

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- ~~approval withdrawn~~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-010357**Extension number: 02**

1. CNG/LNG component considered:

- ~~Container(s) or cylinder(s)~~⁽⁺⁾
- ~~Tank(s) or vessel(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)~~⁽⁺⁾
- ~~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)⁽¹⁾
 - 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 : Shut-Off Valve series
RegO Products
Engineered Controls International LLC
Macro Technologies LLC
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 :
5. Submitted for approval on : July 2015
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 : May 10th 2016
8. Number of report issued by that service : 126963_150701329
9. Approval : ~~granted/refused/extended/withdrawn~~⁽¹⁾
10. Reason(s) of extension (if applicable) : The current homologated version of the shut-off valve is extended with the series T9454FF, T9450 and T9454G.
The difference between the approved models and the new models is in the end connection variation. Body design and internals are the same as the original submission.



11. Place : Zoetermeer
12. Date : 20-MAY-2016
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)
 - 1.1.1.1. Capacity :
 - 1.1.1.2. Material :
 - 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⁾ : 4.2 MPa (42 bar)
- 1.26.2. Material : See report 126963_150701329

- 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 :

⁽²⁾ Specify the tolerance

