

Certificate

Supervision of manufacture and initial inspection and test

according to 1.8.7.3 und 1.8.7.4 ADR/RID 2025

Certificate-No.: **01 230 CHN/M-25 0312**

Applicant: **Shanghai ETERNAL FAITH Industry Co., Ltd.**
Room 220, Area A, No.40, Lane 689, LuoFen Road,
Baoshan, Shanghai, P.R. China 201908

Manufacturer: Same as applicant

We hereby certify that the below mentioned type and each equipment meets the requirements of the Dir. 2010/35/EU in compliance with ADR/RID and the referenced standards are fulfilled.

The transportable pressure equipment were provided after the initial inspection with the conformity mark of the Directive, the registered identification number and the registered mark of the Notified Body.

Marking: **∩ 0035 and** 

Specifications: Directive 2010/35/EU, in compliance with ADR/RID 2025 and EN ISO 9809-1:2019

Description of the type approval: Type approval no.: 01 230 644/B-22 2126, End of period: 09/2032.
513 pcs, Refillable seamless steel gas cylinders, Volume 20L, Diameter 203 mm, Test Pressure 300 bar, Working Temperature -50°C /+65°C.

Batch-no.: F25212, F25221, F25222, F25223.
Serial-no.: Details see the report.

Report-No.: This certificate is valid only in accordance with the test reports about the supervision of manufacture and the initial inspection and test: Oct. 14 ~ 18, 2025, report-no.: 01 230 CHN/M-305790-1025-0312.

Shanghai, Nov. 06, 2025


Inspector: ZHAO Botao
Notified body for transportable pressure equipment



TÜV Rheinland Industrie Service GmbH
Am Grauen Stein, 51105 Cologne, Germany
Notified body for transportable pressure equipment (NB 0035)
Competent authority: Zentralstelle der Länder für Sicherheitstechnik (ZLS), Deutschland
Accredited acc. to DIN EN ISO/IEC 17020:2012 (Nr.: D-IS-11052-03-00)

N-036-E rev.12

Certificate

Type approval

for manufacturing of transportable pressure equipment

Certificate-No.:	01 230 644/B-22 2126
Applicant:	Shanghai ETERNAL FAITH Industry Co., Ltd. Room 220, Area A, No.40, Lane 689, LuoFen Road, BaoShan, P.R. China 201908
Manufacturer:	see Applicant
	It is confirmed that the described type is in compliance with the requirements of the directive 2010/35/EU.
Applicable provisions and standards:	Dir. 2010/35/EU, in compliance with ADR/RID 2021 and EN ISO 9809-1:2019
Description of the type:	Refillable seamless steel gas cylinder for compressed and liquefied gases, Volume 13.4 L – 42,0 L, Diameter 203 mm, Working pressure 200 bar, Test pressure 300 bar, Working temperature -50°C / + 65°C
Report-No.:	This approval is based on the results of the type examination report: CHN/B-220061 dated September 02, 2022
Drawing No.:	SEF22/06-00
Chemical compatibility:	The evaluation of the chemical compatibility according to ISO 11114-1:2020 is not part of the type approval
Validity:	This approval is valid for a period not exceeding 10 years. End of period: 09/2032
Halle, 10/10/2022	 on behalf  Dipl.-Ing. Stefan Brandt Notified body for transportable pressure equipment

TPED Declaration of conformity

according to Directive 2010/35/EU

for a transportable pressure equipment

The manufacturer

Shanghai Eternal Faith Industry CO., LTD.

Room 220.Area A,No.40.Lane 689,LuoFen Road,BaoShan,P.R.China 201908

herewith declares, that the transportable pressure equipment

Description:	Seamless steel gas cylinders
Type-, Serial-, Identification-No:	ISO203-34CrMo-00, dated 2020-10-10
[F25212001-F25212012]	(Not include:F25212005,F25212007), 10PCS
[F25221001-F25221163]	(Not include:F25221030,F25221040), 161PCS
[F25222001-F25222163]	(Not include:F25222014,F25222018), 161PCS
[F25223001-F25223183]	(Not include:F25223022,F25223028), 181PCS
Allowable max./min. temperature TS:	-50/+65 °C
Volume V:	20L
Date of manufacturing:	17/10/2025
Test pressure PH:	300 bar
Test fluid:	water



Attachment No: 2
belongs to Test Report No:
M-25 0312

corresponds to the Transportable Pressure Equipment Directive 2010/35/EU.

Applied conformity assessment

Procedures: Type approval + Initial inspection tests

Applied standards and technical

Specifications: EN ISO 9809-1:2019

Other applied EC-Directives: --

Engaged notified bodies:

Surveillance of the QS-System: --ISO9001 Certification number :
01 100 1430568

Examination/inspections/test TUV Rheiniand Cert GmbH Am Grauen Stein .51105 Koin
2023-12-23 to 2026-12-22

During manufacturing: TUV Rheiniand(Shanghia)Co.,Ltd

Certificates which are included

EC-Design Examination Certificate No.: --

EC-Type Examination Certificate No.: 01 230 644/B-22 2126

EC-Certificate of conformity No.: --

Location, Date:

Shanghai,28/10/2025

Physical Test Report of Gas Cylinder

Report No.:SYAH-MP-F25212

1. Gas Cylinder Information

Cylinder number	F25212005	Test standards	ISO9809-1:2019
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2. Experimental condition

Test equipment name	Microcomputer Controlled Electro-hydraulic Servo Universal Testing Machine		
Test equipment number	221216	Test equipment model	WAW-600D
Impact Test equipment number	8029	Impact Test equipment model	JBS-300B

3. Test results

3.1 Tensile test

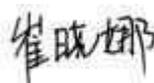
Sample number	Sample width (mm)	^e thickness (mm)	Rm Tensile strength (MPa)	Re Yield strength (MPa)	Original gauge length (mm)	final gauge length after fracture (mm)	Elongation (%)	(%) Re/Rm
212-1	19.9	6.1	863	759	60.0	70.8	18.0	88

3.2 Impact test

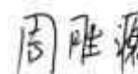
Sample number	(mm) Sample size (mm) transverse	(°C) Test Temperature (°C)	Akv(J/cm2) Shock absorption energy Akv(J/cm2)	Akv (J/cm2) Akv Average value(J/cm2)
212-2	10×55×6.0	-50	125	124
212-3	10×55×6.3		127	
212-4	10×55×6.2		119	

4. Test conclusion: The test results comply with the relevant requirements of ISO9809-1:2019.

Tested by:



Checked by:



Date:

2025.10.18

Hydraulic pressure burst test report

Report No.:SYAH-BT-F25212

1. Gas Cylinder Information

Cylinder number	F25212007	Test standards	ISO9809-1:2019
Nominal work pressure (MPa)	20	Hydraulic test pressure (MPa)	30
Min. design yield pressure (MPa)	38.96	Min. design burst pressure (MPa)	48
Nominal volume (L)	20	Actual volume (L)	20.3

2. Test conditions

Test equipment name	Cylinder burst test machine	Test equipment model	CB100-4
Test equipment number	12-011	Sensor number and range	3721041601893, 0.5 class 0~150MPa
Test environment temperature (°C)	21	Test water temperature (°C)	17

3. Test results

Break length(mm)	324	Break width(mm)	32
Break position	On the cylindrical body	Broken feature	Shearing port
Yield pressure(MPa)	50.6	Burst pressure (MPa)	56.2
Total Boost time (s)	300	Total pressed water(Liter)	1.9
Break feature	After the gas cylinder burst, there were no fragments. The burst opening was on the cylinder body, and the crack at the opening did not extend to the bottle mouth. The main burst opening was a plastic fracture, with a distinct shear lip on the edge of the fracture. There were no obvious metal defects on the fracture surface.		

4. Test conclusion: The test results comply with the relevant requirements of ISO9809-1:2019.

5. See test curve and blasting port on page2.

RECORD OF HYDROSTATIC TESTS ON CYLINDERS

Serial No.	The weight without valve&cap (kg)	Volumetric Capacity (L)	Total expansion (ml)	Permanent expansion (ml)	Percent of Permanent to total expansion (%)	Test Pressure (MPa)	Lot and Batch No.	Tester	Product Ref.	(kg) Weight (Water) (kg)	(s) Holding Time (s)	Temperature (°C)	Time to complete testing	
1	F25212001	27.0	20.2	94.5	2.6	1.8	30.0	F011	Tester	Φ203	47.2	30	17	2025.10.14
2	F25212002	27.0	20.3	98.1	2.1	1.4	30.0	F011	Tester	Φ203	47.3	30	17	2025.10.14
3	F25212003	27.1	20.0	103.2	2.6	1.6	30.0	F011	Tester	Φ203	47.1	30	17	2025.10.14
4	F25212004	27.1	20.1	103.8	2.4	1.5	30.0	F011	Tester	Φ203	47.2	30	17	2025.10.14
5	F25212005													
6	F25212006	27.1	20.2	104.4	2.4	1.5	30.0	F011	Tester	Φ203	47.3	30	17	2025.10.14
7	F25212007													
8	F25212008	27.2	20.1	103.8	2.4	1.5	30.0	F011	Tester	Φ203	47.3	30	17	2025.10.14
9	F25212009	27.1	20.2	108.3	2.3	1.4	30.0	F011	Tester	Φ203	47.3	30	17	2025.10.14
10	F25212010	27.1	20.2	107.3	2.2	1.3	30.0	F011	Tester	Φ203	47.3	30	17	2025.10.14
11	F25212011	27.2	20.1	107.7	2.7	1.6	30.0	F011	Tester	Φ203	47.3	30	17	2025.10.14
12	F25212012	27.0	20.2	107.3	2.5	1.5	30.0	F011	Tester	Φ203	47.2	30	17	2025.10.14



Attachment No: 2
belongs to Test Report No:

M-25 0312

Inspector:

刘怡书

F25212

Original record of valve installation and Leakage test

WFP/R-02-13 0.0

Standard: IS09809-1



Test pressure: 20 Mpa

Test medium: AIR

Document No: 2
Refers to Test Report No.

holding time: 1min

Valve manufacturer:

M-25 0312

Valve size: 08-920-770

Valve lot no.: 250901

Equipment No: QM002

No.	conclusion														
001	√	036		071		106		141		176		211		246	
002	√	037		072		107		142		177		212		247	
003	√	038		073		108		143		178		213		248	
004	√	039		074		109		144		179		214		249	
005	拉	040		075		110		145		180		215		250	
006	√	041		076		111		146		181		216		251	
007	水	042		077		112		147		182		217		252	
008	√	043		078		113		148		183		218		253	
009	√	044		079		114		149		184		219		254	
010	√	045		080		115		150		185		220		255	
011	√	046		081		116		151		186		221		256	
012	√	047		082		117		152		187		222		257	
013		048		083		118		153		188		223		258	
014		049		084		119		154		189		224		259	
015		050		085		120		155		190		225		260	
016		051		086		121		156		191		226		261	
017		052		087		122		157		192		227		262	
018		053		088		123		158		193		228		263	
019		054		089		124		159		194		229		264	
020		055		090		125		160		195		230		265	
021	√	056		091		126		161		196		231		266	
022		057		092		127		162		197		232		267	
023		058		093		128		163		198		233		268	
024		059		094		129		164		199		234		269	
025		060		095		130		165		200		235		270	
026		061		096		131		166		201		236		271	
027		062		097		132		167		202		237		272	
028		063		098		133		168		203		238		273	
029		064		099		134		169		204		239		274	
030		065		100		135		170		205		240		275	
031		066		101		136		171		206		241		276	
032		067		102		137		172		207		242		277	
033		068		103		138		173		208		243		278	
034		069		104		139		174		209		244		279	
035		070		105		140		175		210		245		280	

1. the external leakage thread of the upper valve is 2-5 threads, which is airtight without air leakage, and the conclusion is marked with "√". 2. when cylinder valves from different manufacturers are used, the cylinder segment number shall be clearly noted.

Operator: 张存福

Inspector: 王洁琼

Date: 2025. 10. 18

note: