

## TYPE EXAMINATION CERTIFICATE

This is to certify that LRQA Verification Limited, an Approved Body under the terms of the Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009, as amended, did undertake a Type Approval on the stated transportable pressure equipment to ensure its conformity with the requirements of the Regulations which apply to it. The equipment identified below was shown to comply.

This certificate is issued to:

**APPLICANT:** Eurotre S.r.l.  
Via A. Volta, 12/13  
42024 Castelnovo di Sotto (RE) – Italy

**PRODUCT DESCRIPTION:** Non refillable Metallic Gas Cylinder

**PRODUCT TYPE:** EU165D100-22

**DESIGN STANDARD:** EN ISO 11118:2015

The attached Schedule details the content of the Technical Documentation and Specified Standards and shall form part of this certificate.

This Certificate is not valid for pressure equipment, the design, ratings or operational parameters of which have been varied from the specimen tested. The manufacturer shall notify LRQA Verification Limited of any modification or changes to the equipment in order to maintain a valid certificate.

Certificate No: 0038/UK/TPER/MLN/230013 ENG

Original Approval: 27 March 2023

Current Certificate: 27 March 2023

Certificate Expiry: 26 March 2033

Approved Body No. 0038

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G. Gaspani D.M. on behalf of LRQA Verification Limited

## CERTIFICATE SCHEDULE 0038/UK/TPER/MLN/230013 ENG

**Equipment data:**

**Product Description:** Non refillable Metallic Gas Cylinder  
**Product Type:** EU165D100-22  
**Maximum Design Pressure:** PW 110 barg @15°C  
 PH 165 barg  
**Capacity:** from 1.1 to 3.3 Litres

The above-mentioned equipment has been reviewed for compliance with the Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009, as amended, ADR 2023 and the following Design Standard(s):

**EN ISO 11118:2015**

**Technical File Contents**

Title	Document Number	Date
Non refillable metallic gas cylinder drawing	EU165D100-22 Rev. 1	09/06/2022
Cylindrical shell D100 drawing	EU165D100-22_T1_001 Rev. 0	09/11/2021
Convex base 1 D100 drawing	EU165D100-22_F1_001 Rev. 1	27/12/2022
Convex base 2 D100 drawing	EU165D100-22_F2_001 Rev. 1	27/12/2022
Shoulder 1 assembly drawing	EU165D100-22_C1_001 sheet 1 Rev. 0	09/11/2021
Valve breaker device drawing	EU165D100-22_C1_001 sheet 1 Rev. 0	09/11/2021
Shoulder drawing	EU165D100-22_C1_001 sheet 3 Rev. 1	27/12/2022
Valve assembly family drawing	VA01_ASSEMBLY Rev. 0	09/11/2021
Drawing with example of marking	EU165D100-22_M1_001	28/12/2022
Specification and requisitions document for shell material	PMA-EU165D100-22-Shell	24/05/2022

**Technical File Contents (con't)**

Mechanical calculation report	Calculation EN ISO 11118:2015 Type U165D100-22 Rev.1	==
Finite elements method analysis report analysis	FEM Analysis Type U165D100-22 Rev.1	==
Breaking system / non-refillable sealing device report	Breaking system report Type U165D100-22 Rev.1	==

**LRQA Reports**

Title	Document Number	Date
Design Appraisal Document	MLN/DAD/TPER/22/485	30.12.2022
Inspection and test certificate	PRJ11100396752/PRT01-22	22.12.2022

Schedule Issue: 01  
 Date of Schedule Issue: 27 March 2023  
 Approved Body No. 0038

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G. Gaspani D.M. on behalf of LRQA Verification Limited

