



CERTIFICATE NUMBER

02-LD280664/1-PDA

DATE

03 July 2007

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

Controlmatica Zap-Pnefal Sp. z o.o.

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. It will remain valid as noted below or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Float Type Level Switch

MODEL: Types ERH-01-06 to ERH-04-06, ERH-01-07 to ERH-04-07 and ERH-01-07K to ERH-04-07K

ABS RULE: 2007 Steel Vessel Rules Section 1-1-4/7.7 and 4-9-7/13.1

OTHER STANDARD:

AMERICAN BUREAU OF SHIPPING

Jean-Claude G. Dennemont

Engineering Type Approval Co-ordinator

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MA Certificate No. GD466530-X

Product: Float Type Level Switch

Model: Types ERH-01-06 to ERH-04-06, ERH-01-07 to ERH-04-07 and ERH-01-07K to ERH-04-07K

Intended Service:

Control or alarm for liquid level indication in tanks on ships

Description:

Magnetic type float switches

Ratings:

ERH-01-06 to ERH-04-06
Power Supply: 400V AC & 230V AC
Measuring range: 10-1.350 mm
Enclosure Protection: IP 66
Maximum liquid temperature: 250°C
Minimum liquid density: 0.6 g/cm³

ERH-01-07(K) to ERH-04-07(K)

Power Supply: 24V DC
Measuring range: 10-1.350 mm
Enclosure Protection: IP 68
Maximum liquid temperature: 70°C
Minimum liquid density: 0.6 g/cm³

Service Restrictions:

Not suitable for reactive agents such as HCl, Hydrofluoric acid, Sodium hypochlorite or NaClO solutions. The manufacturer should be contacted regarding suitability for chemical products. The Unit Certification is not required for this product.

Comments:

Not Applicable

Notes/Documentation:

This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

Term of Validity:

This Design Assessment Certificate number 02-LD280664/1-PDA, dated 03/Jul/2007 will expire on 02/Jul/2012 or at an earlier date should there be alterations to the product's design or changes to the referenced ABS Rules and other specifications, which affect the product. Product use on or after 1 January 2008, will be subject to compliance with the ABS Rules or specifications in effect when the vessel, MODU or facility is contracted. The product's acceptability on board ABS-classed vessels or facilities is defined in the service restrictions of this certificate.

STANDARDS

ABS Rules:

2007 Steel Vessel Rules Section 1-1-4/7.7 and 4-9-7/13.1

