



CERTIFICATE NUMBER

DATE

14-LD463991-1-PDA

30 July 2014

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
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.

PRODUCT: **Cable, Glands and Accessories**

MODEL: **CR***, CRD**, CRO***, E****F*, D****F, C****E*, A*L**, A*LDS**, A*RDC**, A*RDF**, A*RDM**, A*LC***, A*RC***, A8*F, A8C**F, E8X*F, D8X*F, C**L***, E*****, A*L***

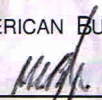
This Product Design Assessment (PDA) Certificate 14-LD463991-1-PDA, dated 30/Jul/2014 remains valid until 29/Jul/2019 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

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


Malcolm O'Barraclough

Engineer

AB258(01/10)

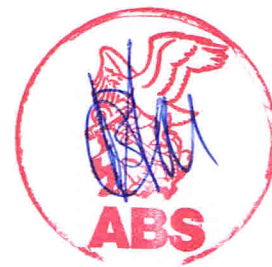
NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned manufacturing process 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 Rule 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

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 application/certificate is governed by the "Terms and Conditions of the Request for Product Type Approval and Agreement" as contained in the ABS Rules.

AB258(07/13)

PEPPERS CABLE GLANDS LTD

STANHOPE ROAD
CAMBERLEY
GU15 3BT
United Kingdom
Telephone: 44-(0)1276-64232
Fax: 44-(0)1276-691752
Email: admin@peppers.co.uk
Web: www.cableglands.com



MA Certificate No. 14-SO2668642-X1 **Tier:** 3

Product: Cable, Glands and Accessories

Model: CR***, CRD**, CRO***, E****F*, D****F, C****E*, A*L**, A*LDS**, A*RDC**, A*RDF**, A*RDM**, A*LC***, A*RC***, A8*F, A8C**F, E8X*F, D8X*F, C**L***, E****, A*L*

Intended Service:

ABS Classed Vessels and Offshore Facilities in accordance with the listed ABS Rules.

Description:

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.

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 ta 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. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments:

The component marking is to include the Code such as Ex d IIC, Ex ta 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.

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. Installation and maintenance/repair procedures are to be strictly in accordance with manufacturer instructions.

ATEX certified equipment is not to be installed in hazardous areas on U.S. vessels unless it can be proven to have been tested to the applicable IEC 60079 series standards by an independent laboratory accepted by the U.S Coast Guard. USCG MI Notice 01-12 (February 7, 2012) refers.

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.

Installation and maintenance/repair procedures are to be strictly in accordance with manufacturer instructions. The component marking is to include the Code as applicable. The gland is to be assembled strictly 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.

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 Design Assessment (PDA) Certificate 14-LD1183401-1-PDA, dated 30/Jul/2014 remains valid until 30/Jul/2019 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PEPPERS CABLE GLANDS LTD

STANHOPE ROAD
CAMBERLEY
GU15 3BT
United Kingdom
Telephone: 44-(0)1276-64232
Fax: 44-(0)1276-691752
Email: admin@peppers.co.uk
Web: www.cableglands.com



MA Certificate No. 14-SO2668642-X1 **Tier: 3**

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.

STANDARDS

ABS Rules:

The Rules applicable to this assessment are:

- Steel Vessel Rules (2014) 1-1-4/7.7, 1-1-Appendix 3 and 4, 4-8-3/1.7, 4-8-3/13, 4-8-4/27.5.
- Steel Vessels Under 90 Meters (295 Feet) in Length (2014) 1-14/7.7, 1-1-A 3 and 4, 4-6-3/11, 4-6-3/1.5
- Facilities on Offshore Installations (2014) 1-1-4/9.7, 1-1-A 2 and 3.
- Offshore Support Vessels (2014) 1-1-4/7.7, 1-1-A 3 and 4, 4-8-3/1.7, 4-8-3/13, 4-8-4/29.5
- Mobile Offshore Drilling Units Rules (2014) 1-1-4/9.7, 1-1-A 2 and 3, 4-3-3/9.

National:

EN 60079-0, EN 60079-1 (excluding C****E* & CRO***), EN 60079-7, EN 60079-15, (excluding C****E* & CRO***), EN 60079-31 & EN 60529, CSA 22.2 (excluding A8*F, A8C**F, E8X*F, D8X*F), BS6121-1:1989, EN50262:1999 (C**L***, E*****, A*L* only).

International:

IEC 60079-0, IEC 60079-1 (excluding C****E* & CRO***), IEC 60079-7, IEC 60079-15, (excluding C****E* & CRO***), IEC 60079-31 & IEC 60529, CSA 22.2 (excluding A8*F, A8C**F, E8X*F, D8X*F)

Government Authority:

N/A

EUMED:

N/A

Others:

N/A