



Certificate of Compliance

Certificate: 1003277 (200455)

Master Contract: 200455

Project: 70032099

Date Issued: 2015-08-18

Issued to: Ex Innovations T/A Raxton
Kingsway South
Westgate
Aldridge
West Midlands, WS9 8FS
UNITED KINGDOM
Attention: Amrik Garcha

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Issued by: *Thong Tong*
Thong Tong

PRODUCTS

CLASS - C441803 - CONDUIT FITTINGS-Fittings - For Hazardous Locations

CLASS - C441883 - CONDUIT FITTINGS-Fittings - For Hazardous Locations - Certified to US Standards

Ex d IIC

Class I Zone 1 AEx d IIC

Gland Adapters:

Material: Brass or Stainless Steel 316.

Thread form sizes: From 1/2" to 2,1/2" NPT x From M20 to M75. Male or Female within the limits of the certification drawing and report.

<u>Male Thread</u>	<u>Female Thread</u>
1/2" NPT	M20 x 1,5
3/4" NPT	M25 x 1,5
1" NPT	M32 x 1,5



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1,1/4" NPT	M40 x 1,5
1,1/2" NPT	M50 x 1,5
2" NPT	M63 x 1,5
2,1/2" NPT	M75 x 1,5

Alternate thread forms: NPT x PG, NPT x BSP (Tapered or Parallel), Male or Female within the limits of the certification drawing and report. These threads forms shall not bear the "US" indicator and the "AEx d" symbol.

NPT Threads Other Thread Forms

1/2" NPT	PG11	or	1/2" BSP
3/4" NPT	PG16	or	3/4" BSP
1" NPT	PG21	or	1" BSP
1,1/4" NPT	PG29	or	1,1/4" BSP
1,1/2" NPT	PG36	or	1,1/2" BSP
2" NPT	PG42	or	2" BSP
2,1/2" NPT	PG48	or	2,1/2" BSP

Gland Reducers:

Material: Brass or Stainless Steel 316.

Thread form sizes: From 1/2 in to 2,1/2 in NPT x From M16 to M63. External or Internal within the limits of the certification drawing and report. Pitch for all metric fittings is 1.5, and to be of medium fit or better.

<u>External Thread</u>	<u>Internal Thread</u>
1/2" NPT	M16 x 1,5
3/4" NPT	M20 x 1,5
1" NPT	M25 x 1,5
1,1/4" NPT	M32 x 1,5
1,1/2" NPT	M40 x 1,5
2" NPT	M50 x 1,5
2,1/2" NPT	M63 x 1,5

Alternate thread forms: NPT x PG, NPT x BSP (Tapered or Parallel). External and Internal within the limits of the certification drawing and report. These threads forms shall not bear the "US" indicator and the "AEx d" symbol.

<u>NPT Thread</u>	<u>Other Thread Forms</u>
1/2" NPT	PG7
3/4" NPT	PG9 or 1/2" BSP
1" NPT	PG11 or 3/4" BSP
1,1/4" NPT	PG16 or 1" BSP
1,1/2" NPT	PG21 or 1,1/4" BSP
2" NPT	PG29 or 1,1/2" BSP



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2,1/2" NPT PG36 or 2" BSP

Hexagon Plug and Stopping Plug:

Thread form sizes: M20 x 1.5, M25 x 1.5, M32 x 1.5, M40 x 1.5, M50 x 1.5, M63 x 1.5, M75 x 1.5.
Material: Brass or Stainless Steel 316.

Alternate thread forms: PG7, PG9, PG11, PG13.5, PG16, PG21, PG29, PG36, PG42, and PG48.
BSP (Tapered or Parallel)- 1/2" BSP, 3/4" BSP, 1" BSP, 1.1/4" BSP, 1.1/2" BSP, 2" BSP, 2.1/2" BSP
These threads forms shall not bear the "US" indicator and the "AEx d" symbol.

Types CB 1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2" NPT RX Stopping Plugs, and Type CK 1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2" NPT Hex Head Plugs

NOTES:

Threaded joints shall comply with the requirements given in CAN/CSA-C22.2 No. 60079-1:11 and ANSI/ISA-60079-1, Tables 3 or 4.

APPLICABLE REQUIREMENTS

- | | |
|--------------------------------------|---|
| CAN/CSA-C22.2 No. 60079-0:11 | - Explosive atmospheres — Part 1: Equipment – General Requirements |
| CAN/CSA-C22.2 No. 60079-1:11 | - Explosive atmospheres — Part 1: Equipment protection by Flameproof enclosures “d” |
| C22.2 No. 30-M1986 (Reaffirmed 2012) | - Explosion-proof enclosures for use in class I hazardous locations |
| ANSI/ISA-60079-0 | - Explosive atmospheres — Part 1: Equipment – General Requirements |
| ANSI/ISA-60079-1 | - Explosive atmospheres — Part 1: Equipment protection by Flameproof enclosures “d” |

MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.



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See sample drawing CK&CB Marking (Held in Documentum)

Nameplate adhesive label material approval information: **Not Applicable**

Permanently laser engraved, die stamped, etched, or rolled stamped on each service surface of the component.

1. Submitter's name
2. Part designation including size
3. Hazardous location designation
4. CSA mark
5. Certificate number: 1003277U

Note: Marking is permitted to be on literature where insufficient space is available.



Supplement to Certificate of Compliance

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*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
70032099	2015-08-18	Update Existing Report 1003277 (LR 105591) to add the NPT version of Hexagon Plugs and Stopping Plugs and update drawings as needed.