

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- ~~approval withdrawn~~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*110R05/00*0357*04

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

- ~~Container(s) or cylinder(s)~~⁽⁺⁾
- ~~Tank(s) or vessel(s)~~⁽⁺⁾
- ~~CNG accumulator(s)~~⁽⁺⁾
- ~~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)~~⁽⁺⁾
- ~~CNG Compressor~~⁽⁺⁾
- ~~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)⁽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⁾~~
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2. Trade name or mark : LNG Shut-Off valve series
Brand name: RegO Products
Macro Technologies
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 : 07-07-2014
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 : 07-02-2023
8. Number of report issued by that service : 126963_P000277080
9. Approval : ~~granted/refused/extended/withdrawn~~⁽¹⁾
10. Reason(s) of extension (if applicable) : The currently homologated LNG Shut-Off valve series is updated to the latest Revision of the ECE Regulation 110
11. Place : Zoetermeer
12. Date : 14 February 2023
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 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 :



- 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⁾ :
 - 1.23.2. Material :
- 1.24. LNG pressure control regulator(s)
 - 1.24.1. Working pressure(s) ⁽²⁾ :
 - 1.24.2. Material :



- 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⁾ : 4.2 MPa (42 Bar)
 - 1.27.2. Material : See report 126963 and its extensions

- 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

