

CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION COMPONENT PER US REQUIREMENTS**
2. **Certificate No:** FM19US0201U
3. **Component:** 1010, 1110, 1014, 1114, 1016 and 1116 Series Housings
(Type Reference and Name)
4. **Name of Listing Company:** Pushna International Inc.
5. **Address of Listing Company:** 4151 Bluebonnet Drive
Stafford, TX 77477
6. The examination and test results are recorded in confidential report number:
3031933 dated 23rd June 2008
7. FM Approvals LLC, certifies that the component described has been found to comply with the following Approval standards and other documents:
FM Class 3600:2018, FM Class 3615:2018, FM Class 3616:2011, FM Class 3810:2005,
ANSI/NEMA 250:2014, ANSI/IEC 60529:2004
8. The sign 'U' placed after the certificate number indicates that this certificate must not be mistaken for a certificate for equipment or a protective system. This certificate may only be used as the basis for the certification of equipment or a protective system. This certificate is issued to the manufacturer also intended to be the holder of the equipment certificate which includes this component.
9. This certificate relates to the design, examination and testing of the component specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the component as examined, tested and Approved.

Certificate issued by:



J.E. Marquedant
VP, Manager - Electrical Systems

14 July 2020

Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
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10. Component Ratings:

Explosionproof for Class I, Division 1, Groups B, C and D; Dust-ignitionproof for Class II/III, Division 1, Groups E, F and G hazardous (classified) locations, indoors and outdoors (Type 4X, IP66/68) with an ambient temperature rating of -50°C (or -16°C) to +80°C (or +125°C). As permitted by the NEC, the product is also marked Class I Zone 1, IIB+H2 and Zone 21, Group IIIC.

11. The marking of the component shall include:

1010PWE Series:

Class I, Division 1, Groups B, C, D Ta = -50°C to +80°C, Type 4X, IP66/68
Class II/III, Division 1, Groups E, F, G Ta = -50°C to +80°C, Type 4X, IP66/68
Class I, Zone 1, IIB+H2 Ta = -50°C to +80°C, Type 4X, IP66/68
Zone 21, Group IIIC Ta = -50°C to +80°C, Type 4X, IP66/68

1110PWE Series:

Class I Division 1, Groups B, C, D Ta = -16°C to +80°C, IP66
Class II/III, Division 1, Groups E, F, G Ta = -16°C to +80°C, IP66
Class I, Zone 1, IIB+H2 Ta = -16°C to +80°C, IP66
Zone 21, Group IIIC Ta = -16°C to +80°C, IP66

1010PAE, 1014PSE, 1016PSE Series:

Class I Division 1, Groups B, C, D Ta = -50°C to +125°C, Type 4X, IP66/68
Class II/III,, Division 1, Groups E, F, G Ta = -50°C to +125°C, Type 4X, IP66/68
Class I, Zone 1, IIB+H2 Ta = -50°C to +125°C, Type 4X, IP66/68
Zone 21, Group IIIC Ta = -50°C to +125°C, Type 4X, IP66/68

1110PAE, 1114PSE, 1116PSE Series:

Class I, Division 1, Groups B, C, D Ta = -16°C to +125°C, IP66
Class II/III, Division 1, Groups E, F, G Ta = -16°C to +125°C, IP66
Class I, Zone 1, IIB+H2 Ta = -16°C to +125°C, IP66
Zone 21, Group IIIC Ta = -16°C to +125°C, IP66

12. **Description of Equipment:**

The 1010, 1110, 1014, 1114, 1016 and 1116 Series Housings consist of an assembly of a threaded blank cover and base. The base contains two openings that are available as either ½ inch-14 NPT, ¾ inch-14 NPT M20 x 1.5 mm or M24 x 1.5 mm. One opening is located in the side of the body while the other is located in the bottom of the body. The 1010 Series Housings are constructed of ADC-12 Aluminum Alloy that is either silver painted or blue epoxy-painted. The 1014 Series Housings are constructed of 304 Stainless Steel while the 1016 Series Housings are constructed of 316 Stainless Steel. The housing is provided with internal and external grounding facilities. An o-ring is provided between the cover and base for environmental protection. The installed o-ring material dictates the service temperature range of the enclosure. The housings have an approximate free internal volume of 140 cm³.

1010PAEa-b Housing.

a = Certifications H, M or BLANK.

b = Threaded entries 01, 02, 03, 04, 05, 06, 07, 08, 11, 12, 13, 14, 15, 16, 17 or 18.

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1110PAEa-b Housing.

a = Certifications H, M or BLANK.

b = Threaded entries 01, 02, 03, 04, 05, 06, 07, 08, 11, 12, 13, 14, 15, 16, 17 or 18.

1010PWEa-b Housing.

a = Certifications H, M or BLANK.

b = Threaded entries 01, 02, 03, 04, 05, 06, 07, 08, 11, 12, 13, 14, 15, 16, 17 or 18.

1110PWEa-b Housing.

a = Certifications H, M or BLANK.

b = Threaded entries 01, 02, 03, 04, 05, 06, 07, 08, 11, 12, 13, 14, 15, 16, 17 or 18.

101aPSEb-c Housing.

a = Material grade 4 or 6.

b = Certifications H, M or BLANK.

c = Threaded entries 01, 02, 03, 04, 05, 06, 07, 08, 11, 12, 13, 14, 15, 16, 17 or 18.

111aPSEb-c Housing.

a = Material grade 4 or 6.

b = Certifications H, M or BLANK.

c = Threaded entries 01, 02, 03, 04, 05, 06, 07, 08, 11, 12, 13, 14, 15, 16, 17 or 18.

13. Schedule of Limitations:

1. The flameproof joints are not intended to be repaired.
2. Oil-filled circuit-breakers and/or contactors are not permitted to be used within the enclosure.
3. Rotating machines, or other devices which create turbulence, are not permitted to be used within the enclosure.

4. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

5. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

6. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
23 rd June 2008	Original Issue.

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Member of the FM Global Group

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14 th July 2020	Supplement 2: Report Reference: PR451554 dated 14 th July 2020. Description of the Change: Addition of alternate Viton o-ring material, M24 thread and reintroduction of IP66 rating. Updated examination against FM 3616. Standards updated to the latest edition, where applicable. Certificate updated to the new format.
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