

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 0079

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 9809-3:2019

Description of the type approval: Type approval no.: 01 230 172/B-24 2180, end of period: 07/2034.
200 pcs, Refillable seamless steel gas cylinders, Volume 7.5L, Diameter 140 mm, Test Pressure 250 bar, Working Temperature -50°C /+65°C.

Batch-no.: 25Ai003.

Report-No.: This certificate is valid only in accordance with the test reports about the supervision of manufacture and the initial inspection and test: Mar. 27 ~ 28, 2025 report no.: 01 230 CHN/M-85119-0325-0079.

Shanghai, Apr. 15, 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



Attachment No: 1
belongs to Test Report No:

M-25 0079

Type approval

for manufacturing of transportable pressure equipment

Certificate-No.: 01 230 172/B-24 2180

Applicant: Shanghai ETERNAL FAITH Industry Co., Ltd.
Room 220, Area A, No.40, Lane 689, LuoFen Road,
BaoShan, Shanghai, 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 2023
and EN ISO 9809-3:2019

Description of
the type: Refillable seamless steel gas cylinder for compressed and
liquefied gases, Volume 3.4 L – 15.0 L, Diameter 140 mm,
Working pressure 150 bar, Test pressure 250 bar,
Working temperature -50°C / + 65°C

Report-No.: This approval is based on the results of the
type examination report:
CHN/B-240040-R dated July 04, 2024

Drawing No.: SEF24/03-00

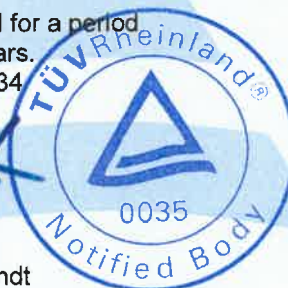
Chemical compatibility: The evaluation of the chemical compatibility according to
ISO 11114-1:2020 is not part of the type approval

Validity: This approval is valid for a period
not exceeding 10 years.
End of period: 07/2034

on behalf

Halle, 26/07/2024

Dipl.-Ing. Stefan Brandt
Notified body for transportable pressure equipment



TÜV Rheinland Industrie Service GmbH
Notified body for transportable pressure equipment (NB 0035)
Am Grauen Stein, 51105 Köln, Germany

MS-0002018 N-034-E rev.11

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:	ISO140-37Mn-00, dated 2024-07-26
[25Ai003001-25Ai003202]	(Not include:25Ai003201,25Ai003202), 200PCS
Allowable max./min. temperature TS:	-50/+65 °C
Volume V:	7.5L
Date of manufacturing:	27/03/2025
Test pressure PH:	250 bar
Test fluid:	water



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 9809-3:2019

Other applied EC-Directives:

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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.: 01 230 172/B-24 2180

EC-Certificate of conformity No.: --

Location, Date:

Shanghai, 14/04/2025

Wang Xing

Signature



Main Technical Requirements

1. Design according to: ISO9809-3: 2019 and EN ISO 9809-3:2019 .
2. Filling contents: compressed gases or liquified gases as per ISO11114-1.
3. Environmental temperature: -50℃ to 65℃.
4. The material is steel alloy, the chemical composition is as follows: (in weight percent) (%)

Chemical composition	C	Mn	Si	S	P	S+P	Cr	Mo	Ni	Cu	V+Nb+Ti+B+Zr
Standard values	0.34-0.40	1.40-1.70	0.10-0.30	≤0.015	≤0.02	≤0.03	≤0.2	≤0.2	≤0.2	≤0.2	≤0.15

5. The Guaranteed Value Of Mechanical Properties After Heat Treatment

Mechanical parameters	Re(N/mm2)	Rg(N/mm2)	A(%)	Hardness values(HB)	akv(-50℃)(J/cm2)
Standard values	≥505	800≥ Rg ≥680	≥20	200-230	minimum≥32 average≥40

6. Heat treatment: Normalized 860±10℃ for 36±2min .

7. The Hydraulic Test Pressure 250bar, working Pressure 150bar.

8. Thread: 17E(EN629-1)、25E(EN629-1)、W28.8(DIN477) and more.

9. In hydraulic burst test, the measured burst pressure shall be: Pb≥411bar and the observed yield pressure shall be: Py≥295bar.

10. Spun-tube cylinder.

Water capacity(L)	3.4(min)	4.0	5.0	6.7	8.0	10.0	13.4	14.0	15.0(max)
Height(H, mm)	324	370	447	569	665	818	1069	1112	1186
Empty weight(W, kg)	5.5	6.1	7.2	8.8	10.4	12.4	16.0	16.5	17.6

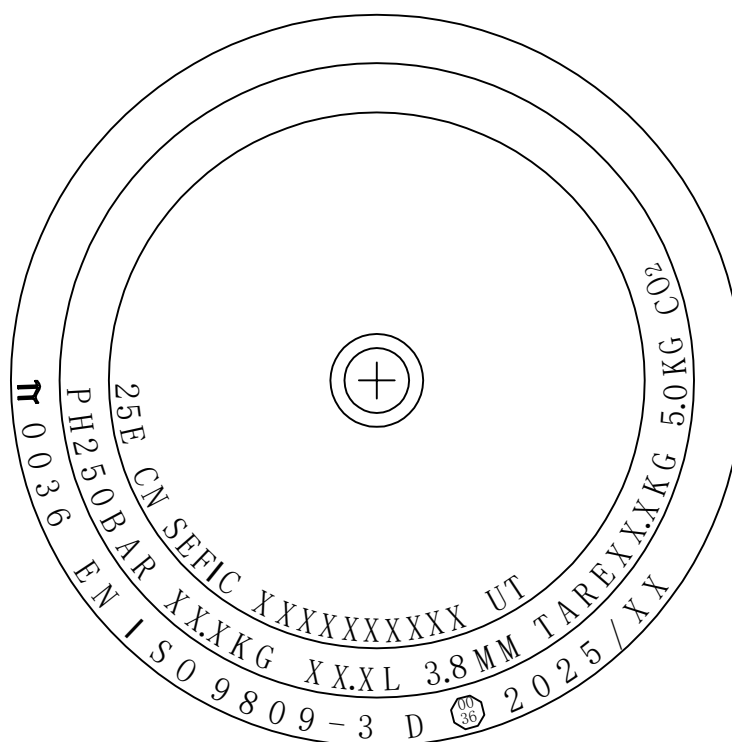
					37Mn			Shanghai Eternal Faith Industry Co., Ltd	
Mark	Pcs	Rev. No.	Signature	Date				Product Name	IS0140-37Mn-00
Design	Jim	Standard	Alice		Pattern marker	Weight	Scale		
Proofread		Approve	Michael				1:3	Drawing No.	SEF24/03-00
Audit									
Technics		Date	24.05.06		Total	Page	The	Page	

PIserial number: SEFIC6018034F

Specification: $\phi 140-7.5-150$

Medium: Carbon dioxide

quantity: 200Item



Technical requirements



Attachment No: 1
Reference Test Report No:
M-25 0079

- 1.The steel stamp marks on the cylinders are arranged as shown in the figure;
2. The steel stamp must be obvious, complete and clear;
3. The weight is the actual measured value, and the volume is the actual measured value.;
4. XXXXXXXX cylinder number;
5. The height of the stamp font is6mm, The stamp depth is0.3-0.5mm;
6. TAREXX. X=Net weight of cylinder+0.54。

					Mark					Shanghai Eternal Faith Industry Co., Ltd						
Mark	Pcs	Rev.No.	Signature	Date												
Design		Jim	Standard	Alice	Pattern marker			Weight		Scale		\$ 140-7.5-150				
Proofread			Approve	Michael	A											
Audit																
Technics			Date	25.03.20	Total Page				The Page							



质量证明书
INSPECTION CERTIFICATE
TS2732037-2028
EN10204 3.1

地址: 中国江苏省江阴市月城镇北环路58号
ADD: 58 Beihuan Road, Yuecheng Town,
Jiangyin, Jiangsu, PRC

JYCR/QR-02-02

1	质保书号 Certificate No.	2503020031	发货日期 Date of shipment	2025/3/2	车号 Truck No.	鲁PAU656	到站 Station Arrived	/
	合同号 P.O. No.	SH2025-01GG-56			规格 Size(mm)	140X3.8	钢级/产品规格等级 Grade	37Mn
	订货单位 Purchaser		产品名称 Product Name	气瓶管用无缝钢管	制造方法 Manufacturing	热轧 无缝	总支数 Total Pieces	157
	收货单位 Consignee				交货状态 Delivery Status	热轧正火Hot-rolled	总长度(米) Total Length(M)	
	产品标准 Product Specification	气瓶管用无缝钢管 GB/T18248-2021	管端形式 End Type	/	最低回火温度 Min Tempering Temperature	/	总重量(吨) Total Weight(Ton)	26.379

2	炉号 HEAT NO.	批号 LOT NO.	数量 Quantity				室温拉伸试验 Room Tem. Tensile Test								冲击试验(J) Impact Test											
			捆 BDL	支数 PCS	吨 T	米数 M	I#	试验 类型 Test Type	试样 尺寸 Size	标距 Gaugo length (mm)	屈服 类型 Yield Type	屈服 Y.S(MPa)	抗拉 T.S(MPa)	伸长率 E.L(%)	屈强比 Y/T(%)	I#	温度 ℃	尺寸 Si ze	吸收功 Absorb Energy Akv J				剪切比% Shear Area			
																			1	2	3	AVG	1	2	3	AVG
25C00069	G2502172-02	1	15	2.26	8-12m	纵向L	条Strip	19.80	50	Rp0.2	533/536	724/732	25/24		纵	-50	55*10*2.5	24/20	25/26	26/25	25/24					
25C00480	G2502489-02	10	138	23.445	12m	纵向L	条Strip	20.30	50	Rp0.2	525/520	737/737	20/20		纵	-50	55*10*2.5	20/20	17/17	17/17	18/18					
25C00069	G2502172-02	1	4	0.674	12m	纵向L	条Strip	19.80	50	Rp0.2	533/536	724/732	25/24		纵	-50	55*10*2.5	24/20	25/26	26/25	25/24					

3	炉号 Heat No.	批号 Lot No.	硬度试验Hardness Test												夹杂物检测 Inclusion Test								品粒度 Grain Size				
			1#	内 Inner				中 Mid				外 Outer				3#	A		B		C		D		DS	最小 Min	3#
				TÜVRheinland®																							
				AVG				AVG				AVG					细 T	粗 H	细 T	粗 H	细 T	粗 H	细 T	粗 H			
25C00069	G2502172-02	横断面 Cross- section	HRC	Attachment No. 2				14.3/14.9	14.9/14.4	14.5/15.1	14.6/14.8					0.5/0.5	0.0/0.0	0.5/0.5	0.0/0.0	0.0/0.0	0.5/0.5	0.5/0.5	0.0/0.0	0.0/0.0			
25C00480	G2502489-02		HRC	belongs to Test Report No.				17.2/17.2	18.8/16.9	18.6/16.9	18.2/17.0					0.5/0.5	0.0/0.0	0.5/0.5	0.0/0.0	0.0/0.0	0.0/0.0	0.5/0.5	0.5/0.5	0.0/0.0			
25C00069	G2502172-02		HRC	M-25 0079				14.3/14.9	14.9/14.4	14.5/15.1	14.6/14.8					0.5/0.5	0.0/0.0	0.5/0.5	0.0/0.0	0.0/0.0	0.5/0.5	0.5/0.5	0.0/0.0	0.0/0.0			

炉号 Heat No.	批号 Lot No.		化学成分(%)Chemical Composition																				其他拉伸试验 Other Tensile Test						
			C	Si	Mn	P	S	Cu	Ni	Cr	Mo	Al	V	Ti	B	Nb	Sb	Bi	As	Sn	Pb	Zr	P+S	V+Ni+Ti+B+Zr	温度 Tem	屈服 Y.S(MPa)	抗拉 T.S(MPa)	伸长率% E.L(%)	屈强比 Y/T
25C00069	G2502172-02	M	0.36	0.23	1.64	0.010	0.004	0.02	0.02	0.07	0.01	0.024	0.00						0.012	0.000	0.001	0.0013	0.014	0.00					
		P	0.36	0.23	1.59	0.011	0.003	0.02	0.02	0.06	0.00	0.027	0.00	0.002	0.0004	0.00	0.001	0.002	0.006	0.001	0.002	0.0013	0.0143	0.01					
		P	0.36	0.23	1.59	0.011	0.003	0.02	0.02	0.06	0.00	0.027	0.00	0.002	0.0004	0.00	0.001	0.002	0.006	0.001	0.002	0.0013	0.0143	0.01					
25C00480	G2502489-02	M	0.38	0.23	1.69	0.013	0.004	0.02	0.01	0.08	0.02	0.030	0.00						0.008	0.000	0.001	0.0013	0.017	0.00					
		P	0.37	0.22	1.57	0.015	0.003	0.01	0.01	0.08	0.01	0.033	0.00	0.002	0.0006	0.00	0.001	0.001	0.006	0.000	0.002	0.0013	0.0186	0.01					
		P	0.37	0.22	1.57	0.015	0.003	0.01	0.01	0.08	0.01	0.033	0.00	0.002	0.0006	0.00	0.001	0.001	0.006	0.000	0.002	0.0013	0.0186	0.01					
25C00069	G2502172-02	M	0.36	0.23	1.64	0.010	0.004	0.02	0.02	0.07	0.01	0.024	0.00						0.012	0.000	0.001	0.0013	0.014	0.00					
		P	0.36	0.23	1.59	0.011	0.003	0.02	0.02	0.06	0.00	0.027	0.00	0.002	0.0004	0.00	0.001	0.002	0.006	0.001	0.002	0.0013	0.0143	0.01					
		P	0.36	0.23	1.59	0.011	0.003	0.02	0.02	0.06	0.00	0.027	0.00	0.002	0.0004	0.00	0.001	0.002	0.006	0.001	0.002	0.0013	0.0143	0.01					

5	外观及尺寸 Visual inspection& Dimensional Testing	水压试验 Hydrostatic Test	无损探伤NDT				低倍 Macrostru cture	高倍 Microstru cture	酸蚀层 Bark	扩口 Flaring	弯曲 Bending	压扁 Flattn ing Test	卷边 Flanging	HIC试验 Test			SSC试验 Test		
			管体Pipe Body		管端End									CSR	CLR	CFR	加膜力 SMYS	方法 Type	时间 Time
			超声波UT	漏磁FLT	超声波UT	磁粉MT	≤2%	≤15%	≤5%										
	合格 Passed		U2/逐支合格(OK)	F4/逐支合格(OK)															

注 释 Not	1、1#-方向 Orientation 2#-试验类型Test Type: 3#-最大差值Max Variation: 2、M=熔炼成分 Melting composition P=成品成分 Product composition: L=纵向Longitudinal; T=横向Transversal; 3、取样位置Sample Position: 头端:Head 尾端:End; 4、有异议来函时请标明炉批号、规格、原因等, 并保留好实物。If you have any objection, please indicate the batch number, specifications, reasons, etc., and keep the material. 5、符合EN10204 3.1. 6、漏磁探伤与超声探伤均为纵横向检查。				申明 Declaring	兹证明本表所列产品依据本标准规定制造和检验, 并符合本标准规范(含增补、附录)及订货技术要求。 This is to certify that the products listed in this table are manufactured and inspected in accordance with the standards and conform to the specifications of this standard(including addendum, errata)and the technical requirements of the order.							
					制单 Prepared By	胡梦婷	检验质量责任人审核 Reviewed By	吕知良	质保工程师批准 Approved By		证书章 Stamp		(共1页) (Total 1 Page)

Chemical composition analysis report

List No: BG.11-05

Report No.: Q/HSCF-BG-25C00480

Quality Certificate No	2503020031	Sample name			Seamless steel pipe			Furnace number		25C00480		
Specifications	Φ 140*3.8	Material			37Mn			Supply		Hot rolling		
Acceptance criteria	GB/T 18248-2021 Seamless steel tubes for gas cylinders、TSG 23-2021 Cylinder safety technology backhaul EN ISO 9809-3: 2019											
Sample number	(%) Element content											
	C	Si	Mn	P	S	S+P	Cr	Ni	Cu	Mo	Co	V+Nb+Ti+B+Zr
1	0.359	0.226	1.64	0.013	0.001	0.014	0.063	0.062	0.026	0.158	0.005	<0.0117
Conclusion:	Qualified  Attachment No: 2 belongs to Test Report No:											
Note:	1、 This report is only responsible for the samples received. 2、 This report shall be deemed invalid upon alteration.											

Attachment No: 2
belongs to Test Report No:

M-25 0079

Tester:

Date: 2025.3.3

Material person:

Date: 2025.3.3

Report on Mechanical
Properties

List No: BG.11-04

Report No: Q/HSJP-BG-25Ai003

1. Product parameters

Product type	ISO140-37Mn-00	Material	37Mn
Heat treatment	Normalizing	Product batch No.	25Ai003
Test Product No.	25Ai003201		

2. Test standard or requirements

Execute standard	EN ISO 9809-3: 2019		
MPa Tensile strength	$680 \leq R_{ma} \leq 800$	MPa Yield Stress	≥ 505
J/cm² Impact test	Average 40, min 32	Elongation %	≥ 20
Ring flattening test	The flatting ring shall remain visually uncracked.		

3. Record of test

No.	Serial NO. Of cylinder	Width (mm)	Thickness (mm)	Yield Stress (MPa)	Tensile Strength (MPa)	Impact Test (-50℃) J/cm²			Elongation %	Ring Flattening Test
1	S1	16	4.2	514	726	85	74	90	24	Good
2	S2	16	4.2	522	732				26	Good

Test result:

EN ISO 9809-3:2019 , .

The test result meets the requirements of standard EN ISO 9809-3:2019

The flatting ring shall remain visually uncracked.



 TÜVRheinland®
Attachment No: 2
belongs to Test Report No:
M-25 0079

4. Conclusion: Qualified

Tester:

王建国

Reviewer:

阮富平

Date: 2025. 3. 27

Hydraulic Burst Test Report of Gas Cylinders

List No.: BG.12-7

Report No.: Q/HSBP-BG-25Ai003

Product Model	IS0140-37Mn-00	Standard	EN ISO 9809-3:2019
Cylinder No.	25Ai003202	Test date	2025.3.27
Material	37Mn	Transplant number	12
Heat Process	Normalizing	Water TEMP.(°C)	17
Normal Pre. (bar)	150	Hydraulic TP(bar)	250
Normal Vol. (L)	7.00	Act. Vol.(L)	7.05
Design Weight(Kg)	10.0	Real Weight(Kg)	10.0
Design Thick(mm)	3.8	Real min Thick(mm)	4.0
Break Len. (mm)	240	Break Wdh. (mm)	37
Break Feature	Plastic fracture	Break Shape	EN ISO 9809-3:2019 Meet the EN ISO 9809-3:2019requirement
Burst pre.(bar)	439	Burst Water.(ml)	1410
Yield pre.(bar)	318	Yield Water.(ml)	--
Yield/Burst(%)	72	Cyl. disonrtion Ratio(%)	18.441

(Anomaly Description): No abnormalities

(Result analysis):

- 1.The actual burst pressure $P_b=439\text{bar}$,The measured burst pressure $P_b=439\text{Bar}$, $P_b=439\text{bar}>411\text{Bar}$, qualified.
- 2.The observed yield pressure $P_y=318\text{bar}$, $P_y\geq 1/F\times P_n=1/0.82\times 250=305\text{Bar}$, $P_y=318\text{bar}>305\text{Bar}$, qualified.
- 3.The cylinder remained in one piece and had no fragment, the main fracture was plastic fracture in the cylindrical portion, qualified.
- 4.Longitudinal without branching, qualified.

Identification result:Meet the EN ISO 9809-1:2019 requirement

(Test Conclusion): Qualified

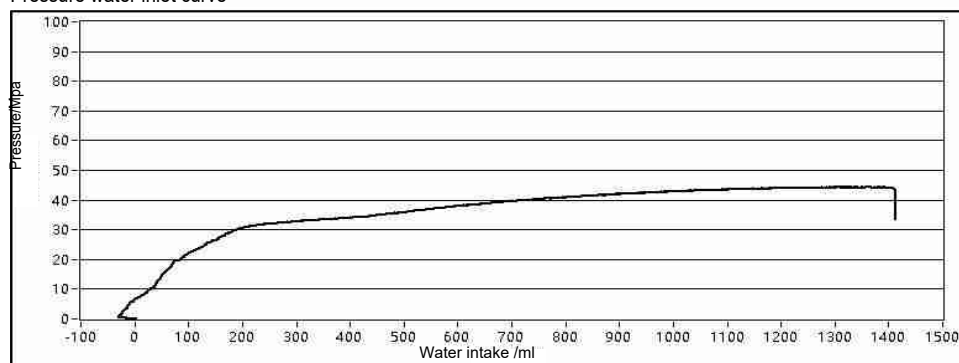
(Test sample picture)

 **TÜVRheinland®**
Attachment No: 2
belongs to Test Report No:
M-25 0079



(Pressure inflow curve)

Pressure water inlet curve



(Tester):

王建国

(Reviewer):

阮留平

Date: 2025.3.27

Product Ref.: ISO140-37Mn-00		Production lot number:			25Ai003		Quantity:		200	Page 1 of 5 pages	
Test date	Serial No.	(kg)Weight t (Water) (kg)	The weight without valve&cap (kg)	Volumetric Capacity (L)	Test Pressure (Bar)	Tempera ture (℃)	(s)Holding Time (s)	Total expansion (ml)	Permanent expansion (ml)	Percent of Permanent to totalexpansi on (%)	Abnormal bottle condition
2025.3.27	25Ai003001	17.5	10.0	7.50	250	10	30	24.3	0.5	2.1	none
2025.3.27	25Ai003002	17.5	10.0	7.50	250	10	30	23.0	0.7	3.0	none
2025.3.27	25Ai003003	17.5	10.0	7.50	250	10	30	24.0	0.9	3.8	none
2025.3.27	25Ai003004	17.5	10.0	7.50	250	10	30	21.4	0.7	3.3	none
2025.3.27	25Ai003005	17.7	10.2	7.50	250	10	30	21.7	0.8	3.7	none
2025.3.27	25Ai003006	17.5	10.0	7.53	250	10	30	21.8	0.9	4.1	none
2025.3.27	25Ai003007	17.5	10.0	7.50	250	10	30	20.9	0.8	3.8	none
2025.3.27	25Ai003008	17.6	10.1	7.50	250	10	30	21.9	0.8	3.7	none
2025.3.27	25Ai003009	17.5	10.0	7.50	250	10	30	24.5	0.6	2.4	none
2025.3.27	25Ai003010	17.5	10.0	7.50	250	10	30	24.5	0.9	3.7	none
2025.3.27	25Ai003011	17.5	10.0	7.54	250	10	30	24.0	1.0	4.2	none
2025.3.27	25Ai003012	17.6	10.1	7.50	250	10	30	21.5	0.9	4.2	none
2025.3.27	25Ai003013	17.5	10.0	7.50	250	10	30	24.8	0.6	2.4	none
2025.3.27	25Ai003014	17.5	10.0	7.50	250	10	30	20.7	0.7	3.2	none
2025.3.27	25Ai003015	17.5	10.0	7.53	250	10	30	20.9	0.4	1.8	none
2025.3.27	25Ai003016	17.5	10.0	7.50	250	10	30	24.3	0.7	2.9	none
2025.3.27	25Ai003017	17.5	10.0	7.50	250	10	30	22.0	0.6	2.7	none
2025.3.27	25Ai003018	17.5	10.0	7.53	250	10	30	20.6	0.5	2.5	none
2025.3.27	25Ai003019	17.7	10.2	7.50	250	10	30	24.8	0.4	1.6	none
2025.3.27	25Ai003020	17.5	10.0	7.50	250	10	30	23.8	1.0	4.2	none
2025.3.27	25Ai003021	17.5	10.0	7.50	250	10	30	22.8	0.5	2.2	none
2025.3.27	25Ai003022	17.5	10.0	7.50	250	10	30	22.4	0.6	2.7	none
2025.3.27	25Ai003023	17.5	10.0	7.50	250	10	30	23.8	1.0	4.2	none
2025.3.27	25Ai003024	17.7	10.2	7.50	250	10	30	21.0	0.5	2.4	none
2025.3.27	25Ai003025	17.5	10.0	7.50	250	10	30	25.3	1.0	4.0	none
2025.3.27	25Ai003026	17.5	10.0	7.50	250	10	30	21.4	0.5	2.3	none
2025.3.27	25Ai003027	17.5	10.0	7.50	250	10	30	21.5	0.6	2.9	none
2025.3.27	25Ai003028	17.5	10.0	7.50	250	10	30	25.2	0.9	3.6	none
2025.3.27	25Ai003029	17.8	10.3	7.50	250	10	30	23.9	0.5	1.9	none
2025.3.27	25Ai003030	17.5	10.0	7.50	250	10	30	25.4	0.6	2.4	none
2025.3.27	25Ai003031	17.5	10.0	7.50	250	10	30	21.6	0.5	2.3	none
2025.3.27	25Ai003032	17.6	10.1	7.50	250	10	30	23.6	0.7	3.0	none
2025.3.27	25Ai003033	17.5	10.0	7.50	250	10	30	20.1	0.4	1.8	none
2025.3.27	25Ai003034	17.5	10.0	7.50	250	10	30	21.0	0.5	2.4	none
2025.3.27	25Ai003035	17.5	10.0	7.54	250	10	30	25.6	0.4	1.6	none
2025.3.27	25Ai003036	17.5	10.0	7.50	250	10	30	20.2	0.9	4.5	none
2025.3.27	25Ai003037	17.6	10.1	7.50	250	10	30	24.4	0.7	2.9	none
2025.3.27	25Ai003038	17.5	10.0	7.50	250	10	30	24.2	0.5	2.1	none
2025.3.27	25Ai003039	17.5	10.0	7.54	250	10	30	23.6	0.7	3.0	none
2025.3.27	25Ai003040	17.7	10.2	7.53	250	10	30	21.7	0.9	4.1	none
2025.3.27	25Ai003041	17.6	10.0	7.56	250	10	30	21.9	0.4	1.7	none
2025.3.27	25Ai003042	17.5	10.0	7.50	250	10	30	23.7	0.8	3.4	none

Product Ref.: ISO140-37Mn-00		Production lot number:			25Ai003		Quantity:		200	Page 2 of 5 pages	
Test date	Serial No.	(kg)Weight (Water) (kg)	The weight without valve&cap (kg)	Volumetric Capacity (L)	Test Pressure (Bar)	Temperature (℃)	(s)Holding Time (s)	Total expansion (ml)	Permanent expansion (ml)	Percent of Permanent to totalexpansion (%)	Abnormal bottle condition
2025.3.27	25Ai003043	17.5	10.0	7.50	250	10	30	22.6	0.7	3.1	none
2025.3.27	25Ai003044	17.7	10.2	7.50	250	10	30	23.5	0.7	3.0	none
2025.3.27	25Ai003045	17.5	10.0	7.50	250	10	30	22.9	0.3	1.2	none
2025.3.27	25Ai003046	17.5	10.0	7.53	250	10	30	20.8	0.8	3.8	none
2025.3.27	25Ai003047	17.5	10.0	7.50	250	10	30	23.9	0.4	1.7	none
2025.3.27	25Ai003048	17.5	10.0	7.50	250	10	30	20.8	0.5	2.4	none
2025.3.27	25Ai003049	17.5	10.0	7.50	250	10	30	21.3	0.9	4.2	none
2025.3.27	25Ai003050	17.5	10.0	7.50	250	10	30	22.8	0.8	3.5	none
2025.3.27	25Ai003051	17.6	10.0	7.56	250	10	30	24.5	0.5	2.0	none
2025.3.27	25Ai003052	17.5	10.0	7.50	250	10	30	24.0	0.6	2.5	none
2025.3.27	25Ai003053	17.8	10.3	7.50	250	10	30	24.1	0.5	2.1	none
2025.3.27	25Ai003054	17.5	10.0	7.50	250	10	30	21.6	0.4	1.9	none
2025.3.27	25Ai003055	17.5	10.0	7.50	250	10	30	24.1	0.4	1.7	none
2025.3.27	25Ai003056	17.7	10.2	7.50	250	10	30	25.7	0.6	2.3	none
2025.3.27	25Ai003057	17.6	10.1	7.50	250	10	30	21.7	0.5	2.3	none
2025.3.27	25Ai003058	17.5	10.0	7.50	250	10	30	20.4	0.6	2.9	none
2025.3.27	25Ai003059	17.8	10.3	7.50	250	10	30	22.6	0.6	2.7	none
2025.3.27	25Ai003060	17.5	10.0	7.54	250	10	30	25.0	0.7	2.8	none
2025.3.27	25Ai003061	17.6	10.1	7.52	250	10	30	21.4	0.7	3.3	none
2025.3.27	25Ai003062	17.7	10.2	7.53	250	10	30	22.8	0.5	2.2	none
2025.3.27	25Ai003063	17.5	10.0	7.50	250	10	30	25.9	0.5	1.9	none
2025.3.27	25Ai003064	17.5	10.0	7.50	250	10	30	20.4	0.6	2.9	none
2025.3.27	25Ai003065	17.5	10.0	7.50	250	10	30	22.5	0.9	4.0	none
2025.3.27	25Ai003066	17.5	10.0	7.54	250	10	30	23.6	0.6	2.5	none
2025.3.27	25Ai003067	17.5	10.0	7.50	250	10	30	22.4	0.4	1.8	none
2025.3.27	25Ai003068	17.5	10.0	7.50	250	10	30	20.8	0.5	2.2	none
2025.3.27	25Ai003069	17.5	10.0	7.53	250	10	30	24.4	0.5	2.0	none
2025.3.27	25Ai003070	17.6	10.0	7.56	250	10	30	22.5	0.4	1.8	none
2025.3.27	25Ai003071	17.5	10.0	7.50	250	10	30	20.0	0.9	4.5	none
2025.3.27	25Ai003072	17.5	10.0	7.50	250	10	30	22.2	0.9	4.1	none
2025.3.27	25Ai003073	17.5	10.0	7.50	250	10	30	24.8	0.8	3.2	none
2025.3.27	25Ai003074	17.5	10.0	7.50	250	10	30	21.0	0.6	2.9	none
2025.3.27	25Ai003075	17.5	10.0	7.50	250	10	30	24.7	0.5	2.0	none
2025.3.27	25Ai003076	17.7	10.2	7.50	250	10	30	25.6	1.0	3.9	none
2025.3.27	25Ai003077	17.5	10.0	7.50	250	10	30	21.5	0.3	1.2	none
2025.3.27	25Ai003078	17.6	10.1	7.53	250	10	30	24.0	0.9	3.8	none
2025.3.27	25Ai003079	17.5	10.0	7.50	250	10	30	23.6	1.0	4.2	none
2025.3.27	25Ai003080	17.5	10.0	7.50	250	10	30	20.5	0.5	2.4	none
2025.3.27	25Ai003081	17.5	10.0	7.50	250	10	30	25.0	0.6	2.4	none
2025.3.27	25Ai003082	17.6	10.1	7.50	250	10	30	22.3	0.8	3.6	none
2025.3.27	25Ai003083	17.7	10.2	7.50	250	10	30	20.6	0.5	2.4	none
2025.3.27	25Ai003084	17.5	10.0	7.53	250	10	30	20.7	0.6	2.7	none

Product Ref.: ISO140-37Mn-00		Production lot number:			25Ai003		Quantity:		200	Page 3 of 5 pages	
Test date	Serial No.	(kg)Weight t (Water) (kg)	The weight without valve&cap (kg)	Volumetric Capacity (L)	Test Pressure (Bar)	Tempera ture (°C)	(s)Holding Time (s)	Total expansion (ml)	Permanent expansion (ml)	Percent of Permanent to totalexpansi on (%)	Abnormal bottle condition
2025.3.27	25Ai003085	17.5	10.0	7.54	250	10	30	25.9	0.8	3.1	none
2025.3.27	25Ai003086	17.6	10.1	7.50	250	10	30	24.8	0.6	2.4	none
2025.3.27	25Ai003087	17.5	10.0	7.50	250	10	30	22.6	0.6	2.7	none
2025.3.27	25Ai003088	17.5	10.0	7.50	250	10	30	24.2	0.8	3.3	none
2025.3.27	25Ai003089	17.5	10.0	7.54	250	10	30	25.4	0.6	2.4	none
2025.3.27	25Ai003090	17.5	10.0	7.50	250	10	30	20.6	0.9	4.4	none
2025.3.27	25Ai003091	17.5	10.0	7.50	250	10	30	24.7	0.9	3.6	none
2025.3.27	25Ai003092	17.5	10.0	7.52	250	10	30	20.9	0.5	2.4	none
2025.3.27	25Ai003093	17.5	10.0	7.50	250	10	30	22.4	0.8	3.6	none
2025.3.27	25Ai003094	17.5	10.0	7.50	250	10	30	25.9	0.9	3.5	none
2025.3.27	25Ai003095	17.5	10.0	7.50	250	10	30	21.3	0.7	3.3	none
2025.3.27	25Ai003096	17.5	10.0	7.50	250	10	30	20.2	0.6	3.1	none
2025.3.27	25Ai003097	17.5	10.0	7.50	250	10	30	22.7	0.4	1.8	none
2025.3.27	25Ai003098	17.6	10.1	7.53	250	10	30	20.4	0.5	2.5	none
2025.3.27	25Ai003099	17.5	10.0	7.50	250	10	30	24.6	0.6	2.4	none
2025.3.27	25Ai003100	17.5	10.0	7.50	250	10	30	20.7	0.4	1.7	none
2025.3.27	25Ai003101	17.5	10.0	7.50	250	10	30	24.1	0.6	2.5	none
2025.3.27	25Ai003102	17.7	10.1	7.56	250	10	30	23.0	0.8	3.5	none
2025.3.27	25Ai003103	17.5	10.0	7.53	250	10	30	22.3	0.4	1.6	none
2025.3.27	25Ai003104	17.7	10.2	7.50	250	10	30	25.8	0.7	2.7	none
2025.3.27	25Ai003105	17.5	10.0	7.50	250	10	30	23.4	0.4	1.8	none
2025.3.27	25Ai003106	17.5	10.0	7.50	250	10	30	24.5	0.7	2.9	none
2025.3.27	25Ai003107	17.5	10.0	7.50	250	10	30	25.4	0.8	3.1	none
2025.3.27	25Ai003108	17.8	10.3	7.54	250	10	30	22.1	0.5	2.4	none
2025.3.27	25Ai003109	17.5	10.0	7.50	250	10	30	21.2	0.8	3.8	none
2025.3.27	25Ai003110	17.5	10.0	7.50	250	10	30	20.9	0.4	1.9	none
2025.3.27	25Ai003111	17.5	10.0	7.50	250	10	30	23.5	0.6	2.6	none
2025.3.27	25Ai003112	17.8	10.3	7.54	250	10	30	25.3	0.4	1.6	none
2025.3.27	25Ai003113	17.5	10.0	7.50	250	10	30	20.8	0.4	1.7	none
2025.3.27	25Ai003114	17.5	10.0	7.50	250	10	30	25.9	1.0	3.9	none
2025.3.27	25Ai003115	17.6	10.1	7.50	250	10	30	23.3	0.8	3.4	none
2025.3.27	25Ai003116	17.5	10.0	7.50	250	10	30	20.4	0.5	2.5	none
2025.3.27	25Ai003117	17.5	10.0	7.52	250	10	30	20.5	0.6	2.9	none
2025.3.27	25Ai003118	17.5	10.0	7.50	250	10	30	25.6	0.8	3.1	none
2025.3.27	25Ai003119	17.7	10.2	7.53	250	10	30	20.6	0.6	2.9	none
2025.3.27	25Ai003120	17.6	10.1	7.50	250	10	30	25.8	1.0	3.9	none
2025.3.27	25Ai003121	17.5	10.0	7.50	250	10	30	21.0	0.6	2.9	none
2025.3.27	25Ai003122	17.6	10.0	7.56	250	10	30	21.4	0.4	1.9	none
2025.3.27	25Ai003123	17.5	10.0	7.53	250	10	30	22.6	0.7	3.1	none
2025.3.27	25Ai003124	17.7	10.2	7.53	250	10	30	23.4	0.3	1.4	none
2025.3.27	25Ai003125	17.6	10.0	7.56	250	10	30	20.4	0.6	2.9	none
2025.3.27	25Ai003126	17.5	10.0	7.50	250	10	30	24.5	0.6	2.4	none

Product Ref.: ISO140-37Mn-00		Production lot number:			25Ai003		Quantity:		200	Page 4 of 5 pages	
Test date	Serial No.	(kg)Weight (Water) (kg)	The weight without valve&cap (kg)	Volumetric Capacity (L)	Test Pressure (Bar)	Temperature (℃)	(s)Holding Time (s)	Total expansion (ml)	Permanent expansion (ml)	Percent of Permanent to totalexpansion (%)	Abnormal bottle condition
2025.3.27	25Ai003127	17.5	10.0	7.50	250	10	30	23.5	0.5	2.1	none
2025.3.27	25Ai003128	17.5	10.0	7.50	250	10	30	23.2	0.5	2.2	none
2025.3.27	25Ai003129	17.6	10.1	7.50	250	10	30	23.9	0.7	2.9	none
2025.3.27	25Ai003130	17.5	10.0	7.50	250	10	30	24.3	0.8	3.3	none
2025.3.27	25Ai003131	17.6	10.1	7.54	250	10	30	26.0	0.6	2.3	none
2025.3.27	25Ai003132	17.5	10.0	7.50	250	10	30	22.6	0.8	3.5	none
2025.3.27	25Ai003133	17.5	10.0	7.50	250	10	30	23.3	0.5	2.1	none
2025.3.27	25Ai003134	17.8	10.3	7.53	250	10	30	25.3	0.8	3.2	none
2025.3.27	25Ai003135	17.5	10.0	7.50	250	10	30	22.2	0.7	3.2	none
2025.3.27	25Ai003136	17.5	10.0	7.50	250	10	30	25.0	0.9	3.6	none
2025.3.27	25Ai003137	17.6	10.1	7.54	250	10	30	20.0	0.6	3.0	none
2025.3.27	25Ai003138	17.5	10.0	7.50	250	10	30	23.5	0.5	2.1	none
2025.3.27	25Ai003139	17.5	10.0	7.50	250	10	30	25.3	0.9	3.6	none
2025.3.27	25Ai003140	17.6	10.1	7.50	250	10	30	23.6	0.6	2.5	none
2025.3.27	25Ai003141	17.5	10.0	7.53	250	10	30	22.2	0.6	2.7	none
2025.3.27	25Ai003142	17.5	10.0	7.50	250	10	30	26.0	0.5	1.9	none
2025.3.27	25Ai003143	17.5	10.0	7.50	250	10	30	22.1	0.4	1.8	none
2025.3.27	25Ai003144	17.8	10.3	7.50	250	10	30	23.4	0.6	2.6	none
2025.3.27	25Ai003145	17.6	10.1	7.50	250	10	30	25.7	0.5	1.9	none
2025.3.27	25Ai003146	17.5	10.0	7.52	250	10	30	23.0	0.5	2.2	none
2025.3.27	25Ai003147	17.5	10.0	7.50	250	10	30	22.6	0.9	4.0	none
2025.3.27	25Ai003148	17.5	10.0	7.50	250	10	30	24.7	0.8	3.2	none
2025.3.27	25Ai003149	17.5	10.0	7.52	250	10	30	25.7	0.7	2.7	none
2025.3.27	25Ai003150	17.6	10.1	7.50	250	10	30	24.9	0.7	2.8	none
2025.3.27	25Ai003151	17.7	10.2	7.50	250	10	30	21.8	0.5	2.3	none
2025.3.27	25Ai003152	17.5	10.0	7.53	250	10	30	26.0	0.6	2.3	none
2025.3.27	25Ai003153	17.5	10.0	7.50	250	10	30	20.6	0.8	3.9	none
2025.3.27	25Ai003154	17.5	10.0	7.50	250	10	30	22.1	0.6	2.7	none
2025.3.27	25Ai003155	17.5	10.0	7.50	250	10	30	20.7	0.7	3.4	none
2025.3.27	25Ai003156	17.5	10.0	7.50	250	10	30	21.6	0.4	1.8	none
2025.3.27	25Ai003157	17.6	10.1	7.53	250	10	30	24.1	0.7	2.9	none
2025.3.27	25Ai003158	17.6	10.1	7.54	250	10	30	23.3	0.6	2.6	none
2025.3.27	25Ai003159	17.5	10.0	7.50	250	10	30	23.4	0.7	3.0	none
2025.3.27	25Ai003160	17.5	10.0	7.50	250	10	30	20.2	0.4	2.0	none
2025.3.27	25Ai003161	17.6	10.1	7.50	250	10	30	23.7	0.6	2.5	none
2025.3.27	25Ai003162	17.5	10.0	7.54	250	10	30	22.1	0.5	2.3	none
2025.3.27	25Ai003163	17.5	10.0	7.50	250	10	30	20.3	0.8	3.9	none
2025.3.27	25Ai003164	17.5	10.0	7.50	250	10	30	24.1	0.8	3.3	none
2025.3.27	25Ai003165	17.5	10.0	7.50	250	10	30	24.1	0.9	3.7	none
2025.3.27	25Ai003166	17.5	10.0	7.50	250	10	30	22.1	0.8	3.6	none
2025.3.27	25Ai003167	17.7	10.2	7.53	250	10	30	23.6	0.5	2.1	none
2025.3.27	25Ai003168	17.5	10.0	7.50	250	10	30	20.7	0.6	2.9	none

Product Ref.: ISO140-37Mn-00		Production lot number:			25Ai003		Quantity:		200	Page 5 of 5 pages	
Test date	Serial No.	(kg)Weight t (Water) (kg)	The weight without valve&cap (kg)	Volumetric Capacity (L)	Test Pressure (Bar)	Tempera ture (℃)	(s)Holding Time (s)	Total expansion (ml)	Permanent expansion (ml)	Percent of Permanent to totalexpansi on (%)	Abnormal bottle condition
2025.3.27	25Ai003169	17.5	10.0	7.50	250	10	30	23.2	0.6	2.6	none
2025.3.27	25Ai003170	17.7	10.2	7.50	250	10	30	25.6	0.7	2.7	none
2025.3.27	25Ai003171	17.5	10.0	7.50	250	10	30	21.6	0.9	4.2	none
2025.3.27	25Ai003172	17.5	10.0	7.50	250	10	30	22.6	0.7	3.1	none
2025.3.27	25Ai003173	17.5	10.0	7.50	250	10	30	25.8	0.7	2.7	none
2025.3.27	25Ai003174	17.5	10.0	7.53	250	10	30	22.9	0.8	3.5	none
2025.3.27	25Ai003175	17.6	10.1	7.50	250	10	30	22.7	0.6	2.6	none
2025.3.27	25Ai003176	17.6	10.0	7.56	250	10	30	24.2	1.0	4.1	none
2025.3.27	25Ai003177	17.5	10.0	7.50	250	10	30	20.7	0.7	3.4	none
2025.3.27	25Ai003178	17.5	10.0	7.50	250	10	30	22.2	0.6	2.5	none
2025.3.27	25Ai003179	17.5	10.0	7.50	250	10	30	21.7	0.6	2.8	none
2025.3.27	25Ai003180	17.5	10.0	7.54	250	10	30	20.8	0.7	3.2	none
2025.3.27	25Ai003181	17.6	10.1	7.50	250	10	30	20.5	0.4	1.8	none
2025.3.27	25Ai003182	17.5	10.0	7.50	250	10	30	25.1	0.8	3.2	none
2025.3.27	25Ai003183	17.8	10.3	7.50	250	10	30	22.8	0.7	3.1	none
2025.3.27	25Ai003184	17.5	10.0	7.50	250	10	30	22.7	0.4	1.8	none
2025.3.27	25Ai003185	17.5	10.0	7.54	250	10	30	25.2	0.8	3.2	none
2025.3.27	25Ai003186	17.5	10.0	7.50	250	10	30	25.9	0.9	3.5	none
2025.3.27	25Ai003187	17.7	10.2	7.50	250	10	30	23.9	0.5	2.1	none
2025.3.27	25Ai003188	17.5	10.0	7.53	250	10	30	20.6	0.5	2.2	none
2025.3.27	25Ai003189	17.5	10.0	7.50	250	10	30	22.6	0.5	2.2	none
2025.3.27	25Ai003190	17.7	10.1	7.56	250	10	30	25.8	0.5	1.9	none
2025.3.27	25Ai003191	17.7	10.2	7.50	250	10	30	21.8	0.6	2.8	none
2025.3.27	25Ai003192	17.5	10.0	7.50	250	10	30	25.1	0.8	3.2	none
2025.3.27	25Ai003193	17.5	10.0	7.50	250	10	30	25.9	0.6	2.3	none
2025.3.27	25Ai003194	17.6	10.1	7.53	250	10	30	23.3	0.8	3.4	none
2025.3.27	25Ai003195	17.5	10.0	7.50	250	10	30	22.9	0.6	2.6	none
2025.3.27	25Ai003196	17.8	10.3	7.54	250	10	30	21.0	0.6	2.9	none
2025.3.27	25Ai003197	17.7	10.2	7.50	250	10	30	24.5	0.5	2.0	none
2025.3.27	25Ai003198	17.5	10.0	7.53	250	10	30	24.2	0.7	2.9	none
2025.3.27	25Ai003199	17.6	10.1	7.54	250	10	30	22.0	0.6	2.7	none
2025.3.27	25Ai003200	17.5	10.0	7.50	250	10	30	24.8	0.6	2.4	none
2025.3.27	25Ai003201	Mechanical properties bottle									
2025.3.27	25Ai003202	Burst test bottle									

Hydrostatic test report

List No.: JL.12-09

Report NO.: Q/HSSY-BG-25Ai003

Product Model	ISO140-37Mn-00	Batch No.	25Ai003	Qty. (Cylinder No.)	202(25Ai003001~25Ai003202)	executive standard	EN ISO 9809-3: 2019
Technical requirements for hydraulic test							
test pressure (Bar)	250	dwel time (S)	30	Test the water temperature(℃)	≥5	difference between water temperature and ambient temperature	≤5
Measured data of hydraulic test							
test pressure (Bar)	250	dwel time (S)	30	measured temperature (℃)	10	ambient temperature (℃)	12
program of tests	1. Whether the air in the bottle to be tested and the pressure line is completely drained before the hydraulic test 2. Whether the test process is operated according to the requirements of Operation Instruction for Hydraulic Test 3. Whether the test record is signed for confirmation after completion of the test 4.EN ISO 9809-3: 2019, Acceptance standard: EN ISO 9809-3: 2019 ☒ Yes ☐ No ☒ Yes ☐ No ☒ Yes ☐ No						
inspection results	After inspection, the batch of gas cylinders have been tested under 250Bar water pressure, and during the pressure holding period, there is no leakage of the cylinder body and the joints, no drop of the pressure gauge pointer, no deformation and other abnormal phenomena Result: qualified						
Note	Q/HSSY-JL-25Ai003 See Q/HSSY-JL-25Ai003 Hydraulic Test Record for the serial number and detailed records.						
The batch is not included	Mechanical properties test cylinders number: 25Ai003201 Hydraulic burst test cylinders number: 25Ai003202						



Tester:

Date: 2025.3.27

Stress person:

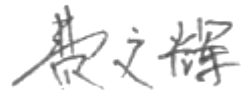
Date: 2025.3.27

Air tightness test report

List No.: BG.12-5

Report NO.: Q/HSQM-BG-25Ai003

Product Model	ISO140-37Mn-00	Batch No.	25Ai003	Qty. (Cylinder No.)		202 (25Ai003001~25Ai003202)	
Test method	Flooding method	test pressure (Bar)	150	test medium	compressed air	executive standard	EN ISO 9809-3: 2019
Test requirements	1. Air tightness test ambient temperature: 12℃						
	2. The air tightness test shall be carried out after passing the pressure test						☑ Yes ☐ No
	3. The surface of the test bottle shall not be contaminated with oil or other sundries.。 ☑ Yes ☐ No						
	4. Pressure the test bottle to the specified test pressure, hold pressure for 1 minute ☑ Yes ☐ No						
	5. At the end of the test, the cylinder should be slowly deflated to maintain proper pressure.。 ☑ Yes ☐ No						
	6. EN ISO9809-3: 2019		Acceptance standard EN ISO 9809-3:2019		 Attachment No: 2 belongs to Test Report No: M-25 0079		
Pass every test,qualified quantity (Qylinder No.)		200 (25Ai003001~25Ai003200)					
Rejected Quantity (Cylinder No.)		none		Processing opinion		/	
This batch is not included		Mechanical properties test bottle number: 25Ai003201 Blasting test bottle number: 25Ai003202					

Tester: 

Date: 2025.3.28

Inspector responsible person: 

Date: 2025.3.28