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Certificate No: 15-20075-02 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 Valves - General

Description Strainer, check valves and divertor valves for cryogenic service made of

materials stainless steel or bronze with soft seals, welded, flanged or threaded

connection types available.

Types

08416, 08432, 08716, 08717, 08732 – Strainer, 05417, 05419, 05714, 05717, 05719 – Check valves, 06520, 06521, 06530, 06531 – Divertor valves

Trade Name Cryogenic-Strainer, Check Valves and Divertor 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;

BS 6364

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

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Ratings see Appendix

Other Conditions Not to be used for emergency shut down or terminal (end of pipe) applications

for flammable fluids.

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 33076-15, Issue No. 1 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

RATINGS:	Type: Strainer	Size:	Pressure:	Connection:
	08416	DN10-DN50	PN50	threaded
	08432	DN15-DN150	PN40 / Class300	flanged
	08716	DN10-DN50	PN50	threaded
	08717	DN10-DN150	PN40 / Class300	butt and socket welded
	08732	DN15-DN150	PN40 / Class300	
	Check valves			
	05417	DN10-DN50	PN50	threaded
	05419	DN15-DN150	PN40 / Class300	flanged
	05714	DN10-DN150	PN50; DN150 PN40	butt and socket welded
	05717	DN10-DN50	PN50	threaded
	05719	DN15-DN150	PN40 / Class300	flanged
	Divertor valves			
	06520	DN20	PN50	threaded
	06521	DN20	PN50	threaded
	06530	DN20	PN50	threaded
	06531	DN20	PN50	threaded

*) maximum set pressures only for small sizes, pressure reduction for upper size range as per manufacturers data sheets

Temperature range: -196°C to +120°C for valves/strainers of 1.4308,

-255°C to +120°C for valves /strainers of 1.4409

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