



CERTIFICATE NUMBER: HG3096520-X

PORT OFFICE: Hamburg/Germany

Certificate of MANUFACTURING ASSESSMENT

This is to certify that: The Undersigned did evaluate the relevant manufacturing quality procedures for the type of products of the manufacturer:

HEROSE GMBH Plant at Bad Oldesloe, Germany

The methods of assuring and controlling quality during production as required by the ABS Rules or Guides for the product and the associated specifications or standard were verified to reflect the specific surveys, required by the Rules and Standards for the manufacture of:

Cryogenic Valves with ABS Product Design Assessment

The manufacturer presented a sample or specimen of the product, representative of the "type" approved, to the undersigned, for the purpose of verifying that the "type" has been manufactured in conformance with the Manufacturer's Product Design Assessments.

This Certificate of Manufacturing Assessment is an evaluation of the manufacturer alone and is neither an approval nor a rejection of the product described above. Unless cancelled, expired or revoked, this certificate remains valid subject to annual audits

Consult the ABS Type Approval website to confirm the continued validity of this certificate and the status of the particular products being manufactured.

ISSUE DATE	8 March 2016	EXPIRATION DATE	7 March 2021
SURVEYOR	<i>Manfred Froehling</i>	8 March 2016	
FIRST ANNUAL ENDORSEMENT	<i>V. Heus</i>	15 February 2017	
SECOND ANNUAL ENDORSEMENT	<i>R-i-Galen</i>	15 February 2018	
THIRD ANNUAL ENDORSEMENT	<i>Gerhard H. Tork</i>	28 FEB-19	
FOURTH ANNUAL ENDORSEMENT	<i>Gerhard H. Tork</i>	25-FEB-20	

Note: This Certificate evidences compliance with one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping and is issued solely for the use of the Bureau, its committees, its clients or other authorized entities. This Certificate is a representation only that the structure, item of material, equipment, machinery or any other item covered by this Certificate has met one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping as of the date of issue. Parties are advised to review the Rules for the scope and conditions of classification and to review the survey records for a fuller description of any restrictions or limitation on the vessel's service or surveys. The validity, applicability and interpretation of this Certificate is governed by the Rules and standards of American Bureau of Shipping who shall remain the sole judge thereof. Nothing contained in this Certificate or in any notation made in contemplation of this Certificate shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warranty express or implied.