



Type Approval Certificate
No. 3-4.3.5.2. /39010-A/2018



Issued in accordance with Article 1.8.7.2. of the European Agreement Concerning the International Carriage of Dangerous Goods by Road/ the Regulations Concerning the International Carriage of Dangerous Goods by Rail (ADR/RID), the Directive 2010/35/EU (TPED) and Annex 1 of the Directive 2008/68/EC

We hereby certify that the type of valves conforms with the Directive 2010/35/EU (TPED) and the Directive 2008/68/EC

HOLDER OF THE CERTIFICATE:

NOVOGAS

Registration No. 500235715

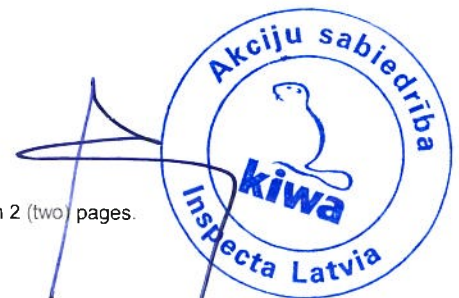
DESCRIPTION OF PRODUCT RANGE:

NAME	Pressure relief valves according EN ISO 15995 for transportable refillable cylinders for Liquefied Petroleum Gas (LPG) with internal safety valves according EN 13953
MANUFACTURER	NOVOGAS/ ОАО «НЗГА» (Открытое акционерное общество "Новогрудский завод газовой аппаратуры")
LOCATION OF THE MANUFACTURER	Mickevicha 109, 231400, Novogrudok, Belarus (ул. Мицкевича 109, 231400, г. Новогрудок, Республика Беларусь)
TYPE IDENTIFICATION NO.	ГЛИУ. 456.00.00; ГЛИУ. 456.00.00-05
MAX. ALLOWABLE PRESSURE PS (BAR)	16
TEST PRESSURE (BAR)	25
MAX. ALLOWABLE TEMPERATURE TS (°C)	- 40 ÷ +65
MENTIONED FOR FLUIDS	Liquefied petrol gas (LPG)
UN No of FLUID	1011, 1075, 1965, 1969, 1978
CLASSIFICATION OF FLUID	2F
PERIOD BETWEEN PERIODIC INSPECTIONS (YEARS)	10

CERTIFICATE ISSUED: 30.10.2018
CERTIFICATE UPDATED: 03.09.2019
CERTIFICATE UNTIL: 30.10.2028

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This Certificate consists of this page and an Annex on 2 (two) pages.



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I. List of standards and other regulations used for the assessment:

1. The European Agreement Concerning the International Carriage of Dangerous Goods by Road 2019 (ADR)
2. Directive 2008/68/EC of the European Parliament and of the Council of 24 September 2008 on the inland transportation of dangerous goods
3. Directive 2010/35/EU of the European Parliament and of the Council of 16 June 2010, on transportable pressure equipment
4. Standard EN ISO15995 "Gas cylinders – Specification and testing of LPG cylinder valves–Manually operated"
5. Standard EN 13953 "LPG equipment and accessories – Pressure relief valves for transportable refillable cylinders for Liquefied Petroleum Gas (LPG)
6. For all the type tests the most recent version of standards EN ISO15995 and EN13953

II. Performed type examination tests and results:

Sample valves with safety valves for the type testing from the first batch of valves were taken by Inspecta Latvia according to EN ISO15995 and EN13953.

All tests were performed by an accredited laboratory OAO" Новогрудский завод газовой аппаратуры" under supervision of Inspecta Latvia

1. Table. EN ISO 15995

Test	Test detail	Clause according EN ISO 15995	Valve sample number	Result	No and date of report
1	Hydraulic pressure	5.4	1	Positive	Report No 1, 18.09.2018
2	External and internal tightness	5.5	1	Positive	Report No 2, 18.09.2018
3	Valve closure	5.6	1	Positive	Report No 3, 19.09.2018
4	Valve stem	5.7	2	Positive	Report No 4, 20.09.2018
5	External and internal tightness	5.8	2	Positive	Report No 5, 20.09.2018
6	Hand wheel fire exposure	5.9	3	Positive	Report No 6, 19.09.2018
7	Impact	5.10	7	Positive	Report No 7/8, 18.09.2018
8	External and internal tightness	5.11	7	Positive	Report No 7/8, 18.09.2018
9	Resistance to excessive closing torque	5.12	5 and 6	Positive	Report No 9, 19.09.2018
10	Resistance to excessive closing torque	5.13	4 and 8	Positive	Report No 10, 19.09.2018
11	External tightness	5.14	5 and 6 4 and 8	Positive	Report No 11, 19.09.2018
12	External and internal tightness before ageing	5.15	9 to 13	Positive	Report No 12, 24.09.2018
13	External and internal tightness after ageing	5.16	9 to 13	Positive	Report No 13, 26.09.2018
14	Endurance – Part 1 Endurance – Part 2	5.17	9 to 13	Positive	Report No 14, 04.10.-08.10.2018
15	External and internal tightness	5.18	9 to 13	Positive	Report No 15, 08.10.2018
16	External and internal tightness – High temperature	5.19	9 to 13	Positive	Report No 16, 16.10.2018
17	External and internal tightness – Low temperature	5.20	9 to 13	Positive	Report No 17, 09.10.-11.10.2018
18	Examination of dismantled valves	5.21	9 to 13	Positive	Report No 18, 17.10.2018



2. Table. EN 13953 (ГЛИУ. 456.00.00)

Test	Test detail	Clause according EN 13953	Valve sample number	Result	No and date of report
1	Dimensional check	7.3	1	Positive	Report No 19, 18.09.2018
2	Pressure proof test	7.4	1	Positive	Report No 20, 18.09.2018
3	Leak tightness test before again	7.5	14, 15, 16	Positive	Report No 21, 18.09.2018
4	Start to discharge pressure	7.6	14, 15, 16	Positive	Report No 22, 18.09.2018
5	Discharge capacity	7.7	14, 15, 16	Positive	Report No 23, 18.09.2018
6	Leak tightness	7.8	14, 15, 16	Positive	Report No 24, 26.09.2018
7	Endurance Test	7.9	14, 15, 16	Positive	Report No 25, 04.10.2018
8	Visual Inspection	7.10	14, 15, 16	Positive	Report No 26, 17.10.2018

3. Table. EN 13953 (ГЛИУ. 456.00.00-05)

Test	Test detail	Clause according	Valve sample number	Result	No and date of report
1	Dimensional check	EN 13953, 7.3	1-8	Positive	Report No 1, 20.08.2019
2	Marking	EN 13953, 10	1-8	Positive	Report No 2, 20.08.2019
3	Dimensional check thread 25E EN ISO 11363-1, W28,8x1/14"	EN ISO 11363-1	1-8	Positive	Report No 3, 20.08.2019
4	External and Internal tightness, 25 bar	EN ISO 15995, 5.8	1-8	Positive	Report No 4, 20.08.2019
5	External and Internal tightness, 0,1 bar	EN ISO 15995, 5.8	4-8	Positive	Report No 5, 20.08.2019
6	Valve stem test	EN ISO 15995, 5.7	5,7,8	Positive	Report No 6, 20.08.2019

III. List of the relevant parts of the technical documentation:

Document type	Identification and version of the document	
	ГЛИУ. 456.00.00	ГЛИУ. 456.00.00-05
Drawings	ГЛИУ. 456.00.00 СБ 15.07.2019 ГЛИУ. 456.10.00 СБ 27.04.2017 ГЛИУ. 456.20.00 СБ28.04.2017 ГЛИУ. 456.30.00 СБ28.04.2017	
Description	ГЛИУ. 456.00.00 ТО 15.07.2019	
Strength calculations	ГЛИУ. 456.00.00 РП 04.04.2018	
Instruction of usage	ГЛИУ.456.00.00 ПС 15.07.2019	
Other information	List of standards used in the designing and manufacturing of Pressure relief valves for transportable refillable cylinders for Liquefied Petroleum Gas (LPG) with internal safety valves, 21.08.2019 Certificate of accreditation Independent department of inspection (ОТК) BY/112 2.01.0628, 20.09.1997 issued on 30.11.2020	



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This annex consists of 2 (two) pages and is an integral part of the certificate.

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