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Certificate No: 15-20076-02 Issue Date: 08/04/2020 Expiry Date: 27/07/2025

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 Herose GmbH Armaturen und Metalle

Address Elly-Heuss-Knapp-Str. 12, Bad Oldesloe, 23843, Germany

Type Safety Valves

Description Standard or full lift safety valves, optional with lifting device or bellow sealed,

with thread connection consisting of stainless steel or bronze body, soft or

metal seated disc.

Types

06800, 06801, 06805, 06806 standard safety valves with bellow;

06011, 06012, 06016, 06381 standard safety valves;

06383, 06413 full lift safety valves;

06440, 06441, 06445, 06446 standard safety valves;

Trade Name Cryogenic-Safety Valves

Application LNG and cryogenic service on board of ships classed or intended for

classification with Lloyd's Register.

Specified Standard Lloyd's Register's Rules and Regulations for the Classification of Ships, 2019;

Lloyd's Register's Rules and Regulations for the Construction and Classification

of for the Carriage of Liquefied Gases in Bulk, 2019;

DIN EN 13648-1, EN ISO 4126-4,

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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Ratings see Appendix

Other Conditions Not to be used for boiler or steam generator.

The manufacturer's operating and maintenance instructions are to be sought.

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.

The Design Appraisal Document No. HTS/ENS 33077-15, Issue No. 1 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

RATINGS:

Тур	oe e	Size	Do	Set Pressure
		[inch]	[mm]	[bar]
068 068	800, 06801,** 06805, 806	G1/2 - G1**	12,5 - 23	3 – 25*
060	011, 06012, 06016	G1/4 – G1/2	6	1 – 55
063	381	G1/2 - G3/4	10,5	0,2 - 36
063	383, 06413	G1/2 – G2	7 - 23	2 – 50*
064	140, 06441, 06445, 06446	G1/2 – G1 1/4	7 - 23	0,4 - 50*

R- and NPT- thread connections are optional available.

Temperature range: -270°C to +225°C depending on type. Temperature reduction as per manufacturer data sheet.

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^{*)} Minimum and maximum set pressures depend on sizes, pressure reduction as per manufacturers data sheets.

^{**)} Only size G 1", do=23 mm of these type group cryogenic tested .