

EC-TYPE EXAMINATION CERTIFICATE



Component intended for use on/in equipment or protective system intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

EC-Type Examination Certificate Number: **DEMKO 03 ATEX 0303070U Rev. 0**

Component: **Type XJ Series Flameproof Enclosure**

Manufacturer: **Adalet/Scott Fetzer Co.**

Address: **4801 W. 150th Street, Cleveland, OH 44135 USA**

This Component and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

UL International Demko A/S, notified body number 0539 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to design and construction of components intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. **11NK11297**

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012 EN 60079-1:2007 EN 60079-31:2009

The sign "U" placed after the certificate number 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 or protective system.

This EC-Type examination certificate relates only to the design, examination and tests of the specified component in accordance with the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.

The marking of the component shall include the following:

II 2 G Ex d IIB+H₂ Gb

II 2 D Ex tb IIIC Db IP66

Certification Manager
Jan-Erik Storgaard

This is to certify that the Product(s) described herein has been investigated to the Standard(s) indicated on this Certificate, in accordance with the ATEX Equipment Certification Program Requirements. The certificate and test results obtained apply only to the Product(s) tested. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all Product(s) described herein to all applicable standards, specifications, requirements and Directives.

Date of issue: 2013-06-07

Notified Body

UL International Demko A/S, Ballerup 5A, 2750 Ballerup, Denmark
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Schedule

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Description of Component:

The XJ series of cast enclosures constructed of aluminium or 316 stainless steel for use with threaded covers, containing specifications for threaded conduit entries and other threaded entries for various sized auxiliary operators. The covers are flat and may also include a glass viewing window that is cemented and mechanically retained in place.

Type variants covered by the approval:

XJ
I

D
II

HX
III

6
IV

N4
V

I – Enclosure Material and type

XJ- Series Designation

II – Enclosure Cover

D, DF, DA, HA, HB, HC, K, KA, L, M, MA, MC, N6, N12, S, T, WH, WT, X, DFGC, DGC, HAGC, HBGC, HCGC, KGC, KAGC, LGC, MGC, MAGC, MCGC, NGC6, NGC12, TFGC, TGC, WHGC, WTGC, XGC,

III- Marking Designation

HX- (Class I, Groups B, C and D; Class I, Zone 1, IIB + H2)

IV – Enclosure Size

Blank- Standard

6 – 6 inch (only available on XJN and XJNGC)

12 – 12 inch (only available on XJN and XJNGC)

V-Environmental Designation

N4- Type 4 Rating

N4X – Type 4X Rating

Temperature range:

The ambient temperature range is -50°C to +100 °C for use with a silicone o-ring and a solid cover.

The ambient temperature range is -34°C to +100°C for use with a Nitrile Buna N o-ring and either Adaseal or Adaseal II.

Installation instructions:

No temperature tests were conducted as the enclosure is certified as an empty Ex component. The service temperature of the enclosures is based off the ambient temperature range of -50°C to +100°C for silicone o-rings. The service temperature of the enclosures with glass windows is based off the ambient temperature range of -34°C to +100°C for Nitrile Buna N o-rings, Adaseal window cement, and Adaseal II window cement.

Mounting instructions

Refer to "Instructions".

Routine Tests:

Routine tests according to Clause 16 EN60079-1 are required on the XJNGCHX6 and XJNGCHX12 enclosures using a pressure of 18.8 bar (273 PSI).

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Descriptive Documents

Project Report No.: 11NK11297 (Hazardous Location Testing)

Documents:

Description:

XJ_HX screw cover assembly outline specifications

Installation Sheet

External Earthing Assembly

Label for screw cover enclosures IIB+H2

Adaseal Sealing Cement

Document No.:

DS920M

DS690

18813

6815

7486

Rev. Level:

A

D

B

A

A

Date:

2013-06-04

2013-06-03

2000-08-23

2013-06-03

2013-06-04



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Schedule of limitations:

- For enclosure outline dimensions, conduit/cable layout, and conduit/cable drilling and tapping instructions, refer to supplied datasheet.
- The approval applies to equipment without cable glands. Only cable glands certified for protection types 'd', 'tb', and have an IP66 rating may be used.
- To minimize the risk of electrostatic charge, provisions shall be made for adequate grounding and equipment shall be installed in such a manner so that accidental discharge shall not occur.
- Refer to supplied enclosure drawing for conduit/cable entry locations and sizes. Additional copies may be obtained from the factory. Include the enclosure serial number with any request.
- Oil-filled circuit breakers and contactors shall not be used.
- Rotating machines, or other devices which create turbulence, shall not be incorporated.
- The Hazardous Location Solutions reducers shall not be used for the direct inter-connection of enclosures.
- Only one Hazardous Location Solutions reducer shall be used with any single cable entry on the associated equipment.
- All conduit sealing fittings must be certified as flameproof 'd', dust ignition protection 'tb', and have a minimum IP66 rating equal to the marking on the enclosure.
- All unused device openings must be fitted with a certified close-up plug with protection types 'd', 'tb', and have an IP66 rating.
- The content of the Ex component enclosure equipment may be placed in any arrangement provided that an area of at least 40% of each cross-sectional area remains free to permit unimpeded gas flow and therefore, unrestricted development of an explosion.
- Enclosures shall be installed to a flat rigid surface using the mounting means provided.
- The end user shall provide earthing/bonding means as necessary.

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Essential Health and Safety Requirements

Concerning ESR this Schedule verifies compliance with the Annex III of 94/9/EC directive only. The manufacturer's Declaration of Conformity declares compliance with other relevant requirements and Directives.

Additional information

The XJ series of enclosures has in addition passed the tests for Ingress Protection to IP 66 in accordance with EN60529: 1991/A1 2000.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.

