

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 LR Type Approval System.

This certificate is issued to:

PRODUCER	Böning Automationstechnologie GmbH & Co. KG
PLACE OF PRODUCTION	Am Steenöver 4 27777 Ganderkesee Germany
DESCRIPTION	Decentralized bow thruster control and operation unit
TYPES	AHD 501 (control unit) and AHD 502 (operation unit)
APPLICATION	Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2, ENV3 (AHD 502) and ENV5 (AHD 501 front) as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 - 2002.
ADDITIONAL TESTS	Dry heat (70°C/16hrs) Low temperature (-25°C/16hrs)
DESIGN CODE	Manufacturer's specification.

"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. ETS 24035-10 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Certificate No.	10/20044
Issue Date	23 November 2010
Expiry Date	22 November 2015
Sheet	1 of 1


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