# **EU-Type Examination Certificate**





# 1 EU-TYPE EXAMINATION CERTIFICATE

- 2. Component Intended for use on/in an Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 3. EU-Type Examination Certificate Number: ITS14ATEX37951U Issue 1
- 4. **Product:** Range of Increased Safety Enclosures
- 5. Manufacturer: Purge Solutions, Inc.
- 6. Address: 592 Avenue E 1/2, Alvin, Texas 77511 USA
- 7. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- 8. Intertek Testing and Certification Limited, Notified Body number 0359 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of the product intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Intertek Report 102901472CHE-001 dated June 2017.

- **9.** Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012 + A11:2013, EN 60079-7:2015 and EN 60079-31:2014 except in respect of those requirements referred to at item 16 of the Schedule.
- **10.** The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment of protective system.
- **11.** This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- 12. The marking of the product shall include the following:-
  - 3

II 2 G Ex eb IIC Gb D Ex tb IIIC Db IP66 -40°C ≤ Ta ≤ 80°C

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### EU-TYPE EXAMINATION CERTIFICATE NUMBER ITS14ATEX37951U Issue 1

#### 13. Description of Component

The range of increased safety enclosures are cabinets with hinged and clamped doors closed by stainless steel screwed clamps that can be manufactured in any size required, in a range of materials. In order to maintain the IP rating the clamps have a maximum distance apart of 355.6 mm. The maximum distance from the centre of the hinge/clamp to the corner of the enclosure is 101.6 mm. The enclosure can be fitted with an optional internal mounting plate if required and has both internal and external earthing points. The enclosures utilise a single piece gasket made from a medium density silicone that is fixed to the door of the enclosure with adhesive.

Only suitably certified Ex eb IIC Gb and Ex to IIIC Db IP66 cable glands, blanking elements and adaptors with appropriate temperature ranges are to be used to seal entries into the enclosure.

#### 14. Report Number

Intertek Report Ref: 102901472CHE-001 dated June 2017.

### 15. Conditions of Certification

- (a). Schedule of Limitations
  - Entries into the enclosure can be drilled by the end user within the constraints of the table found on page 8 of the user manual. The structural integrity of the enclosure between entries into the enclosure must be maintained and verified.
  - Clause 7.4.3 of IEC 60079-0 6th Edition regarding the avoidance of a build-up of electrostatic charge on equipment for Group III has not been addressed as part of this certification and must be addressed as part of the equipment certification.
  - The service temperature (maximum operating temperature) of the gasket is -40°C to +80°C and shall not be exceeded.
- (b). Conditions of Manufacture Routine Tests
  - None.

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## SCHEDULE

## EU-TYPE EXAMINATION CERTIFICATE NUMBER ITS14ATEX37951U Issue 1

### 16. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report Ref: 102901472CHE-001 Dated: June 2017

### 17. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
ATEX AND IECEX LABEL INCREASED SAFETY	SM-10009-D	D	25/OCT/13
ENCLOSURES			
CLAMP & GASKET COMPRESSION DETAILS	SM-10010-A	A	12/DEC/13
INCREASED SAFTEY ENCLOSURES			
GLAND PLATE DETAILS INCREASED SAFTEY	MM-11270-A	A	11/FEB/17
ENCLOSURES			
4 SIDE CLAMP / HINGE DOOR DETAIL INCREASED	SM-10005-F	F	15/OCT/13
SAFETY ENCLOSURE			
USERS MANUAL INCREASED SAFTEY ENCLOSURES	DO-11209-H	Н	07-Aug-14
(pages 5, 6, 8 and 9)			

### 18. Details of Certificate Changes Issue 1

Replace the existing design entirely with a new enclosure design which includes use of a joined strip gasket as an alternative gasket material, increase distance from edge of door to centre of clamp to 4.0 inches (101.6 mm), increase the centre to centre distance of clamps to 14.0 inches (355.6 mm), permit the use of a gland plate updates the applied standards from EN 60079-7:2007 & IEC 60079-31:2009 to EN 60079-7:2015 and EN 60079-31:2014.

Drawings and Documents section has been completely replaced by this change, complete documents list is as detailed in Section 17.

Original report Intertek Ref: 101455667MAN-001b Dated: August 2014

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