



CERTIFICATE NUMBER	20-LD1948801-PDA
EFFECTIVE DATE	12-Feb-2020
EXPIRY DATE	11-Feb-2025
ABS TECHNICAL OFFICE	London Engineering Department

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

CMP PRODUCTS LTD.

located at

**36 NELSON WAY, NELSON PARK EAST, CRAMLINGTON, United
Kingdom, NE23 1WH**

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, Eseries, PX** series, MCA, SS2K, SS2K/PB, T3CDS, T3CDS/PB, TE1FU, TMC, TMCX**

This Product Design Assessment (PDA) Certificate remains valid until 11/Feb/2025 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

Theodoros Chatzigiakaidas, Engineer/Consultant

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 ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

CMP PRODUCTS LTD.

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Web: www.cmp-products.com

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:

Conqueror: 316L Stainless Steel & Low Smoke & Fume (LSF), Zero Halogen (LS0H) Liners, 172kA peak fault current

Cyclone I: 5000 Series Aluminium, 316L Stainless Steel Strap & Low Smoke & Fume (LSF), Zero Halogen (LS0H) Liners, 131kA peak fault current

Cyclone II: 316L Stainless Steel & Low Smoke & Fume (LSF), Zero Halogen (LS0H) Liners, 156kA peak fault current

Cyclone III: 316L Stainless Steel & Low Smoke & Fume (LSF), Zero Halogen (LS0H) Liners, 180kA peak fault current

Falcon: Nylon, V0 nylon & LUL approved polymer 110kA peak fault current (parallel formation)

Patriot: 316L Stainless Steel & Low Smoke & Fume (LSF), Zero Halogen (LS0H) Liners, 141kA peak fault current

Sabre: Nylon, V0 nylon & LUL approved polymer 68kA

Sovereign: 316L Stainless Steel & Low Smoke & Fume (LSF), Zero Halogen (LS0H) Liners, 190kA peak fault current

Valiant: High pressure die cast aluminium, 90kA peak fault current

Zenith: High pressure die cast aluminium, 102kA peak fault current (multicore cable) / 130kA peak fault current (parallel formation)

Service Restriction:

Unit Certification is not required for this product.

Comments:

The component marking is to include the Code such as Ex db IIC, Ex eb IIC or Ex eb 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 are 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 and any specific instructions regarding installation are to be adhered to.

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

Notes/Drawing/Documentation:

Drawing No. CMP_A2F A2FRC A2E A2FFC - CML 18ATEX1321X Iss.0, ATEX Certification, Revision: -, Pages: -

Drawing No. CMP_A2F A2FRC A2E A2FFC Ex nR - CML 18ATEX4313X Iss.0, ATEX Certification, Revision: -, Pages: -

Pages: -

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Drawing No. CMP_E Type - CML 18ATEX1324X Iss.0, ATEX Certification, Revision: -, Pages: -
Drawing No. CMP_E Type Ex nR - CML 18ATEX4316X - BV Iss.0, ATEX Certification, Revision: -, Pages: -
Drawing No. CMP_PX2K PXRC PXSS2K - CML 18ATEX1325X Issue 0, ATEX Certification, Revision: -, Pages: -
Drawing No. CMP_PX2K PXRC PXSS2K Ex nR - CML 18ATEX4317X Issue 0, ATEX Certification, Revision: -, Pages: -
Drawing No. CMP_SS2K - CML 18ATEX1322X Iss.0, ATEX Certification, Revision: -, Pages: -
Drawing No. CMP_SS2K Ex nR - CML 18ATEX4314X Iss.0, ATEX Certification, Revision: -, Pages: -
Drawing No. CMP_T3CDS TE1FU Ex nR - CML 18ATEX4318X Iss.0, ATEX Certification, Revision: -, Pages: -
Drawing No. CMP_T3CDS TE1FU - CML 18ATEX1326X Iss.0, ATEX Certification, Revision: -, Pages: -
Drawing No. CMP_TMC TMCX - CML 18ATEX1337X Iss.0, ATEX Certification, Revision: -, Pages: -
Drawing No. GB_CML_ExTR18.0255, Cable Gland Types E** Certification, Revision: -, Pages: -
Drawing No. GB_CML_ExTR19.0038_00, Evaluation Report Type, PX** Cable Glands, Revision: -, Pages: -
Drawing No. GB_CML_ExTR19.0052, Transfer of Cable Glands, Thread Adaptors and Breathing/Draining Devices, Revision: -, Pages: -
Drawing No. GB_SIR_EXTR07.0105_00, TMC Range of Cable Glands, Revision: -, Pages: -
Drawing No. GB_SIR_EXTR07.0115, IECEX Ex TEST REPORT COVER, Revision: -, Pages: -
Drawing No. GB_SIR_EXTR14.0162_00, Variation to IECx and ATEX certificate numbers, Revision: -, Pages: -
Drawing No. GB_SIR_EXTR14.0282_00, Variation to IECx and ATEX certificate numbers, Revision: -, Pages: -
Drawing No. GB_SIR_EXTR14.0307_00, Variation to IECx and ATEX certificate numbers, Revision: -, Pages: -
Drawing No. GB_SIR_ExTR16.0255, Variation to certificate numbers IECEX SIR 07.0083X and SIRA 07ATEX1122X, Revision: -, Pages: -
Drawing No. GB_SIR_ExTR16.0018, IECEX and ATEX Certification, Revision: -, Pages: -
Drawing No. IECEX CML 18.0178X, Cable Gland Types SS2K**, Revision: -, Pages: -
Drawing No. IECEX CML 18.0179X, Cable Gland Types A**, Revision: -, Pages: -
Drawing No. IECEX CML 18.0181X, Cable Gland Types E**, Revision: -, Pages: -
Drawing No. IECEX CML 18.0182X, Type PX** Cable Glands, Revision: -, Pages: -
Drawing No. IECEX CML 18.0183X, Cable Gland Types Triton T3** and TE**, Revision: -, Pages: -
Drawing No. IECEX CML 18.0184X, TMCX and TMC Ranges of Cable Glands, Revision: -, Pages: -

The following documentation is valid from the previous iteration of the PDA Certificate.

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:

IEC 61914 Test Reports, CMP, 1-Mar-2016
IECEX test report: GB_SIR_EXTR 13.0066/00, Sira, Date: April 2013
CSA 1211841- Ed 10, CSA, Date: 6-Jun-2013;
CSA 1310517- Ed 9, CSA, Date: 3-Jun-2013;
CSA 2288626- Ed 4, CSA, Date: 3-Jun-2013;
CSA 1129339 -Ed 9, CSA, Date: 21-Jul-2006;

Terms of Validity:

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Rules and Standards.

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STANDARDS

ABS Rules:

- Marine Vessels Rules (2020): 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-8-3/1.7, 4-8-3/13, 4-8-4/27.5
- Facilities on Offshore Installations (2020): 1-1-4/9.7, 1-1-A2, 1-1-A3
- Mobile Offshore Units (2020): 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-1-1/7.9, 4-3-1/11, 6-1-1/9, 6-1-1/13;
- Steel Vessels for Service on Rivers and Intracoastal Waterways (2020): 1-1-4/7.7, 1-1-A3, 1-1-A4
- High Speed Crafts (2020): 1-1-4/11.9, 1-1-A2, 1-1-A3
- Steel Barge Rules (2020): 1-1-4/7.9, 1-1-A3, 1-1-&A4

National:

BS 6121,
BS EN 62444:2013,
BS EN 60079-0 :2017,
BS EN 60079-1:2014,
BS EN 60079-7:2015 (except TMC, TMCX),
C22.2 (except PXRC);
UL 2225 (PX2K, PX2KPB, PX2KWPB, PX2KX, PX2KXPB, PX2KW, PXSS2K, TMCX)

International:

IEC 60079-0:2017,
IEC 60079-1:2014,
IEC 60079-7:2015,
IEC 60079-15:2017,
IEC 60079-31:2013,
IEC 61914:2015,
IEEE Std 45:2015 Sec 33

Government:

NA

EUMED:

NA

OTHERS:

NA