

# Certificate

## Conformity of the design

Certificate-No.:

**01 230 170/B-24 6009.02-S**

Revision of Certificate No. 01 230 170/B-24 6009.01-S from 2025-09-17

Applicant:

**Ragasco AS**

**Business Address: Grøndalsvegen 2, 2830 Raufoss**

**Postal Address: P. O. Box 50, 2831 Raufoss  
Norway**

Manufacturer:

see Applicant

It is confirmed that the described type is in compliance with the requirements of the applicable provisions and standards.

Specifications:

ISO 11119-3:2013 and ISO 11119-3:2020

Description of the type:

Fully wrapped fibre reinforced composite gas cylinders with non-load-sharing non-metallic liner (type 4); Intended use for gasses acc. annex 3 to the report; Liner: HDPE, fibers: E-glass, resin: polyester, epoxy-based vinylester, epoxy, boss: brass CW617N; Diameter =  $305 \pm 5$  mm (with outer casing) /  $297 \pm 4$  mm (pressure vessel); Length = 286 up to  $617 \pm 4$  mm (pressure vessel); Capacity = 24.5 L (baseline), 12.5 L, 18.2 L, 20.6 L, 24.5 L, 26.2 L, 27.4 L, 33.5 L; Test pressure PH up to 33 bar(g); Working temperature  $-40/+65$  °C.

Drawing No.:

0113300-000, revision G, change date 2023-11-22

Report-No.:

This approval is based on the results of the type examination report:

01 202 555/B-200020-T from 2023-12-06,

01 202 555/B-200013-T from 2022-10-14,

01 202 555/B-200027-T from 2025-06-04,

01 202 555/B-200028-T from 2025-06-04.

Chemical compatibility:

The chemical compatibility for the gases listed in annex 3 to the type examination report is confirmed.

Validity:

This approval is valid for a period not exceeding 10 years.

End of period: 12/2032

Trier, 2026-02-17

Christof Lentes  
Certifier

Inspection body for transportable pressure equipment



TÜV Rheinland Industrie Service GmbH  
Inspection body for transportable pressure equipment  
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N-034c-E rev.12