

1 **ATEX CAT 3 Conformity Certificate**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: ExVeritas 19ATEX0446X Issue: 2

4 Equipment: CYCLOPS Z Purge Indicators PSCZ - a - b - c - d - e

5 Manufacturer: Purge Solutions, Inc.

6 Address: 592 Avenue E 1/2, Alvin, Texas 77511 United States of America

7 This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to. The assessments are recorded in ExVeritas project file number EXV4370A.


8 The equipment has been assessed against the following Standards and found to comply:

EN IEC 60079-0:2018                      EN 60079-2:2014                      EN 60079-7:2015  
EN 60079-11:2012                      EN 60079-31:2014

9 If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

10 ExVeritas takes no responsibility for the validity of any information or data supplied by the manufacturer on which parts of the assessment may be based upon.

11 The marking of the equipment shall include the following:

 II 3G Ex ec ic [pzc] IIC T6 Gc -40°C ≤ Ta ≤ +65°C  
II 3D Ex ic [pzc] tc IIIC T79°C Dc -40°C ≤ Ta ≤ +65°C



No. 8613

On behalf of ExVeritas



S Clarke CEng MSc FIET  
Managing Director

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## Schedule

### 12 Description of Equipment or Protective System

The CYCLOPS Z-Purge Indicators provide evidence of pressurization for a customer supplied enclosure with either leakage compensation or continuous dilution sources of protective gas. The unit comes in one casing style, which is available in either stainless steel or anodized aluminium, machined from bar stock.

The CYCLOPS Z-Purge Indicator monitors one pressure point and is flange mounted to the outer side wall of the enclosure it will be monitoring. All electrical and alarm connections to the CYCLOPS Z-Purge Indicator are made inside the purged enclosure.

Type Description:

PSCZ - a - b - c - d - e

a - Supply Voltage:

- 1: Normal Voltage 12 Vdc
- 2: Normal Voltage 24 Vdc
- 3: Normal Voltage 115 Vac
- 4: Normal Voltage 230 Vac

b - Indicator Material:

- A - Anodized 6061-T6 Aluminum Machined Round Stock
- S - 316 Stainless Steel Machined Round Stock

c - Maximum Enclosure Volume:

- 1 - Up to 25 Cubic Foot (708 litres)
- 2 - Up to 100 Cubic Foot (2,832 litres)
- 3 - Up to 200 Cubic Foot (5,663 litres)
- 4 - Up to 300 Cubic Foot (8,495 Litres)

d - Hazardous Area Type:

- G - Gas Hazardous Areas
- D - Dust Hazardous Areas

e - Alarm Contact Type:

- O - Normally Open
- C - Normally Closed

### 13 Descriptive Documents

#### 13.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
R1649/A/2	05/06/2019	0	<ul style="list-style-type: none"> <li>• Take over from DNV, reference certificate DNV 09 ATEX 52751X (Rev. 1). Updating of the ATEX Directive and standards standard EN 60079-15:2010 is replaced by the EN 60079-7:2015, where the protection concept "nA" is replaced by "ec" in accordance to the actual IEC concepts, the EN 60079-2 and IEC 60079-31 are updated to their new edition, IEC 60079-2:2014 and IEC 60079-31:2013 (EN 60079-31:2014).</li> </ul>
R3410/A/1	03/08/2021	1	<ul style="list-style-type: none"> <li>• Upgrade to EN IEC 60079-0:2018</li> </ul> Minor administrative changes to the General product information and manufacturer's technical documents.
R4370/A/1	03/05/2023	2	Evaluation to add new encapsulation options for the manufacturer.

Certificate: ExVeritas 19ATEX0446X

Issue 2

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### 13.2 Compliance Drawings:

Title:	Drawing No.:	Rev. Level:	Date:
CUSTOMER WIRING DIAGRAM CYCLOPS Y OR Z – PURGE INDICATOR	DO-11009-F	F	2002/08/04
CYCLOPS Z – PURGE INDICATOR IOM MANUAL	DO-11011-Y	Y	2021/05/12
CYCLOPS Z – Purge Indicator Checkout Sheet	DO-11031-J	J	2002/03/23
*GENERAL ASSEMBLY CYCLOPS Y&Z – PURGE INDICATOR	DO-11045-H	H	2023/04/13
PC BOARD SCHEMATICS CYCLOPS Y&Z – PURGE INDICATOR	EB-11021-C-1	C	2005/04/11
PC BOARD BARE CYCLOPS Y&Z – PURGE INDICATOR	EB-11021-C-2	C	2005/04/11
PC BOARD TRACE LAYOUT CYCLOPS Y&Z – PURGE INDICATOR	EB-11021-C-3	C	2005/04/11
PC BOARD GENERAL ASSEMBLY CYCLOPS Y&Z – PURGE INDICATOR	EB-11021-C-4	C	2005/04/11
PURGE SOLUTIONS ATEX, IECEx & UKEX CASING LABEL LAYOUT CYCLOPS Z – PURGE INDICATOR	MM-10002-M-1	M	2002/12/27

*Note: An \* is included before the title of documents that are new or revised.*

## 14 Conditions of Certification

### 14.1 Special Conditions for Safe Use

- When the purge indicator is used with a pressurized enclosure, the assembly shall be evaluated according to the requirements of IEC 60079-0, IEC 60079-2 and IEC 60079-31 (as applicable).
- The terminals blocks are approved as “ec” for Group II and “tc” for Group III, therefore, their installation compartment shall comply with the requirements of IEC 60079-7 and IEC 60079-31, as applicable.

### 14.2 Conditions for Use (Routine tests)

- Dielectric strength test according to document DO-11031-J to be performed in all units covered by this approval.

## 15 Essential Health and Safety Requirements

Essential Health and Safety Requirements are addressed by the standards listed in section 8 and where required the report listed in section 13.1