



CERTIFICATE NUMBER
14-LD234401A-4-PDA

DATE
20 Oct 2014

ABS TECHNICAL OFFICE
No office Found

CERTIFICATE OF DESIGN ASSESSMENT

This is to certify that a representative of this Bureau did, at the request of
CMP PRODUCTS 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: **A2F, A2FFC, D3CDS, E**series, PX** series, MCA, SS2K, SS2K/PB, T3CDS, T3CDS/PB, TE1FU, TMC, TMCX**

This Product Design Assessment (PDA) Certificate 14-LD234401A-4-PDA, dated 20/Oct/2014 remains valid until 19/Oct/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

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).

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Tier: 3 - Type Approved, unit certification not required TC**Product:** Cable, Glands and Accessories**Model:** A2F, A2FFC, D3CDS, E**series, PX** series, MCA, SS2K, SS2K/PB, T3CDS, T3CDS/PB, TE1FU, TMC, TMCX**Intended Service:**

ABS Classed Vessels and Offshore Facilities in accordance with the listed ABS Rules and International/National standards.

Description:

Cable Glands and connectors of Certified-Safe Type, Models A2F, A2FFC, D3CDS, E1FU, E1FW, E1FX, E2FU, E2FW, E2FX, PX2K, MCA, PX2KPB, PX2KWPB, PX2KX, PX2KXPB, PXB2KX, PXRC, PXSS2K, PX2KW, PX2K KIT, SS2K, SS2K/PB, TRITON-T3CDS, T3CDS/PB, TMC, TMCX

Rating:

Not applicable

Service Restriction:

Unit Certification is not required for this product.

Comments:

The component marking is to include the Code such as Ex de IIC, Ex d IIC or Ex e II 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.

For NEC installations, marine shipboard cable may be used instead of rigid conduit, if installed fittings are approved for the specific hazardous location and cable type.

Explosion Proof and Flameproof equipment - Explosion Proof equipment must be approved as meeting UL 2225.

Flameproof equipment must be approved as meeting IEC 60079-1.

All electrical equipment intended for installation in hazardous areas is to be of a certified safe type based on the class of the hazardous area at its location of installation. Certificates in this regard are to be presented to the ABS Surveyor for verification on a case by case basis.

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Notes/Drawing/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.

Certificates:

A2F, A2FFC: IECEX SIR 13.0023X, CSA 1211841; D3CDS: sira 00ATEX1148X, CSA 1310517; E*: IECEX SIR 13.0026X, CSA 1310517;

PX: IECEX SIR 13.0027X, CSA 2288626; SS2K: IECEX SIR 13.0024X, CSA 1211841; T3CDS : IECEX SIR 13.0028X, CSA 1310517; TMCX : IECEX SIR 07.0083X, Sira 07ATEX1122X, CSA 1129339.

Test Reports:

IECEX test report: GB_SIR_EXTR 13.0066/00, CSA 1211841- Ed 10, CSA 1310517- Ed 9, CSA 2288626- Ed 4, CSA 1129339 -Ed 9

Terms of Validity:

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This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence

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STANDARDS

ABS Rules:

- Steel Vesels (2014) 1-1-4/7.7, 1-1-Appendix 3 & 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) 1-1-4/7.7, 1-1-Appendix 3 & 4, 4-6-1/11, 4-6-3/11.1
- Mobile Offshore Drilling Units (2014) 1-1-4/9.7, 1-1-Appendix 3 & 4, 4-3-1/, 4-3-3/9.1
- Offshore Support Vessels (2014) 1-1-4/7.7, 1-1-Appendix 3 & 4, 4-8-3/1.7, 4-8-3/13, 4-8-4/29.5
- High-Speed Craft (2014) 1-1-4/11.9, 1-1-Appendix 2 & 3, 4-8-3/1.7, 4-6-3/9.1
- Aluminum Vessels (1975) 1-1-4/7.7, 1-1-Appendix 3 & 4

National:

BS 6121, BS EN 62444:2013, BS EN 60079-0 :2006, 1:2007, 7:2007 (except TMC, TMCX), BS EN 60079-0 :2006, 1:2004, 7:2003 (TMC, TMCX); C22.2 (except PXRC); UL 2225 (PX2K, PX2KPB, PX2KWPB, PX2KX, PX2KXPB, PX2KW, PXSS2K, TMCX)

International:

IEC 60079-0, IEC 60079-1 , IEC 60079-7, IEC 60079-15, IEC 60079-31 and IEEE Std 45 Sec 33.

Government:

NA

EUMED:

NA

OTHERS: TC

NA