



CERTIFICATE NUMBER

11-LD748695-PDA

DATE

24 May 2011

ABS TECHNICAL OFFICE

London Engineering Department

CERTIFICATE OF DESIGN ASSESSMENT

This is to Certify that a representative of this Bureau did, at the request of
ELTORQUE AS - N-7125 VANVIKAN

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

PRODUCT: **Actuator, Electric for Valves**

MODEL: **QT250 1.0 & 2.0, QT 800 1.0 & 2.0, QT2500 1.0**

This Product Design Assessment (PDA) Certificate 11-LD748695-PDA, dated 24/May/2011 remains valid until 23/May/2016 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

AMERICAN BUREAU OF SHIPPING

Jean-Claude G. Dennemont
Engineer

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by the terms and conditions as contained in ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

ELTORQUE AS

LYNG INDUSTRIAL PARK

N-7125 VANVIKAN

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Product: Actuator, Electric for Valves

Model: QT250 1.0 & 2.0, QT 800 1.0 & 2.0, QT2500 1.0

Intended Service:

Marine and offshore applications - actuation of quarter turn butterfly and ball valves

Description:

Actuators for quarter turn butterfly and ball valves with options for digital, analogue and fieldbus control and signalling and fixed hand wheel for manual operation.

Ratings:

QT250, 50-250nm, 230V AC 50/60Hz, 1A, max 100W, stby 20W, IP68, -25C to 55C (black), -25C to +70C (silver)
QT800, 250-800nm 230V AC 50/60Hz, 1A, max 100W, stby 20W, IP68, -25C to 55C (black), -25C to +70C (silver)
QT2500, 800-2500nm, 110-240V AC/DC 4A(110V), 2A(240V), max 200W, stby 25W, IP68, -25C to +55C (black)

Service Restrictions:

Unit Certification is not required for this product.

Comments:

Not Applicable

Notes / Drawings / Documentation:

DNV Test Report 2005-3200 Rev 01, Environmental Testing of QT250
DNV Test Report 2005-3296 Rev 01, Vibration and IP Testing of QT800
EMC SofC HF052702 reference Test Report NEMKO 43316
EMC Test Report NEMKO 10122.03
High Voltage Testing NEMKO SofC 175904

Term of Validity:

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STANDARDS

ABS Rules:

2011 Steel Vessel Rules 1-1-4/7.7, 4-8-3/1.11, 4-9-7/Table 9

National:

NA

International:

IACS UR E10 Rev5:2006

Government Authority:

NA

