2.	Material	:
1.22.	Natural gas detector(s)	
1.22.1.	Working pressure(s) [2]	:
1.22.2.	Material	:
1.23.	LNG filling receptacle(s)	
1.23.1.	Working pressure(s) [2]	: 3.8 MPa (38 Bar)
1.23.2.	Material	: See report 180700265 and its extensions
1.24.	LNG pressure control regulator(s)	
1.24.1.	Working pressure(s) [2]	:
1.24.2.	Material	:

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1.25.	LNG pressure and/or temperature sensor(s)	
1.25.1.	Working pressure(s) [(2)]	:
1.25.2.	Material	:
1.26.	LNG manual valve(s)	
1.26.1.	Working pressure(s) [(2)]	:
1.26.2.	Material	:
1.27.	LNG automatic valve(s)	
1.27.1.	Working pressure(s) [(2)]	:
1.27.2.	Material	:
1.28.	LNG non-return valve(s)	
1.28.1.	Working pressure(s) [(2)]	:
1.28.2.	Material	:
1.29.	LNG pressure relief valve(s)	
1.29.1.	Working pressure(s) [(2)]	:
1.29.2.	Material	:
1.30.	LNG excess flow valve(s)	
1.30.1.	Working pressure(s) [(2)]	:
1.30.2.	Material	:
1.31.	LNG fuel pump(s)	
1.31.1.	Working pressure(s) [(2)]	:
1.31.2.	Material	:
1.32	CNG Compressor	
1.32.1.	Working pressure(s) [(2)]	:
1.32.2.	Material	:

[(2)] Specify the tolerance