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The following is an extract from the above mentioned report issued by Intertek.

Product(s): 389 Flameproof Breather Drain

Class 1 Zone 1 AExe II AExtb Zone 21

Service Temperature Range: with Silicone O-Ring -60°C to +160°C; with Nitrile O-Ring -60°C to +80°C

Standard(s):

Explosive Atmospheres – Part 0 : Equipment – General Requirements

2011 Ed : 6 Rev 2013 (UL 60079-0) and 2011 Ed : 5 (CAN/CSA-C22.2 No. 60079-0 : 11)

UL Standard for Safety Electrical Apparatus for Explosive Gas Atmospheres Part 7 : Increased Safety 'e'

2008 Ed : 4 Rev 2009 (UL 60079-7) and 2012 Ed : 1 (CAN/CSA-C22.2 No. 60079-7 : 12)

Explosive Atmospheres – Part 31 : Equipment Dust Ignition Protection by Enclosure 't'

2009 Ed : 1 (ISA 60079-31) and 2012 Ed : 1 (CAN/CSA-C22.2 No. 60079-31 : 12)

Conduit, Tubing and Cable Fittings

2012 Ed : 6 Rev: 2014 (UL514B) and 2014 Ed : 2 (C22.2 No. 18.3-12)

Description:

The type 389 breather drain is designed to be fitted in an entry on the face of an AExe or AExtb enclosure to allow the enclosure to breathe and / or drain.

There are two sizes: M20 x 1.5mm pitch and M25 x 1.5mm pitch (or equivalent NPSM thread form).

The breather drain comprises a metallic body with a hexagonal head and threaded entry 10mm long minimum. In the bore of the body there is a press fit metallic sinter. The head of the breather drain has several drain holes passing behind the sinter. A Nitrile rubber or Silicone rubber O-Ring set in a groove at the shoulder of the male thread and hexagon body ensures efficient sealing to an associated enclosure.

The breather drain when fitted in the bottom face of the equipment is capable of meeting the requirements of IP66.

Conditions of Acceptability:

The products covered in this report are incomplete in construction features or limited in performance capabilities and are intended for use and evaluation in other products. Consideration should be given to the following when the component is used in or with another product.

1. The breather drain shall be mounted in the bottom face of a vertically mounted enclosure to ensure it is able to breathe and drain effectively.
2. The maximum operating temperature range of the breather drain when fitted with a Nitrile O-Ring is -60°C to +80°C
3. The maximum operating temperature range of the breather drain when fitted with a Silicone O-Ring is -60°C to +160°C.
4. Plain holes shall be no larger than 0.7mm above the major diameter of the breathing device thread and the device shall be secured with a locknut and optional locking washer.

A. Tindall – Technical Manager

4th January 2016

Signed:

