



CERTIFICATE NUMBER

09-LD463991-PDA

DATE

13 July 2009

ABS TECHNICAL OFFICE

London Engineering Services

CERTIFICATE OF Design Assessment

This is to Certify that a representative of this Bureau did, at the request of
PEPPERS CABLE GLANDS LTD

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: Cable, Glands and Accessories

MODEL: CR-****, E****F*, D****F, C****E*, A*L*F, A*LDS*F, A*LCF*F, E8X*F, D8X*F, A8*F, C**L***, E*****, A*L*

ABS RULE: Steel Vessel Rules 2009 1-1-4/7.7, 4-8-3/1.7, 4-8-3/13, 4-8-4/27.5, MODU Rules 2008 4-3-3/9

OTHER STANDARD EN 60079-0,-1,-7; EN 61241-0,-1 (excluding C**L***, E*****, A*L*), CSA 22.2 (excluding E8X*F, D8X*F, C**L***, E*****, A*L*), BS6121-1:1989, EN50262:1999 (C**L***, E*****, A*L* only); IEC 60079-0,-1,-7; IEC 61241-0,-1 (excluding C**L***, E*****, A*L*); N/A

AMERICAN BUREAU OF SHIPPING

Jean-Claude G. Dennemont
Engineering Type Approval Co-ordinator

PEPPERS CABLE GLANDS LTD

STANHOPE ROAD
CAMBERLEY
GU15 3BT
United Kingdom
Telephone: 44-(0)1276-64232
Fax: 44-(0)1276-691752

Product: Cable, Glands and Accessories

Model: CR-****, E****F*, D****F, C****E*, A*L*F, A*LDS*F, A*LCF*F, E8X*F, D8X*F, A8*F, C**L***, E*****, A*L*

Intended Service:

Cable glands certified for use with all types of unarmoured, armoured, braided and screened cable; For use in safe and/or hazardous locations on ships and offshore units.

Description:

A range of elastomeric seal cable glands for use in hazardous locations found within oil, gas, petrochemical and marine installations. The products carry global certification and are used for the termination of cable into electrical installations offering types Exd, Exe, Ex nR and Ex tD A21 methods of protections. Manufactured in brass, stainless steel and aluminium and available with all common threadforms including metric and NPT.

Ratings:

Not Applicable

Service Restrictions:

Unit Certification is not required for this product.

Comments:

The component marking is to include the Code such as Ex d IIC, Ex tD A21 IP6X as applicable. The gland is to be assembled in accordance with the fitting instructions supplied with each gland. Applicable class of the hazardous location is to be in accordance with the Certificate to cover the gland.

Notes / Drawings / 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.

IECEX Test Reports SIR 05.0020X, 07.0096X/97X/99X, ATEX Test Reports BAS 01ATEX2271X, Sira 01ATEX1270X/1271X/1272X, CSA International Certificate 1356011

Term of Validity:

This product/model is covered under Product Design Assessment (PDA) Certificate # 09-LD463991-PDA, dated 13/Jul/2009. This PDA Certificate expires 12/Jul/2014. It will remain valid for 5 years from date of issue or until the Rules or specifications used in the assessment are revised (whichever occurs first). It is valid for all vessels contracted on or before the date of the Rules used in this evaluation.

STANDARDS

ABS Rules:

Steel Vessel Rules 2009 1-1-4/7.7, 4-8-3/1.7, 4-8-3/13, 4-8-4/27.5, MODU Rules 2008 4-3-3/9

National:

EN 60079-0,-1,-7; EN 61241-0,-1 (excluding C**L***, E*****, A*L*), CSA 22.2 (excluding E8X*F, D8X*F, C**L***, E*****, A*L*), BS6121-1:1989, EN50262:1999 (C**L***, E*****, A*L* only)

International:

IEC 60079-0,-1,-7; IEC 61241-0,-1 (excluding C**L***, E*****, A*L*)

Government Authority:

N/A



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EUMED:

N/A



Others:

N/A