

# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMT0000020**  
Revision No:  
**1**

**This is to certify:****That the Manufacturer****Roth Mions S.A.S.  
Mions, Rhone, France**

is approved for the

**Manufacturing of Seamless Gas Bottles and Pressure Vessels Class I and II**

The approval is granted on condition that

**DNV GL class programme DNVGL-CP-0261 – Manufacture of pressure equipment  
DNV GL class programme DNVGL-CP-0350 – Manufacture of pressed parts and seamless gas  
cylinders**

are complied with in all respect

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules.

Issued at **Høvik** on **2020-11-18**for **DNV GL**This Certificate is valid until **2023-06-30**.DNV GL local station: **France CMC**Approval Engineer: **Jane Lozanov**

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**Zeinab Sharifi  
Head of Section**

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD. This Certificate is subject to terms and conditions overleaf. Any significant change in production facilities and methods may render this Certificate invalid.



Job Id: **263.11-003296-4**  
Certificate No: **AMT000020**  
Revision No: **1**

## Approval basis

### Product categories:

- un-welded pressure equipment of class I & II:
  - seamless gas cylinders/ seamless accumulators according to DNVGL-RU-SHIP Pt.4 Ch.7 and EN 14359.

### Activity categories:

- production of pressure equipment (DNVGL-CP-0261)
- manufacturing of pressed parts and seamless gas bottles (DNVGL-CP-0350)

### Remarks:

The following facilities are not available in the manufacturing place and if required (according to DNV GL Ship Rules Pt.4 Ch.7), then:

- heat treatment shall be performed at an approved heat treatment workshop (as per DNV GL-CP-0351)
- welding activities shall be from an approved facility (as per DNV GL-CP-0352)
- For non-destructive tests pertaining to pressure equipment class I and II, the procedure and requirements stipulated in specific class guidance DNVGL-CG-0051 & DNV GL Pt.4 Ch.7 Sec.7 [4] shall be applied.

Surveyor may decide to visit the sub-contractor as a part of Approval Survey.

## Scope of approval

### Seamless gas cylinders and seamless accumulators

Steel type	Grade <sup>3)</sup>	Manufacturing method <sup>1)</sup>	Delivery condition <sup>2)</sup>	Min. wall thickness [mm]	Max. outer diameter [mm]
Alloy	34CrMo4	HF	QT	8.33	226.2

### Remarks:

- <sup>1)</sup> HF: Hot forming
- <sup>2)</sup> QT: Quenched and tempered
- <sup>3)</sup> Pre-material supplier: Manufacturers approved by DNVGL for the applicable grades of semi-finished products.

## Approval documentation

Approval granted based on the following submitted documentation:

Application for initial approval of pressure equipment manufacturers dated 2020-10-07  
Checklist for renewal of approved manufacturers dated 2020-09-10  
Checklist for initial approval of pressure equipment manufacturer (CP 0261) dated 2020-09-09.

## Certificate Retention Survey

The AoM certificate is valid for three years with no intermediate assessment unless otherwise requested by the Society. Application for renewal should be made not later than three months before the expiry date of the certificate.

Manufacturer shall invite the Society's surveyor for renewal survey in order to revisit the critical manufacturing steps and to verify that the approved conditions are maintained.

During the survey the manufacturer shall provide evidence that the applicable versions of relevant rules, standards and approval programs are applied, and that all requirements given therein are implemented.