Certificate No: LR2318878TA
Issue Date: 19/11/2022
Expiry Date: 18/11/2027

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	**Niezgodka GmbH**
Address	Bargkoppelweg 73, Hamburg, 22145, Germany
Type	Safety Valves
Description	Standard safety relief valves, spring loaded, with closed bonnet, with or without lifting lever. Body materials: spheroidal graphite iron, steel or stainless steel. Metallic or soft sealing.
Trade Name	1.1, 1.2, 1.7, 10.1, 10.2, 10.7, 19.1, 19.2, 19.7, 30.1, 30.2, 30.7, 31.1, 31.2, 31.7, 140.2, 140.7
Application	As safety devices for the relief of gaseous oxygen (only up to 60°C), steam, gases and non-boiling liquids for pressure vessels and piping systems in the industrial field, marine and offshore installations. Types 1, 19 and 140 also for use in fire extinguishing systems.
Specified Standard	AD-2000 Regelwerke Merkblätter A2, DIN 12516-2, DIN EN ISO 4126-1, Lloyd´s Register´s Rules and Regulations for the Classification of Ships, 2022.

Torsten Schroeder

Senior Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: 96/20031(E4)-02

The Design Appraisal Document HMD 13139-04, Issue No. 5 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

RATINGS

Type	Size	Standards		Working temperature	Set pressure	Information
		AD A2	ISO 4126			
1.1	I			-10 to +280°C	0,1 to 190 bar	Relief valve
1.2	I			-60 to +280°C	0,1 to 190 bar	Relief valve
1.7	I			-200 to +280°C	0,1 to 190 bar	Relief valve
1.1	II			-10 to +280°C	0,05 to 190 bar	Relief valve
1.2	II			-60 to +280°C	0,05 to 190 bar	Relief valve
1.7	II			-200 to +280°C	0,05 to 190 bar	Relief valve
10.1	I	x		-10 to +350°C	0,05 to 200 bar	Safety relief valve
10.2	I	x		-60 to +400°C	0,05 to 500 bar	Safety relief valve
10.7	I	x		-200 to +300°C	0,05 to 500 bar	Safety relief valve
10.1	II	x	x	-10 to +350°C	0,1 to 70 bar	Safety relief valve
10.2	II	x	x	-60 to +400°C	0,1 to 70 bar	Safety relief valve
10.7	II	x	x	-200 to +300°C	0,1 to 70 bar	Safety relief valve
19.1	II	x	x	-10 to +280°C	0,05 to 130 bar	Safety relief valve
19.2	II	x	x	-60 to +280°C	0,05 to 130 bar	Safety relief valve
19.7	II	x	x	-200 to +280°C	0,05 to 130 bar	Safety relief valve
19.1	II			-10 to +280°C	>130 to 160 bar	Relief valve
19.2	II			-60 to +280°C	>130 to 160 bar	Relief valve
19.7	II			-200 to +280°C	>130 to 160 bar	Relief valve
30.1/31.1	I	x	x	-10 to +350°C	0,1 to 40 bar	Safety relief valves
30.2/31.2	I	x	x	-60 to +400°C	0,1 to 40 bar	Safety relief valves
30.7/31.7	I	x	x	-200 to +300°C	0,1 to 40 bar	Safety relief valves
30.1/31.1	II	x	x	-10 to +350°C	0,1 to 40 bar	Safety relief valves
30.2/31.2	II	x	x	-60 to +400°C	0,1 to 40 bar	Safety relief valves
30.7/31.7	II	x	x	-200 to +300°C	0,1 to 40 bar	Safety relief valves
30.1/31.1	III	x	x	-10 to +350°C	0,05 to 40 bar	Safety relief valves
30.2/31.2	III	x	x	-60 to +400°C	0,05 to 40 bar	Safety relief valves
30.7/31.7	III	x	x	-200 to +300°C	0,05 to 40 bar	Safety relief valves
30.1/31.1	IV	x	x	-10 to +350°C	0,05 to 25 bar	Safety relief valves
30.2/31.2	IV	x	x	-60 to +400°C	0,05 to 25 bar	Safety relief valves
30.7/31.7	IV	x	x	-200 to +300°C	0,05 to 25 bar	Safety relief valves
140.2	I	x	x	-200 to +280°C	0,2 to 500 bar	Safety relief valve
140.7	I	x	x	-200 to +280°C	0,2 to 500 bar	Safety relief valve

RATINGS, cont.

Type 30

Size	III	III	III	III
DN	50/50	50/50	65/65	65/65
Do [mm]	32	40	40	50
Lift H [mm]	4,5	5	5	6,5
Max. C-value	31	25	27	22

Type 30

Size	IV	IV	IV	IV
DN	80/80	80/80	100/100	100/100
Do [mm]	50	58	60	70
Lift H [mm]	8,5	8,5	10	11
Max. C-value	39	35	37	34

Type 31

Size	III	III	IV	IV
DN	40/50	50/65	65/80	80/100
Do [mm]	32	40	50	60
Lift H [mm]	4,5	5	8,5	10
Max. C-value	30	27	39	37

RESTRICTIONS

Valves are not to be used in LNG systems.

Only types 30 and 31 with specified C-values as listed above are to be used as boiler safety valves and safety devices in marine and offshore environment, classed or intended for classification with Lloyd's Register.

The manufacturer's maintenance and fitting instruction is to be sought. Suitable condensate drainage is to be arranged for steam safety valve chest or blow-off pipe without further shut-off valves.

Using soft seals at the valve discs the producer's recommendation for pressure and temperature to be adhered to.