



Accreditation

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CERTIFICATE
OF ACCREDITATION

KEY DIFFUSION Ltd.

**Inspection body of type A
"Key Diffusion"**

Legal seat and registered address:

1712, Sofia, Residential Area "Mladost 3",
bl. 364, ent. 6, ap. 84

Office address:

1712, Sofia, Residential Area "Mladost 3",
2 "Eng. Georgi Belov" Str.

Unique Identification Code: 130435251

Accreditation scope

To perform inspection of:

Transportable pressure equipment:

Cylinders, tubes, pressure drums,

Closed cryogenic receptacles,

Bundles of cylinders/tubes,

Battery-vehicles, multiple-element gas containers („MEGCs"),

Tanks, their valves and other accessories when appropriate, for
carriage of substances of Class 2, excluding those for acetylene.

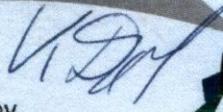
Materials/products for cylinders, manifolds for bundles of
cylinders/tubes and valves for carriage of substances of Class 2,
excluding those for acetylene.

Accredited according to БДС EN ISO/IEC 17020:2012

Order № A.233/13.05.2014. is inseparable part of the certificate of accreditation,
total8.... pages

Effective until: 13.05.2018r.

BAS reg.No: 265 OKA

Executive Director: 

Eng. Krastyu Ruynekov

Sofia 13.05.2014r.



**Executive Agency
“Bulgarian Accreditation Service”**

**ORDINANCE
№ A 233
Sofia, 13.05.2014**

On the grounds of article 10, paragraph 1, point 2 and article 20, paragraph 6 of the Law on National Accreditation of bodies performing conformity assessment and the relevant point 4.3.7 of Accreditation Procedure BAS QR 2 in relation to open procedure with registration № 387-OK/15.01.2013, Assessment Report № 387-OK-15/B/06.01.2014, Annex № 387-OK-18/B/03.04.2014, standpoint of the Accreditation Commission № 387-OK/19/B/28.04.2014,

I DO ACCREDIT

“KEY DIFFUSION” Ltd.

An Inspection Body of type A “Key Diffusion”

Legal seat and registered address: 1712, Sofia, Residential Area “Mladost 3”, block 364, entrance 6, ap. 84

Office address: 1712, Sofia, Residential Area “Mladost 3”, 2 “Eng. Georgi Belov” Str.

To perform inspection of:

№	Field of Inspection	Type of Inspection*	Inspection Scope pursuant to the parameter	Test and Measuring Methods used during inspection	Regulations, Standards, Specifications, Charts, Patterns
1	2	3	4	5	6
1	Transportable pressure equipment: Cylinders, tubes, pressure drums, Closed cryogenic receptacles, Bundles of cylinders/tubes, Battery-vehicles, multiple-element gas containers („MEGCs“), Tanks, their valves and other accessories when appropriate, for carriage of substances of Class 2, excluding those	Approval of the type	Technical documentation in regard to: conformity of the design/construction with the applicable requirements, material certificates; documents for approval of procedures for permanent joints and certificates of the personnel performing the permanent joints and non-destructive tests;	БДС ISO 9809-1,2,3 (БДС EN 1964-1,2,3) БДС EN 1442+A1:08 БДС EN ISO 10961 (БДС EN 13769) БДС EN 13807 БДС EN ISO 10297 (БДС EN 849) БДС EN ISO 11120 БДС ISO 7866 БДС EN 1251-2 БДС EN 13530-2 БДС EN 12493 РПК-01-00; РПК-05-00; РПК-06-00;	6.2.1.1, p.6.2.1.2, p.6.2.1.3, p.6.2.1.4.1, p.6.2.2.7, p.6.2.3.1, p.6.2.3.3, p.6.2.3.9, p.6.7.5.2, p.6.7.5.3, p.6.7.5.4, p.6.7.5.5, p.6.7.5.6, p.6.7.5.7, p.6.7.5.8, p.6.7.5.9, p.6.7.5.10, p.6.7.5.13, p.6.8.2.1, p.6.8.2.2, p.6.8.2.5, p.6.8.3.1, p.6.8.3.2, p.6.8.3.5 of ADR, RID, ADN, БДС ISO 9809-1,2,3 (БДС EN 1964-1,2,3)

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	for acetylene.			РПК-11-00; ОПК-08-06; ОПК-09-03;	БДС EN 1442+A1:08) БДС EN ISO 10961 (БДС EN 13769) БДС EN 13807 БДС EN ISO 10297 (БДС EN 849) БДС EN ISO 11120 БДС ISO 7866 БДС EN 1251-2 БДС EN 13530-2 БДС EN 12493
2	Cylinders and tubes - working under pressure, for carriage of substances of Class 2, excluding those for acetylene.	Initial inspection and inspection of the type	Type, size and location of imperfections/defects by means of Visual Test (VT) method,	БДС EN ISO 9809-1,2,3 (БДС EN 1964-1,2,3) БДС EN ISO 11120 ОПК-07-01, ОПК-07-04, ОПК-07-09	p.6.2.1.5.1 of ADR, RID, ADN, БДС EN ISO 9809-1,2,3 (БДС EN 1964-1,2,3) БДС EN ISO 11120
			Geometrical dimensions: deviation from circularity, mean diameter, straight linearity, wall thickness, length, volume, water capacity	БДС EN ISO 9809-1,2,3 (БДС EN 1964-1,2,3) БДС EN ISO 11120 ОПК-07-02 ОПК-07-09	p.6.2.1.5.1 of ADR, RID, ADN, БДС EN ISO 9809-1,2,3 (БДС EN 1964-1,2,3) БДС EN ISO 11120
			Tensile strength test of the material	БДС EN ISO 9809-1,2,3; (БДС EN 1964-1,2,3) БДС EN ISO 11120; БДС EN ISO 6892-1; ОПК-07-03	p.6.2.1.5.1 of ADR, RID, ADN, БДС EN ISO 9809-1,2,3 (БДС EN 1964-1,2,3) БДС EN ISO 11120
			Visual inspection test after bending test.	БДС EN ISO 9809-1,2,3; (БДС EN 1964-1,2,3) БДС EN ISO 7438; БДС EN ISO 11120; ОПК-07-04	p.6.2.1.5.1 of ADR, RID, ADN, БДС EN ISO 9809-1,2,3 (БДС EN 1964-1,2,3) БДС EN ISO 11120
			Material impact strength through the impact test.	БДС EN ISO 9809-1,2,3; (БДС EN 1964-1,2,3) БДС EN ISO 148; ОПК-07-05	p.6.2.1.5.1 of ADR, RID, ADN, БДС EN ISO 9809-1,2,3 (БДС EN 1964-1,2,3)
			Burst pressure, type of destruction (fracture), dimensions and location of cracks, shape of ridges, volumetric	БДС EN ISO 9809-1,2,3 (БДС EN 1964-1,2,3) БДС EN ISO	p.6.2.1.5.1 of ADR, RID, ADN, БДС EN ISO 9809-1,2,3 (БДС EN 1964-

			expansion, pressure / time chart by using the hydraulic test method for destruction.	11120 ОПК-07-06,	1,2,3) БДС EN ISO 11120
			Test method through cyclic load.	БДС EN ISO 9809-1,2,3 (БДС EN 1964-1,2,3) ОПК-07-07	p.6.2.1.5.1 of ADR, RID, ADN, БДС EN ISO 9809-1,2,3 (БДС EN 1964-1,2,3)
			Pressure, volumetric expansion test by the hydraulic test method	БДС EN ISO 9809-1,2,3 (БДС EN 1964-1,2,3) БДС EN ISO 11120	p.6.2.1.5.1 of ADR, RID, ADN, БДС EN ISO 9809-1,2,3 (БДС EN 1964-1,2,3)
			Degree of tightness, incompleteness, leaks, through the leak test method.	БДС EN ISO 9809-1,2,3 (БДС EN 1964-1,2,3) БДС EN ISO 11120 БДС EN 13184 ОПК-07-13	p.6.2.1.5.1 of ADR, RID, ADN, БДС EN ISO 9809-1,2,3 (БДС EN 1964-1,2,3) БДС EN ISO 11120
			Examining the hardness of material by the Brinell test method.	БДС EN ISO 9809-1,2,3 (БДС EN 1964-1,2,3) БДС EN ISO 11120 БДС EN ISO 6506 ОПК-07-08	БДС EN ISO 9809-1,2,3 (БДС EN 1964-1,2,3) БДС EN ISO 11120
			Wall thickness by ultrasonic test method.	БДС EN ISO 9809-1,2,3 (БДС EN 1964-1,2,3) БДС EN ISO 11120 БДС EN 14127 ОПК-07-10	p.6.2.1.5.1 of ADR, RID, ADN, БДС EN ISO 9809-1,2,3 (БДС EN 1964-1,2,3) БДС EN ISO 11120 БДС EN 14127
3	Bundles of cylinders/tubes, and their components, working under pressure, for carriage of substances of Class 2, excluding those for acetylene.	Initial inspection and test of the type	Strength test by loading twice the gross weight and upon a drop (drop test)	БДС EN ISO 10961 (БДС EN 13769) ОПК-08-01 ОПК-08-05	БДС EN ISO 10961 (БДС EN 13769)
			Presence of incompleteness, imperfections, through magnetic particle test method	БДС EN ISO 10961 (БДС EN 13769) БДС EN ISO 17638 ОПК-08-02	БДС EN ISO 10961 (БДС EN 13769) БДС EN ISO 23278
			Pressure, deformations, defects, leakage through hydraulic or pneumatic test method	БДС EN ISO 10961 (БДС EN 13769) ОПК-08-03	p. 6.2.1.1.5, p. 6.2.1.1.6, p. 6.2.5.3 of ADR, RID, ADN

					БДС EN ISO 10961 (БДС EN 13769)
			Degree of tightness, leakages, through the leak test method.	БДС EN ISO 10961 (БДС EN 13769) БДС EN 13184 ОПК-08-04	p. 6.2.1.1.6 of ADR, RID, ADN БДС EN ISO 10961 (БДС EN 13769)
4	Battery-vehicles, multiple-element gas containers (MEGCs) and their components for carriage of substances of Class 2, excluding those for acetylene.	Initial inspection and control of the type	Pressure, deformations, defects, leakage through hydraulic or pneumatic test method	БДС EN 13807 ОПК-09-01	p. 6.8.3.4.2 of ADR, RID, ADN БДС EN 13807
			Degree of tightness, leakage, through the leak test method.	БДС EN 13807 БДС EN 13184 ОПК-09-02	p. 6.8.3.2.21 of ADR, RID, ADN БДС EN 13807
5	Refillable gas cylinder valves for carriage of substances of Class 2, excluding those for acetylene.	Inspection of the type	Pressure, deformations, defects, leakages through hydraulic test method	БДС EN ISO 10297 БДС EN 849 ОПК-10-01	БДС EN ISO 10297 БДС EN 849
			Presence of leakages, through the leak test method.	БДС EN ISO 10297 (БДС EN 849) БДС EN 13184 ОПК-10-02	БДС EN ISO 10297 БДС EN 849
			Durability – running out, defects, through the cyclic load test method	БДС EN ISO 10297 (БДС EN 849) ОПК-10-03	БДС EN ISO 10297 (БДС EN 849)
			Defects, through a test method, by application of excessive torque	БДС EN ISO 10297 (БДС EN 849) ОПК-10-04	БДС EN ISO 10297 (БДС EN 849)
			Presence of leakages, by applying mechanical impact and leak test.	БДС EN ISO 10297 (БДС EN 849) ОПК-10-05	БДС EN ISO 10297 (БДС EN 849)
			Resistance to shock wave with oxygen – presence of ignition traces	БДС EN ISO 10297 (БДС EN 849) ОПК-10-06	БДС EN ISO 10297 (БДС EN 849)
			Functioning of the driving mechanism, after exposure to fire	БДС EN ISO 10297 (БДС EN 849) ОПК-10-07	БДС EN ISO 10297 (БДС EN 849)
			Running out, defects, through VT - visual test method	БДС EN ISO 10297 (БДС EN 849) ОПК-10-07, ОПК-10-06, ОПК-10-05	БДС EN ISO 10297 (БДС EN 849)
6	Cylinders, tubes and their valves for carriage of substances of Class 2, excluding those for acetylene.	Periodic inspection, intermediate inspection and exceptional checks	Pressure, leakages, deformations, through hydraulic test method	p.6.2.1.6.1 of ADR, RID, ADN БДС EN 1968 ISO 6406 БДС EN ISO 11623 БДС EN 1802 БДС EN 1803 ОПК-12-01	p.6.2.1.6.1 of ADR, RID, ADN БДС EN 1968 ISO 6406 БДС EN ISO 11623 БДС EN 1802 БДС EN 1803
			Imperfections, defects, corrosion, through VT -	p.6.2.1.6.1 of ADR, RID, ADN	p.6.2.1.6.1 of ADR, RID, ADN

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			visual test method	БДС EN 1968 ISO 6406 БДС EN ISO 11623 БДС EN 1802 БДС EN 1803 БДС EN ISO 17637 БДС EN 14189 ОПК-12-02 ОПК-12-05	БДС EN 1968 ISO 6406 БДС EN ISO 11623 БДС EN 1802 БДС EN 1803 EN 14189
			Wall thickness by ultrasonic test method.	БДС EN 1968 ISO 6406 БДС EN ISO 11623 БДС EN 1802 БДС EN 1803 БДС EN 14127 ОПК-12-03 ОПК-15-02 ОПК-14-04	p.6.2.1.6.1 of ADR, RID, ADN БДС EN 1968 ISO 6406 БДС EN ISO 11623 БДС EN 1802 БДС EN 1803
			Weight/capacity	БДС EN 1968 ISO 6406 БДС EN ISO 11623 БДС EN 1802 БДС EN 1803 ОПК-12-04	БДС EN 1968 ISO 6406 БДС EN ISO 11623 БДС EN 1802 БДС EN 1803
7	Closed cryogenic receptacles up to 1000 litres and their components for carriage of substances of Class 2, excluding those for acetylene.	Periodic inspection, intermediate inspection and exceptional checks	Presence of leakages, by applying the leak test method.	p.6.2.3.5.2 of ADR, RID, ADN БДС EN 1251-3 БДС EN 13184 ОПК-13-02; ОПК-13-03; ОПК-13-04	p.6.2.3.5.2 of ADR, RID, ADN БДС EN 1251-3
			Imperfections, defects, corrosion, through VT - visual test method.	БДС EN 1251-3 БДС EN ISO 17637 ОПК-13-01; ОПК-13-02;	БДС EN 1251-3 БДС EN ISO 5817
8	Bundles of cylinders and their components for carriage of substances of Class 2, excluding those for acetylene.	Periodic inspection, intermediate inspection and exceptional checks	Presence of leakages, by applying the leak test method.	БДС EN 13184; ОПК-14-01;	p.6.2.1.1.5, p.6.2.1.1.6 of ADR, RID, ADN
			Pressure/load, deformations, defects, leakages, through hydraulic test method.	p.6.2.1.1.5, p.6.2.1.1.6 of ADR, RID, ADN ОПК-14-02;	p.6.2.1.1.5, p.6.2.1.1.6 of ADR, RID, ADN
			VT – visual test method: type, size and location of imperfections/defects.	p.6.2.1.1.6 of ADR, RID, ADN БДС EN ISO 17637 ОПК-14-03; ОПК-14-05;	p.6.2.1.1.6 of ADR, RID, ADN БДС EN ISO 5817
9	Battery-vehicles and multiple-element gas containers (MEGCs) for carriage of substances of Class	Periodic inspection, intermediate inspection and	Pressure, deformations, defects, leakages, through hydraulic test method.	p.6.8.3.4.12 of ADR, RID, ADN ОПК-15-04;	p.6.8.3.4.10, p.6.8.3.4.12, p.6.7.5.12.4 of ADR, RID, ADN
			Imperfections, defects, corrosion, components of	p.6.8.3.4.15 of ADR, RID, ADN	p.6.8.3.4.15, p.6.7.5.12.6,

	2, excluding those for acetylene.	exceptional checks	the construction, presence of electrical grounding, presence of electrical connections between tanks/containers and the undercarriage frame, through the VT - visual test method.	БДС EN ISO 17637 ОПК-15-01; ОПК-15-05;	p.6.7.5.2.11, p.6.8.2.1.27 of ADR, RID, ADN БДС EN ISO 5817;
			Presence of leakages, by applying the leak test method.	p.6.8.3.4.13 of ADR, RID, ADN БДС EN 13184 ОПК-15-03;	p.6.8.3.4.13, p.6.8.3.4.10 of ADR, RID, ADN
10	Tanks, their valves and other accessories when appropriate, for carriage of substances of Class 2, excluding those for acetylene.	Periodic inspection, intermediate inspection and exceptional checks	Imperfections, defects, corrosion, through the VT - visual test method.	БДС EN 12972 БДС EN ISO 17637 ОПК-16-01; ОПК-16-04;	p.6.7.2.19.8, p.6.8.2.4.2, p.6.7.2.19.4, p.6.7.2.19.5 of ADR, RID, ADN БДС EN 12972
			Pressure/load, leakages, deformations, through hydraulic or pneumatic test method.	БДС EN 12972 ОПК-16-06;	p.6.7.2.19.4, p.6.8.2.4.2 of ADR, RID and ADN БДС EN 12972
			Presence of leakage, by applying the leak test method.	БДС EN 12972 БДС EN 13184 ОПК-16-02; ОПК-16-07;	p.6.7.2.19.5, p.6.8.2.4.3, p.6.8.2.4.2, p.6.8.3.4.7, p.6.8.3.4.9 of ADR, RID, ADN БДС EN 12972
			Electrical resistance between the ground terminal stud and the metal parts of the tank and its equipment	p.6.8.2.1.27 of ADR, RID, AND; p.5.5.4 of БДС EN 12972 ОПК-16-03;	p.6.8.2.1.27 of ADR, RID, AND; p.5.5.4 of БДС EN 12972
			Wall thickness by ultrasonic test method.	БДС EN 12972 БДС EN 14127 ОПК-16-05;	p.6.8.2.1.18 of ADR, RID, AND; БДС EN 12972
11	Materials/products for cylinders, manifolds for bundles of cylinders/tubes and valves for carriage of substances of Class 2, excluding those for acetylene.	Initial inspection and exceptional checks	Compatibility of the material with the gas content by an auto-ignition test in an oxygen atmosphere.	БДС EN ISO 11114-3 БДС EN 1797 БДС EN ISO 10297 (БДС EN 849) ОПК-07-11; ОПК-08-07; ОПК-10-08	БДС EN ISO 11114-1,2, БДС EN 1797 БДС EN ISO 10297 (БДС EN 849) Technical Specification;

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European Agreement on the International Carriage of Dangerous Goods by Roads (ADR).
European Agreement on the International Railway Carriage of Dangerous Goods (RID).
European Agreement on the International Carriage of Dangerous Goods by inland waterways (ADN).

I DO ORDER

To be issued a Certificate for Accreditation with reg. № 265 OKA of 13.05.2014, valid until 13.05.2018, together with the present Ordinance as an Enclosure - an integral part of the Certificate.

The Certificate for Accreditation, together with the Enclosure, should be received by a manager/representative of the legal entity/sole proprietor, the Head of "Environmental Protection", or by another authorized representative, in the building of the EA BAS.

This Ordinance should be communicated to the legal entity/sole proprietor within 3 (three) days of its issuance.

ENGINEER KRASTIO RUINEKOV: *Signature /illegible/*
Executive Director
EA "Bulgarian Accreditation Service"

Round stamp:
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REPUBLIC OF BULGARIA**

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The undersigned, Stefka Raytcheva Raytcheva, affidavit registration No.1785/12.07.2010, I do certify the accuracy of the present translation from Bulgarian into English of the enclosed document. The translation consists of 9 /nine/ pages.

Translator.....

EA "BAS"

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